

Lafarge Road Marking, Inc.

**Voluntary Investigation and
Remediation Plan –
Semiannual Progress Report #1**

Former Lafarge Road Marking, Inc.
2675 North Martin Street, East Point, Georgia

April 30, 2015



Christopher Miller, PG
Project Geologist

Gregory Sitomer, PE
Associate Project Manager

Russell J. Dirienzo, LEP
Certified Project Manager/Principal in Charge

**Voluntary Investigation and
Remediation Plan –
Semiannual Progress Report #1**

Former Lafarge Road
Marking, Inc.
2675 North Martin Street
East Point, Georgia

Prepared for:
Lafarge Road Marking, Inc.

Prepared by:
ARCADIS U.S., Inc.
1000 Cobb Place Blvd.
Building 500-A
Kennesaw, Georgia
30144
Tel 770 428 9009
Fax 770 428 4004

Our Ref.:
HT212446.0015.00002

Date:
April 30, 2015

This document is intended only for the use of the individual or entity for which it was prepared and may contain information that is privileged, confidential and exempt from disclosure under applicable law. Any dissemination, distribution or copying of this document is strictly prohibited.



Professional Engineer/Geologist Certification

I certify that I am a qualified groundwater scientist who has received a baccalaureate or postgraduate degree in the natural sciences or engineering, and have sufficient training and experience in groundwater hydrology and related fields, as demonstrated by state registration and completion of accredited university courses, that enable me to make sound professional judgments regarding groundwater monitoring and contaminant fate and transport. I further certify that this report was prepared by me or by a subordinate working under my direction.

Christopher R. Miller

Christopher Miller, PG
Georgia Registration No. 2111

5/15/2015

Date

Former Lafarge Road Marking, Inc.
Facility Name

Voluntary Investigation and Remediation Plan Semiannual Progress Report #1
Document Title

Georgia EPD Consent Order EPD-VRP-009





The electronic copy of the Voluntary Investigation and Remediation Plan – Semiannual Progress Report #1 for the Former Lafarge Road Marking, Inc., in East Point, Georgia, is complete and identical to the paper copy. The data on the CD was scanned for viruses using ARCADIS' standard security software and, to the best of ARCADIS' knowledge, is virus free.

A handwritten signature in blue ink, appearing to read "CE Miller".

Christopher Miller, PG
Project Geologist

1. Introduction	1
2. Background	1
3. Constituents of Concern	3
3.1 Risk Reduction Standards	4
3.2 Delineation and Corrective Action Goals	5
4. Updated Conceptual Site Model	6
4.1 Topography	6
4.2 Geology	6
4.3 Hydrogeology	7
4.4 Migration Pathway Assessment and Potential Receptors	8
5. Source Assessment and Removal	10
5.1 Source Assessment	10
5.1 Source Removal	10
5.1.1 Waste Characterization Soil Samples	15
5.1.2 Confirmation Soil Samples	16
6. Remediation System Construction	17
6.1 Well Installations	17
6.2 Remediation System Installation	19
6.3 Remediation System Equipment	19
7. Remediation System Startup and Operation	21
7.1 Soil Vapor Extraction System	21
7.2 Vapor Emissions Treatment	22
7.3 Air Sparging System	22
7.4 Dual-Phase Extraction System	23
7.5 Recovery Well RW-8 Pump Test	23
8. Summary of Work Completed this Period	24
8.1 Groundwater Assessment	24

8.1.1	Groundwater Sampling Methodology	24
8.1.2	Groundwater Flow Data	25
8.1.3	Groundwater Sample Results	26
8.2	Soil Assessment	27
8.2.1	Soil Sampling Methodology	27
8.2.2	Soil Sampling Results	28
8.3	AS/SVE/DPE Remediation System Operation	28
8.3.1	Vapor Treatment System Modification	28
8.3.2	Dual-Phase Extraction System Modification	29
8.3.3	Operational Data Collection	29
8.3.4	Air Sparging/Soil Vapor Extraction	29
8.3.5	Dual-Phase Extraction	30
8.3.6	Mass Removal	31
8.4	Groundwater Recovery and Treatment System Operation	31
8.4.1	Groundwater Recovery and Treatment System	31
8.4.2	Groundwater Recovery and Treatment System Operation	32
8.4.3	Mass Removal	32
9.	Remediation Performance Monitoring for Groundwater	33
10.	Schedule	33
11.	Reporting	33
12.	References	35

Tables

Table 1	Well Construction and Groundwater Elevation Summary – November 2014
Table 2	Planned Sampling Table
Table 3a	Historical and Recent Groundwater Analytical Summary - Organics
Table 3b	Historical and Recent Groundwater Analytical Summary - Lead
Table 4a	Historical and Recent Soil Analytical Summary – Organics
Table 4b	Historical and Recent Soil Analytical Summary – Lead
Table 5	Vapor Treatment System Analytical Summary
Table 6a	Summary Groundwater Recovery and Treatment System Operation - 2014
Table 6b	Summary Groundwater Recovery and Treatment System Operation - 2015

Figures

Figure 1	Site Location Map
Figure 2	Site Layout
Figure 3	Remedial System Layout
Figure 4	Area of Influence Summary
Figure 5a	Upper Aquifer Zone Potentiometric Surface Elevations – November 2014
Figure 5b	Lower Aquifer Zone Potentiometric Surface Elevations – November 2014
Figure 6	Groundwater Summary – November 2014
Figure 7a	Soil Analytical Summary – Organics– January 2015 and Historical
Figure 7b	Soil Analytical Summary – Lead– January 2015 and Historical
Figure 8	VRP Project Milestone Schedule

Appendices

- A Risk Reduction Standards
- B Source Assessment and Removal Documentation
- C Laboratory Analytical Reports
- D Waste Manifests
- E Well Construction and Development, Logs
- F Record Drawings – System Installation
- G Recovery Well RW-8 – Pump Test
- H Well Purging and Sample Logs
- I Soil Boring Logs

1. Introduction

On behalf of Lafarge Road Marking Inc. (LRM), ARCADIS U.S., Inc. (ARCADIS) is submitting this Voluntary Investigation and Remediation Plan – Semiannual Progress Report #1 (Progress Report) to the Georgia Environmental Protection Division (EPD) for LRM's former road painting manufacturing facility (facility) located at 2675 North Martin Street in East Point, Georgia (site). Although the site is now owned by Kairos Development Corporation, LRM has retained responsibility for addressing environmental impacts on the site. This Progress Report has been prepared to meet requirements outlined in the Georgia Voluntary Remediation Program Act (VRPA).

ARCADIS submitted a Voluntary Remediation Plan application (application) to EPD on May 24, 2010. The EPD issued a letter to LRM dated June 18, 2013 requesting that a revised application be submitted within 60 days, or by August 19, 2013, to include additional information not provided in the 2010 application. The revised application, which included a summary of the updated investigation/remediation plan and an updated conceptual site model (CSM) incorporating data collected since the original application, was submitted on August 15, 2013. The EPD issued a letter to LRM on March 14, 2014 confirming that the site is eligible for enrollment in the Voluntary Remediation Program (VRP) and provided a proposed Consent Order. LRM reviewed the proposed Consent Order and provided comments in a letter dated April 30, 2014. On August 6, 2014, the EPD executed Consent Order EPD-VRP-009, which supersedes previous Consent Order EPD-HW-562.

Figure 1 presents the location of the former LRM facility superimposed on a topographic map of the area. **Figure 2** is a site map illustrating site layout and monitoring and recovery well locations.

2. Background

LRM, formerly Linear Dynamics, Inc. and Prismo Safety Corporation, voluntarily agreed to provide corrective action for soil and groundwater at the LRM facility in compliance with the previous Consent Order, EPD-HW-562.

Past industrial activities at the site involved research and production of paint for road marking. Historical facility structures included paint blending facilities, supply storage areas, office buildings, a laboratory, an underground storage tank (UST) farm, additional aboveground storage tanks (ASTs), and loading docks. Site history provided

in this report is derived from previous reports, primarily the Report of Preliminary Contamination Assessment (Law Environmental, Inc. [Law] 1986).

The former drum storage areas and former UST farm, located in the western portion of the site, have been identified as contaminant release areas and were the focus of prior investigations. **Figure 2** illustrates historical operation areas and the locations of groundwater monitoring and extraction wells at the site. Buildings and support structures that are shaded on the figure have been demolished; thus, the northwestern and central-western areas of the site are now open and covered by grass, gravel, asphalt, or concrete. Since 1983, investigations have identified that volatile organic compound (VOC) impacts in soil and groundwater are present at the site.

The February 2006 Supplemental Investigation Phase I Results Report (GeoTrans, Inc. [GeoTrans] 2006) summarizes historical investigations, as well as characterization of geology, hydrogeology, and soil and groundwater impacts at the site. In addition, the estimated extent of source-area soil contamination with previous soil borings is documented in the Pilot Study Plan (ARCADIS 2010a).

As presented in the Supplemental Investigation Phase I Results Report, the site includes four solid waste management units (SWMUs) and one former UST. Cleanup activities have consisted of localized soil excavation with off-site disposal, UST removal/disposal, and installation and operation of a groundwater extraction and treatment system. The EPD has been involved with, and has approved, cleanup activities performed at the site. Historical site cleanup actions for soil and groundwater are described below:

- SWMU #1 is the former Hazardous Waste Drum Storage Area and is located on the northern property boundary along East Forest Street. Prior to 1983, incidental spills were reported to have occurred at this area during the normal course of facility operations, releasing VOCs to the ground surface. An undetermined volume of contaminated soil was excavated from this area in 1983.
- SWMU #2 is the location of the former Waste Solvent Tanks, just north of the former UST area, where reclaimed thinner was stored. Reports state that the ASTs were taken out of service in 1984, and in 1986, the contents tested positive for lead. Approximately 70 tons of lead-impacted soil was excavated in 1986. Subsequent soil sampling indicated solvent impacts were present.
- SWMU #3 is the location of the former Caustic Tanks, where, according to the Supplemental Investigation Phase 1 Results Report (GeoTrans 2006), caustic solution was used to clean the varnish tanks. GeoTrans further reported that the

contents failed an Extraction Procedure Toxicity Test for lead and chromium and that mixture was allowed to drain to the land surface. Approximately 100 tons of soil was excavated; additionally, the ASTs were removed in 1986. Subsequent soil sampling indicated solvent and fuel hydrocarbon impacts were present.

- SWMU #4 is the former UST Farm, which consisted of 13 USTs containing various chemicals (toluene, hexane, heptane, xylene, methyl-isobutyl-ketone, methyl-ethyl-ketone, 1,1,1-trichloroethane, methylene chloride, mineral spirits, and methyl alcohol) and ranging in size from 1,000 to 10,000 gallons. The USTs were removed in 1987, and soil contamination was discovered during tank removal activities.
- The former gasoline UST was located adjacent to and east of SWMU #4. MIP groundwater sampling conducted by GeoTrans directly downgradient of the former gasoline UST location (MIP #22) detected benzene, toluene, ethylbenzene, and xylenes (BTEX) compounds at concentrations of 13,200 micrograms per liter ($\mu\text{g/l}$) (toluene), 2,880 $\mu\text{g/l}$ (benzene), and 3,010 $\mu\text{g/l}$ (xylene) at 22.1 feet below ground surface (bgs).

In March 2000, a groundwater treatment system was installed and included five recovery wells, a groundwater treatment plant, and an infiltration gallery. The system was optimized between October 2003 and March 2004 to increase system capacity, and included the addition of two recovery wells (RW-6 and RW-7). Treated water is discharged to the local sewer, which is piped to the publicly owned treatment works (POTW). Further information regarding the operation of the system is provided in Section 8.4 of this Progress Report.

In addition to the cleanup actions outlined above, more recent remediation efforts prior to enrollment in the VRP have consisted of a large-scale excavation of surficial soils and installation of a full-scale air sparging (AS), soil vapor extraction (SVE), and dual-phase extraction (DPE) system. Further information regarding the excavation and installation of the new system is included in Sections 5 and 6 of this Progress Report, respectively.

3. Constituents of Concern

Following is a list of constituents of concern (COCs) detected in soil and groundwater at the site. The list of COCs was formulated by evaluating regulated constituents detected above the Type 1/2 Risk Reduction Standards (RRSs):

Soil: benzene, ethylbenzene, cis-1,2-dichloroethene (cis-1,2-DCE), xylenes, methylene chloride, toluene, trichloroethene (TCE), and lead.

Groundwater: 1,1,2-trichloroethane (1,1,2-TCA), 1,1-dichloroethene (1,1-DCE), cis-1,2-DCE, cyclohexane, xylenes, TCE, tetrachloroethene (PCE), vinyl chloride (VC), benzene, methylene chloride, carbon tetrachloride, toluene, and lead.

3.1 Risk Reduction Standards

RRSs for soil and groundwater were developed for the site for all detected regulated substances. The method used in derivation of the RRSs, along with all calculations and inputs, is presented in **Appendix A**.

RRSs were calculated pursuant to methods outlined by the EPD Response and Remediation Program (Georgia Rule 391-3-19-.07). RRSs were identified using values in Appendix I and Appendix III of Georgia Rule 391-3-19-.07, laboratory partial quantitation limits (PQLs), and calculated receptor- and pathway-specific health-based goals (HBGs). HBGs were calculated consistent with methods in the United States Environmental Protection Agency (USEPA) Risk Assessment Guidance for Superfund, Volume I: Human Health Evaluation Manual, Part B (RAGS B).

The equations used for the calculations of HBGs for soil and groundwater are presented in **Tables A1** and **A2**, respectively, in **Appendix A**. Toxicity information as well as chemical and physical parameters used in fate and transport models for all constituents were obtained from the latest sources available from USEPA, specifically the USEPA Regional Screening Level Tables (USEPA 2015), consistent with EPD recommendation. Toxicity values are presented in **Table A3** and chemical and physical parameters are presented in **Table A4** of **Appendix A**.

Estimated HBGs for adult and child resident receptors exposed to groundwater used as a potable water supply are included in **Tables A5** and **A6**, respectively, in **Appendix A**. Type 1 and Type 2 groundwater RRSs are identified in **Table A7** in **Appendix A**. Estimated HBGs for adult and child resident receptors with direct exposure to soil are included in **Tables A8** and **A9**, respectively, in **Appendix A**. The Type 1 and Type 2 groundwater RRSs were used to estimate Soil Screening Levels (SSLs) for migration to groundwater, as presented in **Tables A10** and **A11**, respectively, in **Appendix A**. Type 1 and Type 2 soil RRSs as well as the maximum of the Type 1 and 2 RRSs (the soil residential RRSs) are identified in **Table A12** in **Appendix A**.



Former Lafarge Road
Marking, Inc.
2675 North Martin Street
East Point, Georgia

Estimated HBGs from exposure of a worker to groundwater used as a potable water supply are included in **Table A13** in **Appendix A**. Groundwater Type 3 and 4 RRSs are identified in **Table A14** in **Appendix A**. Estimated HBGs for a worker with direct exposure to soil are included in **Table A15** in **Appendix A** and were used to estimate SSLs for migration to groundwater based on a non-residential scenario, as presented in **Table A16** in **Appendix A**. Surface soil Type 3 and 4 RRSs are identified in **Table A17** in **Appendix A**. **Table A18** in **Appendix A** summarizes the residential and non-residential criteria RRSs for both soil and groundwater for the site.

3.2 Delineation and Corrective Action Goals

The site COCs and respective groundwater and soil RRSs are shown in the following table.

Constituent of Concern	Groundwater Type 1 RRSs (µg/L)	Groundwater Type 4 RRSs (µg/L)	Soil Type 2 RRSs (mg/kg)	Soil Type 4 RRSs (mg/kg)
Benzene	5	8.7	0.5	0.5
1,1-DCE	7	520	NA	NA
Ethylbenzene	700	700	30	38
cis-1,2-DCE	70	200	7	7
Cyclohexane	10	18,000	NA	NA
Toluene	1,000	5,200	100	100
PCE	5	98	NA	NA
Methylene Chloride	5	450	5	2.3
1,1,2-TCA	5	410	NA	NA
TCE	5	5.2	0.5	0.5
VC	2	2	NA	NA
Xylenes	10,000	10,000	340	354
Carbon Tetrachloride	5	10	NA	NA
Lead	15	15	270	400

NA = Not applicable

µg/L = micrograms per liter

mg/kg = milligrams per kilogram

4. Updated Conceptual Site Model

Geologic investigations have been performed at the site as early as 1986. The data contained in this section are derived primarily from the following reports:

- February 2006 Supplemental Investigation Phase I Results Report prepared by GeoTrans (2006)
- January 2007 Conceptual Remedial Action Plan prepared by LFR, Inc. (LFR; 2007)
- November 2010 Soil Assessment Report prepared by ARCADIS (2010b)

4.1 Topography

The ground surface at the site ranges from 1,080 feet above mean sea level (amsl) along the southwestern perimeter to 1,020 feet amsl in the northeastern corner. Surface water is controlled by storm drainage systems that generally flow from southwest to northeast.

4.2 Geology

The site is located in the Southern Piedmont Physiographic Province and Brevard fault zone (McConnell 1984). The site geology and hydrology described in this report are based on previous reports, primarily the Report of Preliminary Contamination Assessment (Law 1986) and the Report of Additional Assessment Activities (Law 1987).

The Southern Piedmont Province and Brevard fault zone is a northeast to southwest trending set of ridgelines and low rolling hills. Bedrock in the Piedmont Province generally consists of complex metamorphic, igneous, and metasedimentary rocks that have been exposed to intense pressure and heat associated with mountain building, folding, and faulting. As a result, these rocks are crystalline and, having little primary porosity, groundwater occurs predominantly in heterogeneous fracture networks and overlying weathered regolith. Soils develop as a regolith by in situ weathering of the bedrock and are commonly referred to as saprolite.

The bedrock geology that underlies the saprolite at the site consists of interlayered mica schist, gneiss, and amphibolite. Boring logs and cross sections prepared by Law (1987 and 1989) generally describe geologic horizons beneath the site as follows:

- 20 to 40 feet of residual soil (saprolite, micaceous sandy silt, and silty sand)

- Underlain by 5 to 25 feet of partially weathered rock
- Underlain by more than 150 feet of variably fractured competent granitic gneiss and amphibolite

Boring data indicate that the bedrock surface dips across the site to the east-northeast such that the residual soil and partially weathered rock increase in thickness from approximately 40 feet in the west to nearly 70 feet in the east. Geologic cross sections illustrating the current subsurface conditions will be prepared and included in Progress Report #2.

4.3 Hydrogeology

Groundwater movement is controlled by topography, geologic contacts, the distribution and orientation of fractures, and recharge and discharge (including pumping at the site). A regional groundwater divide is present west of the site along U.S. Highway 29 (Main Street on **Figure 2**), which is located along the ridgeline that separates the Chattahoochee River drainage (to the northwest) from the South River drainage (to the southeast). Groundwater movement southeast of the divide flows regionally to the southeast. Natural discharge of groundwater occurs locally to the drainage ditch/stream system on the northeast side of Norman Berry Drive (**Figure 1**).

Most on-site groundwater recharge from precipitation infiltration is captured by six active recovery wells (RW-2, RW-3, RW-4, RW-6, RW-7, and RW-8) that are completed in the residual soil and bedrock and operate as part of a hydraulic containment and groundwater treatment system at the site. Previous hydraulic testing from 22 wells resulted in hydraulic conductivity values ranging from 0.13 to 144 feet per day (ft/d), with an average of 2.7 ft/d. Average hydraulic conductivity values by geologic unit were 2.8 ft/d for tests performed on overburden core, 3.8 ft/d for tests performed on weathered rock core, and 1.3 ft/d for tests performed on deeper rock core (GeoTrans 2006). A 55-hour aquifer test was conducted at RW-1 in 1988 using wells MW-2, MW-10, P-1, and P-2 as observation monitoring wells. RW-1 was pumped at 8 gallons per minute (gpm). Transmissivity values determined by analysis of individual well time-drawdown data included 2,005 ft²/d (MW-2), 160 ft²/d (MW-10), 908 ft²/d (P-1), and 882 ft²/d (P-2). A comprehensive discussion of the site hydrogeology is provided in the Geologic Study Work Plan (ARCADIS 2009a) submitted to the EPD in November 2009.

Potentiometric surface elevation plots of the water table under non-pumping conditions indicate that groundwater flows generally toward the east and northeast, consistent

with previous measurements. Additional details on potentiometric contour maps generated from data collected during the reporting period are provided in Section 8.1.2.

4.4 Migration Pathway Assessment and Potential Receptors

A comprehensive laboratory analytical database has been created from numerous historical investigations for use in evaluating potential human health exposure pathways at the site. The historical data are summarized in the following previously submitted reports:

- Human Health Risk Assessment (Law 1996)
- Revised Risk Assessment (Law 1998)
- Supplementary Investigation Phase I Results Report (GeoTrans 2006)
- Human Exposures Prevention Plan (letter) (ARCADIS 2009b)
- Soil Assessment Report (ARCADIS 2010b)
- Pilot Study Plan (ARCADIS 2010a)
- IAVI Report for the Building North of East Forrest Avenue and the Two On-site Buildings in the Central and the most Western Portion of the Property (ARCADIS 2011)
- Surficial Soil Excavation Work Plan Summary (ARCADIS 2013)

A study of migration pathways and potential receptors was performed for the site based on the data and information available in the above documents supported by more recent soil sample analytical results. As discussed in previous sections, historical releases to soil at the site have resulted in soil and groundwater contamination. The constituents in soil may leach to the groundwater at the site, and VOC constituents in soil or groundwater may volatilize and move upward through the soil column with potential vapor intrusion into buildings on or near the site. Exposure pathways via soil, groundwater, and air were evaluated and are summarized on Figure 10 of the VIRP.

Soil samples collected and analyzed in March 2010 from a direct-push technology (DPT) source area investigation indicated that impacts in certain areas of the site, both paved and unpaved, occurred at depths as shallow as 0 to 1 foot bgs. Although much of the site surface is covered with pavement (asphalt or concrete) or buildings, direct exposure to constituents in the soil by on-site workers could have occurred. The soil

excavation conducted in 2013 and summarized in Section 5.1 was performed to eliminate this potential exposure pathway.

Groundwater is located approximately 15 to 20 feet bgs and direct exposure, even during intrusive activities, is unlikely. Historical potable well surveys performed in proximity to the site concluded that there are no operational private or public potable supply wells within a 3-mile radius. These surveys also concluded that local residences, businesses, and schools in proximity to the site are served by city water, which is drawn from the Sweetwater Creek intake located approximately 12 miles from the site. Based on the depth to groundwater and lack of private or public potable wells, it is expected that the pathway for groundwater exposure via ingestion and dermal contact is incomplete both on site and off site. However, a review of the U.S. Geological Survey (USGS) well database will be performed and local authorities will be contacted to confirm the findings. Furthermore, a field reconnaissance well survey will be performed downgradient of the site, and the results will be presented in Progress Report #2.

VOC constituents in soil and groundwater at the site may migrate from the subsurface via vapor intrusion into buildings either on or near the site. Potential exposure to VOCs via inhalation of indoor air was evaluated in the three buildings located within proximity to impacted soil and groundwater. The indoor air sample results, summarized in the IAVI Report (ARCADIS 2011), indicated that no increased risks or hazards to occupational workers were present within the buildings. Georgia EPD provided comments on the IAVI Report and recommended that a revised vapor intrusion analysis be performed using the EPD's referenced USEPA guidance. This evaluation will be performed and the results submitted in subsequent Progress Reports.

The site is industrialized, largely paved, and presents very minimal terrestrial or aquatic habitat for ecological receptors. The only surface water body observed near the site is a concrete-lined drainage way that connects to the stormwater system. The drainage way is believed to be intermittent and, therefore, not a significant habitat for surface water ecological receptors. Based on the lack of habitat, the depth to constituents in soil, and the lack of groundwater discharge at the site, exposure of terrestrial and aquatic receptors at the site is not applicable.

5. Source Assessment and Removal

5.1 Source Assessment

From May through August 2013, soil samples were collected for analyses at 38 locations (SB-100 through SB-105 and SB-110 through SB-141) to further characterize the lead content in soil in the surficial zone (0 to 2 feet bgs). At each location, soil samples were collected with a hand auger at approximately 1 to 2 feet bgs. Selected soil samples were analyzed by Analytical Environmental Services (AES) located in Atlanta, Georgia, using USEPA Method 6010B for lead. Sampling data indicated that VOC- and lead-affected soil was present in the surficial soil as illustrated on **Figures B1 and B2** in **Appendix B**. Analytical results from the soil assessment are summarized in **Table 1** in **Appendix B**.

5.1 Source Removal

Surficial source soil removal (i.e., excavations) was conducted in 2013, concurrently with installation of the AS/SVE/DPE system. Excavations from 0 to 2 feet bgs were conducted within areas identified as having a potential for direct exposure to VOCs and lead at concentrations exceeding the Georgia Type 3 RRSs. These areas are shown on **Figure B3** in **Appendix B**.

The excavation areas were selected based on the highest concentrations detected in soil from approximately 0 to 2 feet bgs. The excavation areas are detailed below:

- Zone 1 – Approximately 1,981 square feet (**Appendix B, Figure B4**)
- Zone 2 – Approximately 1,300 square feet (**Appendix B, Figure B5**)
- Zone 3 – Approximately 4,788 square feet
 - Zone 3A – 1,250 square feet (**Appendix B, Figure B6**)
 - Zone 3B – 2,190 square feet (**Appendix B, Figure B6**)
 - Zone 3C – 1,348 square feet (**Appendix B, Figure B7**)
- Zone 4 – Approximately 925 square feet (**Appendix B, Figure B8**)
- Zone 5 – Approximately 930 square feet (**Appendix B, Figure B9**)

ARCADIS subcontracted Big Bend Environmental Services, Inc. (BBES) to conduct the soil excavation. BBES cut and removed the concrete and asphalt from the excavation areas covered by pavement prior to soil excavation for each zone and

disposed of the asphalt and concrete as construction and demolition waste. Soil excavation was conducted in general accordance with standard industry practices.

The following sections provide additional details on each excavation zone.

Zone 1

Soil excavation activities in Zone 1 were conducted on April 23 and 24, 2013. The excavation was conducted to a depth of 2 feet bgs, and the final horizontal dimensions of the excavation are shown on **Figure B4** in **Appendix B**. During the excavation activities, soil was screened using a photoionization detector (PID) to evaluate the extent of impacts and thus the extent of the excavation.

Based on the PID readings and field observations following excavation activities, ARCADIS collected 18 confirmation soil samples on April 23 and 24, 2013. Seven sidewall samples were transported to AES for analysis (A1-E Wall, B3-E Wall, B4-S Wall, C1-N Wall, D4-W Wall, F1-N Wall, and F3-W Wall). In addition, 11 bottom samples were collected and submitted to AES for analysis (A2, B1, B3, C2, C4, D1, D3, D5, E2, F1, and F3). Sample locations are shown on **Figure B4** in **Appendix B**.

Based on characterization sample results, approximately 185.24 tons of soil from Zone 1 was transported from the site for disposal as non-hazardous waste at the Pine Bluff landfill in Ball Ground, Georgia. Weigh tickets and disposal manifests are included in **Appendix D**.

Zone 2

Soil excavation activities in Zone 2 were conducted from June 20 through 26, 2013. The excavation was generally conducted to a depth of approximately 2 feet bgs, and the final horizontal dimensions of the excavation are shown on **Figure B5** in **Appendix B**. During excavation activities, soil was screened using a PID to evaluate the extent of the excavation. Based on the PID readings and field observations, ARCADIS collected 12 confirmation soil samples. Seven sidewall samples were collected and submitted for analysis (A1-N Wall, A2-W Wall, C1-N Wall, C2-S Wall, D2-S Wall, E1-N Wall, and E2-S Wall). In addition, five bottom samples were collected and submitted for analysis (A2, B1, C2, D1, and E2). Sample locations are shown on **Figure B5** in **Appendix B**.

Based on exceedances of the Type 3 RRS for lead in sidewall confirmation samples D2-S Wall (1,520 milligrams per kilogram [mg/kg]), E1-N Wall (586 mg/kg), and E2-S Wall (610 mg/kg), the excavation was later extended to the north and to the east. The excavation boundary was defined to the north by SB-130 (165 mg/kg) and to the east by SB-140 (213 mg/kg) and SB-141 (370 mg/kg).

Based on characterization sample results, approximately 144 tons of soil from Zone 2 was transported from the site for disposal as non-hazardous waste at the Pine Bluff landfill. Weigh tickets and disposal manifests are included in **Appendix D**.

Zone 3A

Soil excavation activities in Zone 3A were conducted from May 8 through 10, 2013. The excavation was generally conducted to a depth of approximately 2 feet bgs, and the final horizontal dimensions of the excavation are shown on **Figure B6** in **Appendix B**. During excavation activities, soil was screened using a PID to evaluate the extent of the excavation. Floor samples B1 and C2 exhibited multiple exceedances well above the Type 3 RRSs; therefore, the excavation was extended up to 5 feet bgs in the vicinity of samples B1 and C2.

Based on the PID readings and field observations, ARCADIS collected 14 confirmation soil samples. Seven sidewall samples were collected and submitted for analysis (A2-S Wall, B1-N Wall, C2-S Wall, D1-N Wall, E2-S Wall, F1-N Wall, and G2-W Wall [which was collected on the east wall of the excavation]). In addition, seven bottom samples were collected and submitted for analysis (A2, B1, C2, D1, E2, F1, and G2). Sample locations are shown on **Figure B6** in **Appendix B**.

Based on an exceedance of the Type 3 RRS for lead in sidewall confirmation sample D1-N Wall (419 mg/kg), the excavation was extended slightly to the north. The excavation boundary was defined farther to the north by SB-56 (160 mg/kg) and SB-26 (310 mg/kg).

Based on characterization sample results, 217.76 tons of soil from Zone 3A was transported from the site for disposal as a characteristic hazardous waste (TCE D040) at the Wayne Disposal, Inc. (WDI) landfill in Bellview, Michigan, which is a commercial hazardous waste landfill and is permitted to accept TCE-contaminated wastes. Weigh tickets and disposal manifests are included in **Appendix D**.

Zone 3B

Soil excavation activities in Zone 3B were conducted from May 28 through 31, 2013. The excavation was generally conducted to a depth of approximately 2 feet bgs, and the final horizontal dimensions of the excavation are shown on **Figure B6** in **Appendix B**. During excavation activities, soil was screened using a PID to evaluate the extent of the excavation. Based on the PID readings and field observations, ARCADIS collected 22 confirmation soil samples. Eight sidewall samples were collected and submitted for analysis (A1-N Wall, B2-S Wall, D2-S Wall, E4-S Wall, F3-S Wall, H4-W Wall, J1-E Wall, and J4-E Wall). In addition, 14 bottom samples were collected and submitted for analysis (A1, B2, C1, D2, E1, F2, F4, G1, G3, H2, I1, I3, J2, and J4). Sample locations are shown on **Figure B6** in **Appendix B**.

Based on exceedances of the Type 3 RRS for lead from sidewall confirmation samples A1-N Wall (437 mg/kg), B2-S Wall (586 mg/kg), and J4-E Wall (428 mg/kg), the excavation was later extended to the south and to the east up to the high-voltage underground electric distribution line. The excavation boundary was defined to the north by SB-48 (22 mg/kg) and SB-52 (15 mg/kg), and farther to the south by SB-128 (262 mg/kg) and SB-111 (180 mg/kg).

Based on characterization sample results, approximately 219 tons of soil from Zone 3B was transported from the site for disposal as non-hazardous waste at the Pine Bluff landfill. Weigh tickets and disposal manifests are included in **Appendix D**.

Zone 3C

Soil excavation activities in Zone 3C were conducted on June 11 and 12, 2013. The excavation was generally conducted to a depth of approximately 2 feet bgs, and the final horizontal dimensions of the excavation are shown on **Figure B7** in **Appendix B**. During excavation activities, soil was screened using a PID to evaluate the extent of the excavation. Based on the PID readings and field observations, ARCADIS collected 14 confirmation soil samples. Four sidewall samples were collected and submitted for analysis (A3-E Wall, C1-S Wall, E1-W Wall, and E4-W Wall). In addition, 10 bottom samples were collected and submitted for analysis (A1, A3, B2, B4, C1, C3, D2, D4, E1, and E3). Sample locations are shown on **Figure B7** in **Appendix B**.

Based on exceedances of the Type 3 RRS for lead in sidewall confirmation samples A3-E Wall (576 mg/kg) and E1-W Wall (695 mg/kg), the excavation was later extended

to the east up to the high-voltage underground electrical distribution line. The excavation boundary was defined to the west by SB-8 (139 mg/kg).

Soil in the vicinity of grid locations B1 and B2 to D1 and D2 was excavated to approximately 5 feet bgs and characterized as sample 3D.

Based on characterization sample results from 3C and 3D, 250.10 tons of soil from Zone 3C was transported from the site for disposal as characteristic hazardous waste (Lead D008) at the Waste Management landfill located in Emelle, Alabama. The Emelle landfill is a commercial hazardous waste landfill permitted to accept lead-contaminated wastes. Weigh tickets and disposal manifests are included in **Appendix D**.

Zone 4

Soil excavation activities in Zone 4 were conducted on May 21, 2013. The excavation was generally conducted to a depth of approximately 2 feet bgs, and the final horizontal dimensions of the excavation are shown on **Figure B8** in **Appendix B**. Based on the PID readings and field observations, ARCADIS collected seven confirmation soil samples. Four sidewall samples were collected and submitted for analysis (A1-N Wall, A3-W Wall, C1-N Wall, and C3-E Wall). In addition, three bottom samples were collected and submitted for analysis (B1, B3, and C2). Sample locations are shown on **Figure B8** in **Appendix B**.

Based on exceedances of the Type 3 RRS for lead in sidewall confirmation samples A1-N Wall (1,890 mg/kg), A3-W Wall (581 mg/kg), C1-N Wall (489 mg/kg), and C3-E Wall (1,980 mg/kg), the excavation was later extended to the north and to the east. The excavation boundary was defined to the north by SB-48 (22 mg/kg) and SB-52 (15 mg/kg) and to the west by the high-voltage underground electrical distribution line.

Based on characterization sample results, approximately 102 tons of soil from Zone 4 was transported from the site for disposal as non-hazardous waste at the Pine Bluff landfill. Weigh tickets and disposal manifests are included in **Appendix D**.

Zone 5

Soil excavation activities in Zone 5 were conducted on June 12 and 13, 2013. The excavation was generally conducted to a depth of approximately 2 feet bgs, and the final horizontal dimensions of the excavation are shown on **Figure B9** in **Appendix B**. During excavation activities, soil was screened using a PID to evaluate the extent of

the excavation. Based on the PID readings and field observations, ARCADIS collected 13 confirmation soil samples. Six sidewall samples were collected and submitted for analysis (A4-W Wall, B1-N Wall, B3-W Wall, B4-E Wall, D1-N Wall, and D3-S Wall). In addition, seven bottom samples were collected and submitted for analysis (A2, A4, B1, B3, C2, D1, and D3). Sample locations are shown on **Figure B9** in **Appendix B**.

Based on exceedances of the Type 3 RRS for lead from sidewall confirmation samples B1-N Wall (603 mg/kg) and B4-E Wall (1,420 mg/kg), the excavation was later extended to the north and to the east up to the building footprint. Excavation was limited to the southeast due to a significant amount of metal conduits located just beneath the concrete slab. The excavation boundary was defined to the north by SB-133B (241 mg/kg) and to the west by SB-132 (241 mg/kg).

Based on characterization sample results, approximately 93 tons of soil from Zone 5 was transported from the site for disposal as non-hazardous waste at the Pine Bluff landfill. Weigh tickets and disposal manifests are included in **Appendix D**.

5.1.1 Waste Characterization Soil Samples

The disposal facilities required collection of characterization samples for every 200 tons of soil excavated from each area of the site. Three stockpile cells, each with a capacity for up to 200 tons of soil, were constructed on site prior to the excavation. ARCADIS collected one soil sample from each of the stockpile cells and submitted samples to AES on a 24-hour turnaround basis for toxicity characterization leaching procedure (TCLP) analysis using USEPA Method SW1311 for the following compounds:

- VOCs using USEPA Method 8260B
- Polynuclear aromatic hydrocarbons (PAHs) using USEPA Method 8270D
- Resource Conservation and Recovery Act (RCRA) 8 metals using USEPA Methods 6010C and 7470A

The results of the analyses were used to characterize the soil for proper disposal. If the results of the sampling exceeded Toxicity Characteristics of 40 Code of Federal Regulations 261.24, additional TCLP analyses were performed using USEPA Method SW1311 for the following compounds:

- Semivolatile organic compounds using USEPA Method 8270D
- Pesticides using USEPA Method 8081B
- Herbicides using USEPA Method 8151A

ARCADIS used the analytical results to characterize the soil as either hazardous or non-hazardous. The results are summarized in **Tables 2A and 2B** in **Appendix B**, and the laboratory analytical reports are included in **Appendix C**. Characterized soil was transported to a treatment-disposal facility by a licensed trucking company. Soil was carefully placed in the trucks during the loading process. Each truck was issued a waste manifest signed by the truck driver, and was equipped with a U.S. Department of Transportation-approved tarp to cover the trailer. To obtain an accurate soil weight, each truck was weighed before and after dropping off its contents at the soil disposal facility using a certified truck scale. Transportation manifests and certificates of disposal are included in **Appendix D**. The total weight of the soil removed from the site is as follows:

- Non-Hazardous – Waste Management Pine Bluff landfill, Ball Ground, Georgia 777.18 tons
- Characteristic Hazardous (D003) lead – Waste Management landfill, Emelle, Alabama 250.10 tons
- Characteristic Hazardous (D040) TCE – WDI, Bellview, Michigan 217.76 tons

In addition to soil removed during excavation activities, soil generated during installation of the AS/SVE/DPE system well drilling and trench spoils (approximately 231 tons) was characterized and disposed of as non-hazardous waste at the Pine Bluff landfill in Ball Ground, Georgia. Manifests are included in **Appendix D**.

5.1.2 Confirmation Soil Samples

ARCADIS collected confirmation soil samples from the sidewalls of the excavated areas as excavation proceeded. These soil samples were collected as discrete samples to evaluate soil left in place. ARCADIS collected approximately one sidewall sample for every 25 linear feet of the perimeter of each excavation area. In addition, ARCADIS collected approximately one floor sample for every 200 square feet of excavated area. Soil samples were analyzed for lead using USEPA Method 6010C on a 24-hour turnaround time. Selected soil samples were also analyzed for VOCs using USEPA Method 8260C on a 24-hour turnaround time. Lead and VOC analytical results for confirmation soil samples are summarized in **Tables 3A and 3B** in **Appendix B**, and the laboratory analytical reports are presented in **Appendix C**.

6. Remediation System Construction

LRM installed the AS/SVE/DPE system at the site in 2013 to address known soil and groundwater impacts in historical source areas. The system was installed prior to enrollment in the VRP; however, it will become the primary corrective action remedy throughout the VRP. The following sections outline the installation of this system. A layout of the AS/SVE/DPE remediation wells is provided as **Figure 3**.

6.1 Well Installations

Between April 14 and August 25, 2013, 63 AS wells, 74 SVE wells, and 6 DPE wells were installed as part of the remediation system construction. In addition, four monitoring wells and one recovery well (RW-8) were installed in August 2013, and four monitoring wells were installed in April 2014. Each well was installed using hollow-stem auger drilling methods. The remedial system layout and well locations are shown on **Figure 3**. Well construction details are summarized in **Table 1**, and well construction and development logs are included in **Appendix E**.

The AS wells (AS-101 through AS-115, AS-201 through AS-215, AS-301 through AS-316, and AS-401 through AS-417) were installed to total depths ranging from 34 to 36 feet bgs and were constructed with 3 feet of 2-inch-diameter, 0.01-inch, wire-wrapped stainless-steel well screen; 20 feet of 2-inch-diameter stainless-steel casing; and up to 13 feet of 2-inch-diameter Schedule 80 polyvinyl chloride (PVC) casing. A 20/30 sand filter pack was placed between the screen and the borehole of each well to approximately 1 foot above the top of the screen. One foot of coated bentonite pellets was placed above the sand filter pack, and the remainder of the annular space was filled with grout.

The SVE wells were installed to total depths ranging from 20 to 25 feet bgs and constructed with either 15 feet or 20 feet of 4-inch-diameter, 0.01-inch, wire-wrapped stainless-steel well screen, and up to 5 feet of 4-inch-diameter, Schedule 80 PVC casing. A 20/30 sand filter pack was placed between the screen and the borehole of each well to approximately 1 foot above the top of the screen. One foot of 30/65 fine-sand seal was placed above the sand filter pack, and the remainder of the annular space was filled with grout.

The DPE wells (DPE-109, DPE-118, DPE-305, DPE-307, DPE-313, and DPE-408) were installed to a total depth of approximately 30 feet bgs and constructed with 25 feet of 4-inch-diameter, 0.01-inch, wire-wrapped stainless-steel well screen, and

5 feet of 4-inch-diameter, Schedule 80 PVC riser. A 20/30 sand filter pack was placed between the screen and the borehole of each well to approximately 1 foot above the top of the screen. One foot of 30/65 fine-sand seal was placed above the sand filter pack, and the remainder of the annular space was filled with grout.

Recovery well RW-8 was installed to address concerns regarding TCE concentrations detected in groundwater samples collected from MW-7; as a result, RW-8 was designed to mirror the screened interval of MW-7. Recovery well RW-8 was installed to a total depth of approximately 67 feet bgs, within a 10-inch-diameter surface/outer casing installed 10 feet into competent bedrock (46 feet bgs). The recovery well was constructed of 6-inch-diameter stainless-steel casing and a 0.010-inch V-slot, wire-wrapped well screen, which is screened from 50 to 65 feet bgs and contains a 2-foot sump from 65 to 67 feet bgs. A 20/30 sand filter pack was placed between the screen and the borehole to approximately 2 feet above the top of the screen. Two feet of coated bentonite pellets were placed above the sand filter pack, and the remainder of the annular space was filled with grout.

Two sets of nested wells (MW-30/MW-31 and MW-32/MW-33) were installed during the remediation system construction to further assess the shallow and deep intervals. The two deep wells (MW-30 and MW-32) were installed to a total depth of approximately 60 feet bgs and constructed with 10 feet of 2-inch-diameter, 0.01-inch-slot well screen, and 50 feet of 2-inch-diameter, Schedule 40 PVC riser. The two shallow wells (MW-31 and MW-33) were installed to a total depth of approximately 35 feet bgs and constructed with 10 feet of 2-inch-diameter, 0.01-inch-slot well screen, and 25 feet of 2-inch-diameter, Schedule 40 PVC riser. A 20/30 sand filter pack was placed between the screen and the borehole of each well to approximately 2 feet above the top of the screen. Two feet of coated bentonite pellets were placed above the sand filter pack, and the remainder of the annular space was filled with grout.

In April 2014, three monitoring wells (MW-34, MW-35, and MW-36) were installed after remediation system construction to further delineate impacts in the groundwater surrounding MW-32. These wells were installed to a total depth of approximately 60 feet bgs and constructed with 10 feet of 2-inch-diameter, 0.01-inch-slot well screen, and 50 feet of 2-inch-diameter, Schedule 40 PVC riser. A 20/30 sand filter pack was placed between the screen and the borehole of each well to approximately 2 feet above the top of the screen. Three feet of coated bentonite pellets were placed above the sand filter pack, and the remainder of the annular space was filled with grout.

In addition, during construction of the remediation system, MW-5 was damaged by the construction contractor. As a result, in April 2014, MW-5R was installed during the installation of MW-34, MW-35, and MW-36. This well was installed to a total depth of approximately 60 feet bgs and constructed with 15 feet of 2-inch-diameter, 0.01-inch-slot well screen, and 45 feet of 2-inch-diameter, Schedule 40 PVC riser. A 20/30 sand filter pack was placed between the screen and the borehole to approximately 3 feet above the top of the screen. Three feet of coated bentonite pellets were placed above the sand filter pack, and the remainder of the annular space was filled with grout.

6.2 Remediation System Installation

Remediation system construction was performed from April 15 to October 7, 2013, in accordance with the City of East Point Erosion and Sediment Control Permit. The work consisted of trenching from each AS, SVE, and DPE well to a designated manifold. Each well was individually piped from the well to the manifold to allow for more control of the system. There are a total of four manifolds, which represent the four AS/SVE system zones. In addition, the DPE wells and RW-8 were trenching and piped to the groundwater treatment plant to allow recovered water to be treated by the treatment system, as well as air to operate the pneumatic pumps within the wells. Upon completion of pipe testing, the trenches were backfilled and compacted in preparation for resurfacing with concrete, and final restoration was completed with either asphalt or grass to match the existing surface. The AS wells were completed inside 8-inch-diameter manholes; the SVE wells were completed inside 12-inch-diameter manholes; the DPE wells were completed inside 24-inch-square manholes; and RW-8 was completed inside a 24-inch by 36-inch manhole. Record drawings documenting the system installation are presented in **Appendix F**.

Soil generated during installation of the AS, SVE, and DPE wells, RW-8, and trenching activities (approximately 231 tons) was characterized and disposed of as non-hazardous waste at the Pine Bluff landfill in Ball Ground, Georgia. Manifests are included in **Appendix D**.

6.3 Remediation System Equipment

The AS system consists of two 25-horsepower (hp) Busch Model 1202 BP rotary-claw air compressors, a 0.5-hp fan-ventilated heat exchanger, a distribution manifold, and associated appurtenances. The inlet piping to the compressor is fitted with inlet filters/silencers. The discharge piping between the compressor and heat exchanger includes pressure and temperature gauges. The discharge piping on the heat

exchanger is fitted with a pressure gauge, temperature gauge, high-temperature alarm switch, discharge silencer, air-bleed valve with filter/silencer, and check valve. The distribution manifold includes pressure regulators, pressure gauges, flow-control valves, and flow meters to control and monitor the distribution of air to each of the four zones. The system includes solenoid valves for each of the four branches to allow for cyclical operation controlled by the Programmable Logic Control (PLC).

The SVE system consists of two 60-hp Dresser Roots Model 418 RAM rotary-lobe blowers, a 200-gallon moisture separator, two 2-hp Xchanger AA-1000 heat exchangers, a zone distribution manifold, and associated appurtenances. Each of the four zones is plumbed to an SVE manifold fitted with ball valves, vacuum gauges, and sampling ports. The moisture separator is connected to the manifold via 6-inch PVC pipe, and the moisture separator contains a demisting element, removable lid, sight glass, high-level alarm switch, and manual drain plumbed to the exterior of the enclosure. The inlet piping between the moisture separator and blower is fitted with vacuum gauges, an inline filter, sampling ports, a dilution valve with an inlet filter/silencer, flow meters before and after the dilution valve, a vacuum-relief valve, and a low-vacuum alarm switch. The discharge piping is fitted with a discharge silencer, pressure gauge, temperature gauge, and sampling ports. The blowers are equipped with variable-frequency drives and controlled by a PLC located in the control panel, which is interlocked with the AS compressor. The result is that the AS compressor cannot operate if the SVE system is not operating.

The SVE vapor discharge is treated by four vessels filled with 40,000 pounds of granular-activated carbon (GAC). A discharge manifold assembly is installed inline between the blower exhaust from the heat exchangers and the GAC vessels. The manifold is plumbed to allow flexibility to change the configuration between lead and lag vessels in addition to two parallel streams.

The DPE system consists of a 7.5-hp Atlas Copco Model GA5 rotary-screw compressor, 125-gallon air tank, integral air dryer and heat exchanger, and well distribution manifold. Each DPE well is fitted with a QED Model AP4 top-loading pneumatic-powered pump. The six DPE pumps are plumbed to the pressure manifold fitted with ball valves, pressure gauges, and cycle counters. A three-way solenoid is fitted to the manifold to discharge the air in the event of a shutdown. The compressor is controlled by a PLC located in the control panel, which is interlocked with the groundwater treatment system to notify the PLC if a high level is reached in the equalization tank where the extracted groundwater is conveyed.

Recovery well RW-8 is fitted with an electric submersible Grundfos Redi-Flo 3 Pump Model 140, and the electrical and controls are wired to a separate control panel that is connected to the existing groundwater treatment system control panel. RW-8 is interlocked with the groundwater treatment system to shut down in alarm conditions.

The equipment detailed above is housed inside an 8-foot by 40-foot container with lighting, ventilation fans, and passive vents. Operation and maintenance (O&M) manuals are located in the remediation trailer, and copies are stored on site and at ARCADIS' office.

7. Remediation System Startup and Operation

The AS/SVE remediation system was started on October 8, 2013. Initially, only the SVE system was operated to measure the influence of the SVE system. On October 9, 2013, the AS system was started and operated in conjunction with the SVE system.

7.1 Soil Vapor Extraction System

The design flow rate for each SVE well was 10 standard cubic feet per minute (scfm) at the wellhead, and 800 scfm with a corresponding vacuum of 13 inches of mercury (in. of Hg) at the blower. At startup, the SVE system was operated without the AS system to evaluate the influence of the SVE system. The SVE system operated at a total flow rate of 1,200 scfm with a corresponding vacuum of approximately 10 in. of Hg at the blower. The operational data collected from the surrounding monitoring wells from October 8, 2013 through October 22, 2014 indicated that vacuum was present in the shallow on-site monitoring wells in the vicinity of the SVE wells (**Figure 4**).

Upon startup of the AS system, the SVE system continued to operate at an average total flow rate of 1,200 scfm. To monitor the performance of the SVE system, vapor samples were collected from the SVE system prior to vapor treatment during the first three days of startup. Vapor samples were screened on site with a PID and confirmation samples were submitted for laboratory analysis using USEPA Method TO-15. Based on the vapor analytical data and flow rate, the SVE system recovered an average of approximately 3,750 pounds of total VOCs per day for the first three days. The laboratory analytical data are summarized in **Table 5**, and the laboratory analytical reports are included as **Appendix C**.

To increase the time to reach breakthrough of the GAC and increase in situ degradation of the source mass in the vadose zone, the system was operated in

zones. In addition, the AS system was turned off on October 18, 2013 (breakthrough of the first two GAC vessels) and remained shut down to focus the remediation on the vadose zone.

As a result of the vapor mass recovery, the system operation was further modified to only operate in one zone at a time. The purpose was to increase the system operation time in one zone to evaluate GAC usage and time to cleanup. During the operation of only Zones 1 and 2, the total flow rate ranged from 188 to 568 scfm with the vacuum ranging from 4 to 40 in. of Hg.

7.2 Vapor Emissions Treatment

To monitor the performance of vapor emissions treatment, vapor samples were collected from the SVE system following vapor treatment and analyzed on site using a PID with confirmation samples submitted for laboratory analyses. Based on the vapor analytical data, the GAC vessels were effectively treating the vapors. Upon receipt of vapor analytical data indicating that vapor concentrations treated less than 95 percent of the recovered contaminant mass, the system was shut down until a change-out of the GAC was performed. Following completion of the GAC change-out, the system was restarted. The laboratory analytical data are summarized in **Table 5**, and the laboratory analytical reports are included as **Appendix C**.

GAC change-outs were performed on November 11, 2013, February 11, 2014, April 22, 2014, and July 9, 2014. A GAC sample was collected for laboratory analyses for waste determination, and spent GAC was sent to a GAC regeneration facility in Blasdell, New York. The laboratory analytical data and the July 2014 Semiannual Waste Disposal Letter, including shipping manifests, are presented in **Appendix D**.

7.3 Air Sparging System

The design flow rates for the AS wells ranged from 5 to 10 scfm at a wellhead pressure of up to 17 pounds per square inch (psi). The flow rates of the AS wells were initially set to approximately 5 scfm with a corresponding wellhead pressure that ranged from 10 to 13 psi. During the second week of operation, flow rates were adjusted from 5 scfm to between 2.0 and 2.5 scfm to reduce the vapor mass extraction. The AS system operated with four zones on a cycle of 4 hours on and 4 hours off. Based on the performance data (dissolved oxygen [DO] concentrations) collected from surrounding monitoring wells, the desired radius of influence was achieved. **Figure 4**

shows the AS system influence (using DO concentrations) in the shallow groundwater as measured in October 2013.

The AS system was shut down on October 18, 2013, after two weeks of operation due to significant mass recovery consuming the vapor-phase treatment. The AS system remained shut down until the C3 Technology vapor treatment was installed in October 2014.

7.4 Dual-Phase Extraction System

The DPE wells operate with pneumatic pumps, and flow rates are dependent on aquifer recharge. DPE flow rates ranged from approximately 0.2 gpm (DPE-307) to 2 gpm (DPE-305) during the reporting period. Recovered groundwater from the DPE wells was treated by the existing groundwater treatment system. The groundwater laboratory analytical data from the DPE wells are summarized in **Table 3a** and **Table 3b**, and the laboratory analytical reports are included as **Appendix C**.

7.5 Recovery Well RW-8 Pump Test

Prior to starting operation of RW-8, a step-drawdown test was performed to evaluate potential extraction rates and drawdown at the well. The test was performed on October 7, 2013, and consisted of four consecutive constant-rate steps of 0.5, 1.0, 1.5, and 2.0 gpm. Water levels were monitored by pressure transducers deployed at the pumping well and observation well MW-7. The total duration of pumping was 166 minutes.

A maximum drawdown of 27.63 feet was measured at the pumping well; a maximum drawdown of 4.45 feet was measured at observation well MW-7, located approximately 10 feet from the pumping well. Drawdown over time at the pumping well and observation well is presented in **Appendix G (Figure G1)**. A stable drawdown, defined as less than 0.02 feet of water-level change over a 10-minute period, of 5.91 feet at the pumping well was obtained for the first step of 0.5 gpm, which corresponds to a specific capacity of 0.08 gpm/ft. Stable drawdown was not obtained at subsequent rate steps of 1, 1.5, and 2.0 gpm. Failure to achieve stable drawdown may indicate either that the duration of pumping was too short to reach stable drawdown or that the selected pumping rate is not sustainable at the well. Review of step-drawdown test data indicates that a pumping rate of 1 gpm or less will be sustainable at RW-8.

Time-drawdown data collected at MW-7 during the RW-8 step-drawdown test were analyzed using applicable analytical solutions available in AQTESOLV for Windows® (Duffield 2007). Drawdown data were analyzed using the Cooper-Jacob (1946) approximation to the Theis (1935) solution for pumping in a confined aquifer as well as the Dougherty-Babu (1984) solution. The Cooper-Jacob analysis yielded transmissivity estimates of 12.72, 14.0, and 19.3 ft²/day for the three straight-line portions of the curve (modified to reflect variable pumping). Storativity estimates from the Cooper-Jacob solution fits are not presented due to the significance of wellbore storage effects for the duration and rate of pumping at RW-8. The Dougherty-Babu solution incorporates wellbore storage; the plot of the Dougherty-Babu solution matched to MW-7 data is presented in **Appendix G (Figure G2)**. Estimated transmissivity and storativity from this solution fit were 19 ft²/day and 7×10^{-4} , respectively. Early time data at MW-7 yield a poor fit to the selected type curve due to incomplete recovery from pumping at RW-8 prior to the start of the step-drawdown test. However, the effects of this incomplete recovery are minor at late time and do not significantly affect the quality of the curve match or resulting parameter estimates.

8. Summary of Work Completed this Period

The following sections summarize work completed since enrolment in the VRP on August 7, 2014 through March 31, 2015.

8.1 Groundwater Assessment

Semiannual groundwater sampling was conducted in November 2014 and will continue until compliance with final cleanup standards is demonstrated for a one-year period. Semiannual monitoring consists of collecting water-level measurements and collecting groundwater samples from the 42 monitoring and recovery wells outlined in **Table 2**. Well construction details are provided in **Table 1**.

In addition to the semiannual VRP groundwater monitoring, quarterly groundwater sampling of select wells, as presented in **Table 2**, was conducted in February 2015 to monitor the effectiveness of the AS/SVE/DPE system. Additional details on those sampling results are provided in Section 8.3.

8.1.1 Groundwater Sampling Methodology

Well purging and sampling methods utilize a peristaltic pump and low-flow, low-purge volume sampling methodologies following the USEPA Region 4 Science and

Ecosystem Support Division (SESD) operating procedures, dated March 6, 2013, for groundwater sampling to ensure that a representative sample is collected and to minimize the quantity of well purge water generated during sampling. Prior to initiating pumping, a properly decontaminated water-level meter was lowered into the well to monitor static water level prior to and during the purging process. Depth-to-water measurements and groundwater elevations are summarized in **Table 1**.

During purging and sampling, the Teflon[®] tubing intake was placed at the mid-portion of the screened interval of the well. Flow rates did not exceed the recharge rate of the aquifers monitored by measuring the top of the water column with a water-level indicator while purging. With respect to groundwater chemistry, an adequate purge was achieved when the pH, specific conductance, and temperature of the groundwater had stabilized and the turbidity had either stabilized or was below 10 Nephelometric Turbidity Units (NTUs) (twice the Primary Drinking Water Standard of 5 NTUs). Stabilization occurred when pH measurements remained constant within 0.1 Standard Unit (S.U.), specific conductance varied no more than 5 percent, and the temperature was constant to within 1 degree Celsius (°C) for at least three consecutive readings. Secondary criteria for stabilization include DO measurements within 0.2 milligram per liter. Groundwater samples were collected following the USEPA-accepted “soda straw” sampling method when water quality parameters had been reached. Well purging and sampling logs from the November 2014 and February 2015 monitoring events are provided in **Appendix H**.

The groundwater samples collected in November 2014 were analyzed for VOCs by USEPA Method 8260B, and samples from MW-2, MW-3, MW-4, MW-5R, MW-17, MW-30, and MW-31 were also analyzed for lead by Method 6020. Planned semiannual monitoring is summarized in **Table 2**, which includes additional information on samples collected for laboratory analyses.

8.1.2 Groundwater Flow Data

As illustrated on **Figures 5a** and **5b**, groundwater flow in the upper and lower aquifer zones during the November 14, 2014 gauging event was toward the northeast. Additionally, vertical gradients were calculated for the following six well pairs: MW-07/MW-08, MW-09/MW-10, MW-11/MW-12, MW-13/MW-14, MW-15/MW-16, and MW-23/MW-24. Vertical gradients for the six well pairs for each measurement event are presented in the table below.



Voluntary Investigation and Remediation Plan – Progress Report #1

Former Lafarge Road
Marking, Inc.
2675 North Martin Street
East Point, Georgia

Well Pair	November 2014
MW-07/MW-08	-0.05'
MW-09/MW-10	-0.02'
MW-11/MW-12	-0.03'
MW-13/MW-14	0.05'
MW-15/MW-16	0.00'
MW-023/MW-024	-0.02'

The vertical gradient is calculated by dividing the difference in overburden and bedrock groundwater elevation by the difference in total depth of the screened interval of overburden and bedrock wells. Based on the table above, a positive number would indicate a downward gradient and a negative number would indicate an upward gradient. Typically, the well pairs located near recovery wells are expected to demonstrate a downward gradient (positive number) as a result of the influence of the drawdown in the recovery wells. The MW-15/MW-16 well pair is not located near an actively pumping recovery well.

8.1.3 Groundwater Sample Results

The results of the November 2014 monitoring event indicate that the most impacted wells are located near the former hazardous waste drum storage area and that lead was below laboratory detection limits in each of the samples analyzed. The most impacted monitoring wells on-site are in proximity to the former hazardous waste storage area and are within the influence of the AS/SVE/DPE system. The current constituents that exceed their respective Type 4 RRSs as of the November 2014 monitoring event are; benzene, cis-1,2-DCE, ethylbenzene, toluene, TCE, VC, and xylenes. Operation of the system is expected to decrease VOC concentrations in these wells over time.

Groundwater was detected above the Type 1 RRSs at MW-28 and MW-29. These wells are located northeast and downgradient of the site in the direction of groundwater flow. Groundwater concentrations in these wells will be evaluated in subsequent semiannual monitoring events to determine if additional downgradient wells are needed to complete delineation. Groundwater delineation is complete on the northwestern, southwestern, and southeastern portion of the property.

Laboratory analytical reports from the November 2014 monitoring event are included in **Appendix C**. The analytical results for organics and lead are summarized in **Table 3a and 3b**, respectively. A figure illustrating the distribution of COCs for organics and lead is provided as **Figure 6**.

It is anticipated that COC concentrations will decrease over time due to the operation of the AS/SVE/DPE system within the source area.

8.2 Soil Assessment

In January 2015, 12 soil borings (SB-142 through SB-153) were installed to horizontally and vertically delineate soil impacts to the east, northwest, and south, which included borings inside the former warehouse (SB-144 through SB-148) located east of the groundwater treatment building. The locations and analytical results of the January 2015 and historical soil investigations for VOCs and lead are presented on **Figures 7A and 7B**, respectively. Soil analytical summary tables for VOCs and lead are included as **Table 4a and 4b**, respectively.

8.2.1 Soil Sampling Methodology

Each of the soil borings was advanced via DPT tools by a Georgia-certified driller to collect continuous core samples using a macro-core sampler from the ground surface to the top of the water table, approximately 25 feet bgs. After the cores were collected, they were opened and immediately screened with an organic vapor analyzer equipped with a flame ionization detector (OVA-FID) to field-assess concentrations of VOCs. The lithology was logged at each location in accordance with the ASTM International 2488 Description and Identification of Soils. Soil samples for laboratory analysis were collected from the core based on visual observations or from the interval with the highest OVA-FID reading. Up to three soil samples per soil boring were collected for laboratory analysis at the following intervals: directly beneath the floor, at the 2-foot interval immediately above the water table, and at any 2-foot interval exhibiting the most elevated OVA-FID reading. At locations where no impacts to the soil were detected, a sample was collected from directly below the floor and from the interval immediately above the water table.

The shallow and subsurface soil samples were placed in laboratory-supplied containers and stored in sealed, ice-filled coolers. The samples were delivered to AES under appropriate preservation and chain-of-custody procedures. Soil samples for VOC and lead analysis by USEPA Method 8260B and Method E200.7, respectively,

were collected in accordance with USEPA Method 5035 as outlined in USEPA SESD Soil Sampling Procedure SESDPROC-300-R0 guidance.

8.2.2 Soil Sampling Results

The results of the soil investigation indicated that delineation is complete with the exception of one soil sample beneath the warehouse (SB-148), which marginally exceeds the delineation standard. Ethylbenzene was detected from the 1- to 3-foot interval at 89 mg/kg, exceeding the Type 1/2 RRS of 30 mg/kg. A comparison of the January 2015 soil analytical results and historical soil analytical results to the Type 1/2 and Type 4 RRSs is shown on **Figures 7A** and **7B**. The OVA-FID readings as well as the lithologic descriptions are summarized on boring logs presented as **Appendix I**.

Based on the results of the January 2015 soil investigation, additional soil borings are required to completely delineate soil impacts above the Type 1/2 RRSs. The additional soil investigation will be conducted in the second quarter of 2015, and the results presented in VRP Progress Report #2.

8.3 AS/SVE/DPE Remediation System Operation

8.3.1 Vapor Treatment System Modification

Based on the estimate of remaining mass in the subsurface and an evaluation of costs for vapor treatment, an alternate technology (C3 Technology) was selected. The C3 Technology is a combination of compression, cooling, and condensation processes, with a proprietary regenerative adsorption technology that efficiently recovers VOCs from the SVE vapor stream. The chemical is recovered as a non-aqueous phase liquid that is temporarily containerized in a chemical tank for recycling or proper disposal. Generally, greater than 99.98 percent of the VOCs are recovered from the vapor stream, which exceeds the target of 95 percent of the recovered mass. In addition, prior to discharging the vapor to the atmosphere, the vapor stream is polished with the existing on-site GAC. The system started operation on October 13, 2014, with only the SVE system, and the AS system was restarted on October 21, 2014. Based on the two post-treatment vapor samples collected with the AS/SVE system operating (October 21 and 22, 2014), there were no detections of VOCs in the vapor stream being discharged to the atmosphere. The laboratory analytical data are summarized in **Table 5**, and the laboratory analytical reports are included as **Appendix C**.

8.3.2 Dual-Phase Extraction System Modification

Based on the groundwater results for MW-32 and an on-site discussion with the EPD to accelerate cleanup, MW-32 was converted to a DPE well. In October 2014, the air supply line and water discharge piping from DPE-109 were connected to MW-32. In January 2015, a pneumatic pump was installed inside the well at approximately 5 feet from the bottom to continuously recover the impacted groundwater.

8.3.3 Operational Data Collection

To monitor the performance of the AS/SVE/DPE system, the following data were collected during the reporting period:

- Depths to groundwater, DO concentrations, and pressure/vacuum readings at select monitoring wells
- Groundwater elevations calculated from depth-to-water readings
- Vacuum and flow rates of the individual SVE wells
- Pressure and flow rates of the individual AS wells
- AS and SVE hour-meter readings for associated blowers
- Vacuum, flow rate, and concentrations of recovered vapors before and after treatment
- Groundwater samples from each DPE well

Based upon performance monitoring results, the system was and continues to be adjusted and balanced to maintain the desired flow and pressure rates to maximize performance.

8.3.4 Air Sparging/Soil Vapor Extraction

The SVE system operated continuously with Zones 1 and 2 through January 29, 2015. On January 29, 2015, the system was switched to operate continuously with Zones 3 and 4. The average flow rate for each SVE well was approximately 10 scfm with a corresponding vacuum of approximately 1 in. of Hg at the wellhead, and an average total flow rate of 250 scfm with a corresponding vacuum of 2 in. of Hg at the blower.

The AS system operated with two zones on a cycle of 6 hours on and 6 hours off. From October 21, 2014 through January 29, 2015, AS Zones 100 and 200 operated to

correspond with SVE Zones 1 and 2, and on January 29, 2015, the system was switched to operate with AS Zones 300 and 400 to correspond with SVE Zones 3 and 4. The average flow rate to the AS wells was approximately 2 scfm at a wellhead pressure of up to 17 psi.

As a result of focused operation in Zone 2, VOC concentrations in the SVE vapor samples collected prior to treatment decreased 50 percent (from 17,000 milligrams per cubic meter (mg/m^3) to 8,500 mg/m^3), indicating that the remediation system is operating effectively. The laboratory analytical data are summarized in **Table 5**, and the laboratory analytical reports are included as **Appendix C**.

8.3.5 Dual-Phase Extraction

The system operated continuously with five DPE wells (DPE-109, DPE-118, DPE-305, DPE-307, and DPE-408) through July 29, 2014, when the air compressor for the DPE system was shut down for maintenance. DPE-313 did not operate during that time frame because of an elevated detection of 2-butanone during discharge monitoring sampling on April 25, 2014. Based on the detection of 2-butanone, a confirmation sample was collected on May 6, 2014, and 2-butanone was not detected above laboratory detection limits. However, as a precautionary measure, DPE-313 was shut down, because it appeared to be the most likely location from which 2-butanone would have been recovered.

Upon completion of repairs to the air compressor's oil tank, the DPE system was restarted on October 20, 2014 with the same five DPE wells, and MW-32 was added in January 2015. On February 18, 2015, water samples were collected from each of the seven DPE wells (DPE-109, DPE-118, DPE-305, DPE-307, DPE-313, DPE-408, and MW-32). The results were compared to the April 25, 2014 sample results, and the comparison indicated that total concentrations of COCs decreased 63 percent in DPE-109, 100 percent in DPE-118, 68 percent in DPE-305, 22 percent in DPE-307, and 75 percent in DPE-408. As a result of not operating DPE-313, concentrations increased 19 percent in this well. Although MW-32 was operated for less than one month, the concentrations decreased 89 percent when compared to the November 20, 2014 sample results. Therefore, DPE-313 was restarted for continuous operation on February 26, 2015. The laboratory analytical data are summarized in **Table 5** and shown on Figure 6. The laboratory analytical reports are included as **Appendix C**

8.3.6 Mass Removal

The mass removal rate for the AS/SVE/DVE system is calculated by multiplying the average vapor concentrations prior to treatment by the flow rate of the SVE system. From startup through March 26, 2015, the SVE system recovered a total of approximately 86,000 pounds of total VOCs, as detected using USEPA Method TO-15. Laboratory analytical data from the system sampling are summarized in **Table 5**.

Additionally, the C3 vapor treatment system generates approximately 8 gallons of product per day treating the recovered vapors from the SVE system. From startup on October 21, 2014 through January 13, 2015, the C3 vapor treatment system generated approximately 1,900 gallons of product, which were stored in the on-site chemical storage tank. On January 13, 2015, a licensed waste hauler transported the product to a fuel recycling facility for disposal. The laboratory analytical data for waste characterization are included in **Appendix C**, and the disposal manifest is included in **Appendix D**. The next disposal event will be scheduled for May 2015.

The mass removed from the groundwater via the DPE wells is included in the mass removal calculations for the groundwater recovery and treatment system.

8.4 Groundwater Recovery and Treatment System Operation

8.4.1 Groundwater Recovery and Treatment System

The groundwater recovery and treatment system is fully automated and operates 24 hours per day. The system is equipped with an auto-dialer that is connected to selected portions of the system's PLCs, and in an alarm condition, the system contacts the operator.

Although eight recovery wells exist on site, only six recovery wells (RW-2, RW-3, RW-4, RW-6, RW-7, and RW-8) are active. Recovery wells RW-1 and RW-5 are not operational and are no longer connected to the system. The active recovery wells as well as the DPE wells and the moisture separator pump groundwater at a combined average rate of approximately 12 gpm to a 10,000-gallon equalization tank for subsequent treatment at the on-site groundwater treatment plant. Flow from each recovery well is continuously metered and recorded periodically. Contaminated groundwater is pumped from the equalization tank to an air stripper where VOCs are removed from the groundwater. Treated groundwater is pumped from the air stripper

sump to the 10,000-gallon effluent tank. From the effluent tank, groundwater gravity flows to the City of Atlanta POTW through a 1-inch Parshall flume.

Influent groundwater is sampled from the piping prior to the equalization tank while treatment plant effluent is sampled at the effluent storage tank overflow to the Parshall flume. Influent and effluent samples are collected twice monthly and submitted to the City of Atlanta in accordance with City of Atlanta Discharge Monitoring Permit requirements.

Additionally, vapor emissions from the air stripper are treated by two 2,000-pound vapor phase carbon canisters connected in series prior to discharge to the atmosphere. Monthly air samples for VOC concentrations at the air stripper discharge stream are collected between the two carbon canisters in series. In the event of breakthrough (two consecutive months with detections), a new carbon unit is added as the second canister in the series. The first carbon canister is then recharged with fresh carbon.

8.4.2 Groundwater Recovery and Treatment System Operation

The groundwater treatment system operated 24 hours a day with the exception of brief (less than eight-hour) periods when the system was shut down to perform routine maintenance. During 2014, the treatment system processed 5,593,237 gallons of groundwater, and through March 31, 2015, the treatment system processed 1,649,992 gallons of groundwater (**Table 6a**). The average groundwater recovery rate during 2014 was approximately 10.6 gpm, and the average groundwater recovery rate through March 31, 2015 was 12.7 gpm (**Table 6b**).

In addition, VOC concentrations were detected in the vapor samples collected following primary treatment. Therefore, on April 21, 2014, the existing secondary carbon canister was moved to be the primary carbon canister, and the primary carbon canister was changed out with approximately 2,000 pounds of reactivated carbon. Following the change-out, this canister was moved to be the secondary carbon canister.

8.4.3 Mass Removal

The mass removal rate for the groundwater recovery and treatment system is calculated by multiplying the average influent analytical results by the volume of water discharged. An estimated 1,000 pounds of total VOCs, as detected using USEPA Method 8260B, were removed from groundwater during 2014 (**Table 6a**), and an

estimated 270 pounds of total VOCs were removed from groundwater through March 31, 2015 (**Table 6b**). The estimated 1,000 pounds is a significant increase compared to approximately 400 pounds in 2013. This increase in mass removal appears to be related to the addition of the DPE wells as well as the optimization of recovery well flow rates.

9. Remediation Performance Monitoring for Groundwater

The program of semiannual sampling of select groundwater monitoring wells will continue to assess the concentrations of COCs in groundwater and evaluate remedial progress under the influence of the treatment system. Groundwater analytical data from future sampling events will be used to update the CSM with regard to distribution of COCs in the saturated zone. The results of the groundwater sampling will aid in refining the extent of impacts both on and off site and will allow risk evaluations to be performed if sensitive receptors are identified. Additionally, groundwater analytical results will assist in the development of the final remediation plan.

10. Schedule

A project schedule for work elements outlined in the VRP is provided on **Figure 8**, with major milestones summarized below:

- Within 12 months of enrollment in the VRP, an updated CSM will be submitted with Progress Report #2 illustrating the completion of horizontal COC delineation.
- Within 24 months, an update will be submitted including horizontal delineation of off-site properties unless found to be technically impracticable as defined in the VRPA.
- Within 30 months, an updated CSM illustrating that vertical delineation of COCs has been completed will be prepared and submitted to the Director.

11. Reporting

Semiannual status reports will continue to be submitted updating the progress and implementation of the VIRP throughout the program. The semiannual status reports may include an updated CSM if warranted by site data. Additionally, the projected milestone schedule will be updated to show progress on VRP objectives. VRP Progress Report #2 will be submitted by October 30, 2015.



**Voluntary Investigation
and Remediation Plan –
Progress Report #1**

Former Lafarge Road
Marking, Inc.
2675 North Martin Street
East Point, Georgia

A Compliance Status Report (CSR) will be prepared for submittal to the EPD following the conclusion of data collection and interpretation activities as outlined in the VIRP. The CSR will confirm the completion of the corrective action specified in the VRP and certify compliance of the site with the applicable RRSs. The CSR will be supported with updated site figures that illustrate boring and well locations, potentiometric surface data, and soil and groundwater sampling results. Tables with borehole and well construction data, soil and groundwater analytical results, and study-related geologic, hydrogeologic, and geophysical data will also be provided.



**Voluntary Investigation
and Remediation Plan –
Progress Report #1**

Former Lafarge Road
Marking, Inc.
2675 North Martin Street
East Point, Georgia

12. References

- ARCADIS U.S., Inc. (ARCADIS). 2009a. Geologic Study Work Plan.
- ARCADIS. 2009b. Human Exposures Prevention Plan.
- ARCADIS. 2010a. Pilot Study Plan. September 3.
- ARCADIS. 2010b. Soil Assessment Report. November 19.
- ARCADIS. 2011. IAVI Report for the Building North of East Forrest Avenue and the Two On-site Buildings in the Central and the most Western Portion of the Property. January 17.
- ARCADIS. 2013. Surficial Soil Excavation Work Plan Summary. April 30.
- Cooper-Jacob. 1946.
- Dougherty-Babu. 1984.
- Duffield. 2007. AQTESOLV for Windows[®].
- GeoTrans, Inc. 2006. February 2006 Supplemental Investigation Phase I Results Report.
- Law Environmental, Inc. (Law). 1986. Report of Preliminary Contamination Assessment.
- Law. 1987. Report of Additional Assessment Activities.
- Law. 1988. Report of Geophysical Investigations, Prismo Safety site. September 20.
- Law .1989.
- Law. 1998. Revised Risk Assessment.
- Law. 1996. Human Health Risk Assessment.
- LFR, Inc. 2007. Conceptual Remedial Action Plan.



**Voluntary Investigation
and Remediation Plan –
Progress Report #1**

Former Lafarge Road
Marking, Inc.
2675 North Martin Street
East Point, Georgia

McConnell. 1984. Geology of the Greater Atlanta Region, Bulletin 96. Keith I. McConnell and Charlotte E. Abrams. Department of Natural Resources, Environmental Protection Division, Georgia Geologic Survey.

Theis. 1935.

United States Environmental Protection Agency (USEPA). 1989. Risk Assessment Guidance for Superfund, Human Health Evaluation Manual, Volume 1, Part A. Interim Final. Office of Emergency and Remedial Response, Washington, D.C. EPA/540/1-89/002. December.

USEPA. 1991. Risk Assessment Guidance for Superfund, Volume 1: Human Health Evaluation Manual, Supplemental Guidance, Standard Default Exposure Factors, Interim Final, OSWER Directive No. 9285.6-03, March 25.

USEPA. 1992. U.S. EPA. Guidelines for Exposure Assessment. U.S. Environmental Protection Agency, Risk Assessment Forum, Washington, DC, 600Z-92/001.

USEPA. 1997. Health Effects Assessment Summary Tables, FY-1997 Update. Office of Research and Development and Office of Emergency and Remedial Response, Washington, D.C. EPA 540/R-97-036. NTIS No. PB97-921199. July.

USEPA. 2000a. Supplemental Guidance to RAGS: Region 4 Bulletins, Human Health Risk Assessment Bulletins, USEPA Region 4, originally published November 1995, Web site version last updated May 2000:
<http://www.epa.gov/region4/waste/ots/healthbul.htm>.

USEPA. 2000b. Risk Characterization Handbook. EPA document number 100-B-00-002. December.

USEPA. 2002. Supplemental Guidance for Developing Soil Screening Levels for Superfund Sites. Office of Emergency and Remedial Response, Washington, D.C. OSWER 9355.4-24. December.

USEPA. 2004. Risk Assessment Guidance for Superfund, Volume I: Human Health Evaluation Manual (Part E, Supplemental Guidance for Dermal Risk Assessment), Final. Office of Superfund Remediation and Technology Innovation, Washington, D.C. OSWER 9285.7-02EP. EPA/540/R/99/005. PB99-963312. July.



**Voluntary Investigation
and Remediation Plan –
Progress Report #1**

Former Lafarge Road
Marking, Inc.
2675 North Martin Street
East Point, Georgia

USEPA. 2007a. Soil Sampling Operating Procedures, Number SESDPROC-300-R0. Region IV, Athens, Georgia. U.S. Environmental Protection Agency. February.

USEPA. 2007b. Groundwater Sampling Operating Procedure, Number SESDPROC-301-R1. Region IV, Athens, Georgia. U.S. Environmental Protection Agency, November.

USEPA. 2008. Child-Specific Exposure Factors Handbook (Final Report). U.S. Environmental Protection Agency, Washington, D.C., EPA/600/R-06/096F.

USEPA. 2009a. Regional Screening Table, April 2009. Internet access:
http://www.epa.gov/reg3hwmd/risk/human/rb-concentration_table/index.htm.

USEPA. 2009b. Current National Recommended Water Quality Criteria, Internet access: <http://www.epa.gov/waterscience/criteria/wqctable/index.html>.

USEPA. 2009c. Supplemental Guidance for Inhalation Risk Assessment, or Part F Volume I of Risk Assessment Guidance for Superfund, Human Health Evaluation Manual. OSWER No. 9285.7-82.

USEPA. 2009d. ProUCL, Version 4.00.04.

USEPA. 2009e. Integrated Risk Information System, Office of Research and Development, National Center of Environmental Assessment. Internet access: <http://www.epa.gov/iris>.

USEPA. 2015. USEPA Regional Screening Level Tables.

U.S. Geological Survey (USGS). 1997. Guidelines and Standard Procedures for Studies of Ground-Water Quality: Selection and Installation of Wells, and Supporting Documentation. Wayne W. Lapham, Franceska D. Wilde, and Michael T. Koterba, U.S. Geological Survey, Water-Resources Investigations Report 96-4233.

Tables

Table 1
Well Construction and Groundwater Elevation Summary - November 2014
Former Lafarge Road Marking
East Point, Georgia

Well No.	Screened Interval Geologic Zone	Total Depth (ft)	Depth to Water (ft)BTOC	Top of Casing Elevation (ft)	Water Level Elevation (ft)								
			Feb-13	May-13	Aug-13	Oct-13	Nov-14		Feb-13	May-13	Aug-13	Oct-13	Nov-14
MW-2	Overburden	27.7	19.37	16.56	15.27	14.62	16.67	1026.53	1007.16	1009.97	1011.26	1011.91	1009.86
MW-3	Overburden	32.8	19.39	17.47	16.00	15.42	17.67	1028.09	1008.70	1010.62	1012.09	1012.67	1010.42
MW-4	Overburden	40	20.68	18.19	17.00	15.90	18.26	1028.72	1008.04	1010.53	1011.72	1012.82	1010.46
MW-5R	Bedrock	61.2	23.36	21.35	NM	NM	19.25	1028.24	1004.88	1006.89	NM	NM	1008.99
MW-6	Overburden	40	31.12	28.48	25.99	24.32	27.38	1041.48	1010.36	1013.00	1015.49	1017.16	1014.10
MW-7	Bedrock	62.5	19.25	17.66	15.42	19.89	17.82	1027.13	1007.88	1009.47	1011.71	1007.24	1009.31
MW-8	Overburden	39.3	21.28	18.63	17.70	16.90	19.64	1027.83	1006.55	1009.20	1010.13	1010.93	1008.19
MW-9	Bedrock	81.1	13.77	11.04	10.35	9.46	11.36	1020.63	1006.86	1009.59	1010.28	1011.17	1009.27
MW-10	Overburden	57	13.93	11.52	10.79	9.80	11.53	1020.34	1006.41	1008.82	1009.55	1010.54	1008.81
MW-11	Bedrock	106.3	21.04	18.42	19.05	18.01	19.11	1023.46	1002.42	1005.04	1004.41	1005.45	1004.35
MW-12	Overburden	79.2	19.62	18.27	18.95	18.00	18.98	1022.66	1003.04	1004.39	1003.71	1004.66	1003.68
MW-13	Bedrock	97	18.59	16.29	17.45	15.23	16.91	1020.67	1002.08	1004.38	1003.22	1005.44	1003.76
MW-14	Overburden	73.7	18.79	16.11	16.20	15.38	16.00	1020.84	1002.05	1004.73	1004.64	1005.46	1004.84
MW-15	Overburden	37	23.43	20.54	19.03	18.72	20.52	1029.09	1005.66	1008.55	1010.06	1010.37	1008.57
MW-16	Bedrock	56	23.57	21.53	19.74	18.49	20.38	1029.02	1005.45	1007.49	1009.28	1010.53	1008.64
MW-17	Overburden	36.3	26.66	23.71	22.32	21.64	23.94	1033.99	1007.33	1010.28	1011.67	1012.35	1010.05
MW-18	Overburden	38	32.89	30.15	26.84	27.78	30.04	1043.04	1010.15	1012.89	1016.20	1015.26	1013.00
MW-19	Overburden	29.5	21.47	19.07	18.71	18.45	19.56	1023.68	1002.21	1004.61	1004.97	1005.23	1004.12
MW-20	Overburden	27.5	10.11	11.44	10.53	10.50	12.35	1020.98	1010.87	1009.54	1010.45	1010.48	1008.63
MW-21	Overburden	25	21.58	18.85	17.71	17.15	20.15	1028.56	1006.98	1009.71	1010.85	1011.41	1008.41
MW-22	Overburden	28	21.48	19.37	19.78	19.08	20.02	1023.45	1001.97	1004.08	1003.67	1004.37	1003.43
MW-23	Bedrock	69.5	27.03	25.40	23.70	22.35	26.88	1037.23	1010.20	1011.83	1013.53	1014.88	1010.35
MW-24	Overburden	60	28.07	25.36	24.97	22.88	27.07	1037.19	1009.12	1011.83	1012.22	1014.31	1010.12
MW-25	Deep Bedrock	200	17.22	15.09	13.31	13.41	4.76	1027.99	1010.77	1012.90	1014.68	1014.58	1023.23
MW-26	Overburden	23.5	14.98	11.46	10.52	10.23	12.01	1020.75	1005.77	1009.29	1010.23	1010.52	1008.74
MW-27	Bedrock	48.2	16.09	13.59	12.77	9.44	12.24	1021.13	1005.04	1007.54	1008.36	1011.69	1008.89
MW-28	Overburden	23.5	7.01	6.56	5.48	6.41	6.95	1008.03	1001.02	1001.47	1002.55	1001.62	1001.08
MW-29	Bedrock	45.5	7.83	5.99	6.49	5.93	6.36	1007.95	1000.12	1001.96	1001.46	1002.02	1001.59
MW-30	Bedrock	60	--	--	--	7.51	9.24	1017.75	--	--	--	1010.24	1008.51
MW-31	Overburden	35	--	--	--	7.74	9.40	1017.95	--	--	--	1010.21	1008.55
MW-32	Bedrock	60	--	--	--	16.73	18.89	1029.84	--	--	--	1013.11	1010.95
MW-33	Overburden	35	--	--	--	18.22	21.11	1029.56	--	--	--	1011.34	1008.45
RW-1	Overburden	34.5	21.74	19.98	18.59	17.94	20.17	1029.68	1007.94	1009.70	1011.09	1011.74	1009.51
RW-2	Overburden/Bedrock	70.2	NM	68.00	NM	58.08	NM	1028.05	NM	960.05	NM	969.97	NM
RW-3	Overburden/Bedrock	79.6	14.22	12.42	NM	10.92	NM	1019.89	1005.67	1007.47	NM	1008.97	NM
RW-4 ¹	Overburden/Bedrock	130.3	NM ¹	1023.06	NM ¹	NM ¹	NM ¹	NM ¹	NM				
RW-5	Overburden/Bedrock	70.2	25.61	23.50	21.94	21.14	23.02	1031.08	1005.47	1007.58	1009.14	1009.94	1008.06
RW-6	Overburden/Bedrock	60.5	17.35	14.47	NM	13.04	NM	1023.08	1005.73	1008.61	NM	1010.04	NM

Table 1
Well Construction and Groundwater Elevation Summary - November 2014
Former Lafarge Road Marking
East Point, Georgia

Well No.	Screened Interval Geologic Zone	Total Depth (ft)	Depth to	Top of Casing Elevation (ft)	Water Level								
			Water (ft)BTOC	Water (ft)BTOC	Water (ft)BTOC	Water (ft)BTOC	Water (ft)BTOC		Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
			Feb-13	May-13	Aug-13	Oct-13	Nov-14		Feb-13	May-13	Aug-13	Oct-13	Nov-14
RW-7	Overburden/Bedrock	70.2	21.50	18.60	NM	16.96	NM	1028.05	1006.55	1009.45	NM	1011.09	NM
P-2	Overburden	30	17.99	15.09	16.28	12.72	15.16	1024.73	1006.74	1009.64	1008.45	1012.01	1009.57
P-4 ²	Overburden	28	NM ²	1017.40	NM ²								
P-6	Overburden	26	18.89	16.61	16.34	14.98	15.37	1021.09	1002.20	1004.48	1004.75	1006.11	1005.72
P-7	Overburden	26	24.36	21.65	20.42	20.30	22.24	1031.51	1007.15	1009.86	1011.09	1011.21	1009.27
P-8	Overburden	35	17.32	NM ³	14.55	NM ³	15.58	1021.35	1004.03	NM ³	1006.80	NM ³	1005.77

Notes:

¹ RW-4 well seal was unable to be opened

² P-4 was covered by asphalt during landowner pavement work

³ P-8 was inaccessible during the gauging event due to an obstruction.

³ MW-5 has an unknown obstruction potentially altering the water level.

NM - Not Measured

Table 2
Planned Sample Table - Groundwater
VIRP Progress Report
Former Lafarge Marking
East Point, Georgia

			Semiannual VRP Monitoring			Quarterly Performance Monitoring			
Sample Location	Sample ID	Matrix	Sample Type	VOCs	Total Metals (lead)	Sample Type	VOCs	Total Metals (lead)	Quarterly Sampling (VOCs)
				8260B	6020		8260B	6020	8260B
MW-2	MW-2 (MMDDYYYY)	GW	N	X	X				
MW-3	MW-3 (MMDDYYYY)	GW	N	X	X				
MW-4	MW-4 (MMDDYYYY)	GW	N	X	X				
MW-5R	MW-5R (MMDDYYYY)	GW	N	X	X				
MW-6	MW-6 (MMDDYYYY)	GW	N	X					
MW-7	MW-7 (MMDDYYYY)	GW	N	X		N			X
MW-8	MW-8 (MMDDYYYY)	GW	N	X		N			X
MW-9	MW-9 (MMDDYYYY)	GW	N	X					
MW-10	MW-10 (MMDDYYYY)	GW	N	X					
MW-11	MW-11 (MMDDYYYY)	GW	N	X					
MW-12	MW-12 (MMDDYYYY)	GW	N	X					
MW-13	MW-13 (MMDDYYYY)	GW	N	X					
MW-14	MW-14 (MMDDYYYY)	GW	N	X					
MW-15	MW-15 (MMDDYYYY)	GW	N	X					
MW-16	MW-16 (MMDDYYYY)	GW	N	X					
MW-17	MW-17 (MMDDYYYY)	GW	N	X	X				
MW-18	MW-18 (MMDDYYYY)	GW	N	X					
MW-19	MW-19 (MMDDYYYY)	GW	N	X					
MW-20	MW-20 (MMDDYYYY)	GW	N	X					
MW-21	MW-21 (MMDDYYYY)	GW	N	X		N			X
MW-22	MW-22 (MMDDYYYY)	GW	N	X					
MW-23	MW-23 (MMDDYYYY)	GW	N	X					
MW-24	MW-24 (MMDDYYYY)	GW	N	X					
MW-25	MW-25 (MMDDYYYY)	GW	N	X					
MW-26	MW-26 (MMDDYYYY)	GW	N	X					
MW-27	MW-27 (MMDDYYYY)	GW	N	X					
MW-28	MW-28 (MMDDYYYY)	GW	N	X					
MW-29	MW-29 (MMDDYYYY)	GW	N	X					
MW-30	MW-30 (MMDDYYYY)	GW	N	X	X				
MW-31	MW-31 (MMDDYYYY)	GW	N	X	X				
MW-32	MW-32 (MMDDYYYY)	GW	P*	X		N			X
MW-33	MW-33 (MMDDYYYY)	GW	N	X					
MW-34	MW-34 (MMDDYYYY)	GW	N	X		N			X
MW-35	MW-35 (MMDDYYYY)	GW	N	X		N			X
MW-36	MW-36 (MMDDYYYY)	GW	N	X		N			X
MW-37	MW-37 (MMDDYYYY)	GW	N	X					
RW-02	RW-02 (MMDDYYYY)	GW	P	X		N			X
RW-03	RW-03 (MMDDYYYY)	GW	N	X					
RW-04	RW-04 (MMDDYYYY)	GW	N	X					
RW-06	RW-06 (MMDDYYYY)	GW	N	X					
RW-07	RW-07 (MMDDYYYY)	GW	N	X					
RW-08	RW-08 (MMDDYYYY)	GW	P	X		N			X
DPE-109	DPE-109 (MMDDYYYY)	GW	P*			N			X
DPE-118	DPE-118 (MMDDYYYY)	GW	P			N			X
DPE-305	DPE-305 (MMDDYYYY)	GW	P			N			X
DPE-307	DPE-307 (MMDDYYYY)	GW	P			N			X
DPE-313	DPE-313 (MMDDYYYY)	GW	P			N			X
DPE-408	DPE-408 (MMDDYYYY)	GW	P			N			X
QA/QC SAMPLES									
DUP-01	DUP-01 (MMDDYYYY)	GW	FD	X		FD	X		X
DUP-02	DUP-02 (MMDDYYYY)	GW	FD	X					
DUP-03	DUP-03 (MMDDYYYY)	GW	FD	X					
TB	TB (MMDDYYYY)	GW	TB	X		TB	X		X
EB-01	EB-01 (MMDDYYYY)	GW	EB	X		EB	X		X
EB-02	EB-02 (MMDDYYYY)	GW	EB	X					

NOTES:

Sample Type: MW - monitoring well, DUP- duplicate, PDB passive diffusive bags, N - normal sample; FD - field duplicate; EB - equipment blank; TB - trip blank, P - pumping well, no need to purge sample at manifold *(except MW-32 and DPE-109 which share piping)

Include sample date within () without slashes, i.e.(102504)

Table 3a
Historical and Recent Groundwater Analytical Summary - Organics
Former Lafarge Road Marking
East Point, Georgia

Location ID	Date Collected	Sample Name	Acetone	Benzene	Bromodichloromethane	Bromoform	Bromomethane	2-Butanone	Carbon Disulfide	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	Cyclohexane	1,2-Dibromo-3-chloropropane	Dibromochloromethane	1,2-Dibromoethane	1,2-Dichlorobenzene	1,3-Dichlorobenzene	
		Type 1 RRS Type 4 RRS	mg/L 4 46	mg/L 0.005 0.0087	mg/L -- --	mg/L -- --	mg/L -- --	mg/L -- --	mg/L -- --	mg/L 0.005 0.01	mg/L 0.1 0.14	mg/L -- --	mg/L 0.08 0.08	mg/L -- --	mg/L 0.01 18	mg/L -- --	mg/L -- --	mg/L -- --	mg/L -- --	mg/L -- --	
DPE-109	2/18/2015	DPE-109(021815)	<0.05	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.01	<0.005	<0.01	0.044	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
DPE-118	2/18/2015	DPE-118(021815)	<0.05	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.01	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
DPE-305	2/18/2015	DPE-305(021815)	<25	<2.5	<2.5	<2.5	<2.5	<25	<2.5	<2.5	<2.5	<5	<2.5	<5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
DPE-307	2/19/2015	DPE-307(021915)	<250	<25	<25	<25	<25	<250	<25	<25	<25	<50	<25	<50	<25	<25	<25	<25	<25	<25	<25
DPE-313	2/19/2015	DPE-313(021915)	<0.05	0.11	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.01	<0.005	<0.01	1.7	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
DPE-408	2/18/2015	DPE-408(021815)	<0.05	0.19	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.01	<0.005	<0.01	0.067	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
MW-02	11/24/2014	MW-2 (112414)	<0.05	2.8 D	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.01	<0.005	<0.01	0.46 D	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
MW-03	11/24/2014	MW-3 (112414)	<0.05	0.013	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.01	<0.005	<0.01	0.038	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
MW-04	11/24/2014	MW-4 (112414)	<0.05	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.01	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
MW-05R	11/24/2014	MW-5R (112414)	<0.05	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.01	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
MW-06	11/18/2014	MW-6 (111814)	<0.05	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.01	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
MW-07	11/25/2014	MW-7 (112514)	<5 [<5]	<0.5 [<0.5]	<0.5 [<0.5]	<0.5 [<0.5]	<0.5 [<0.5]	<5 [<5]	<0.5 [<0.5]	<0.5 [<0.5]	<0.5 [<0.5]	<1 [<1]	<0.5 [<0.5]	<1 [<1]	<0.5 [<0.5]	<0.5 [<0.5]	<0.5 [<0.5]	<0.5 [<0.5]	<0.5 [<0.5]	<0.5 [<0.5]	<0.5 [<0.5]
MW-07	2/18/2015	MW-7(021815)	<0.05	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.01	<0.005	<0.01	0.016	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
MW-08	11/25/2014	MW-8 (112514)	<0.05 [<0.05]	<0.005 [<0.005]	<0.005 [<0.005]	<0.005 [<0.005]	<0.005 [<0.005]	<0.05 [<0.05]	<0.005 [<0.005]	<0.005 [<0.005]	<0.005 [<0.005]	<0.01 [<0.01]	<0.005 [<0.005]	<0.01 [<0.01]	<0.005 [<0.005]	<0.005 [<0.005]	<0.005 [<0.005]	<0.005 [<0.005]	<0.005 [<0.005]	<0.005 [<0.005]	<0.005 [<0.005]

Table 3a
Historical and Recent Groundwater Analytical Summary - Organics
Former Lafarge Road Marking
East Point, Georgia

Location ID	Date Collected	Sample Name	1,4-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	Xylenes (total)	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,2-Dichloropropane	cis-1,3-Dichloropropene	trans-1,3-Dichloropropene	Ethylbenzene	Methylene Chloride	4-Methyl-2-pentanone	Methyl tert-butyl ether	Styrene	1,1,2,2-Tetrachloroethane
		Type 1 RRS Type 4 RRS	mg/L -- --	mg/L -- --	mg/L -- --	mg/L -- --	mg/L 0.007 0.52	mg/L 10 10	mg/L 0.07 0.2	mg/L 0.1 2	mg/L -- --	mg/L -- --	mg/L -- --	mg/L 0.7 0.7	mg/L 0.005 0.45	mg/L 2 4.2	mg/L -- --	mg/L -- --	mg/L -- --
DPE-109	2/18/2015	DPE-109(021815)	<0.005	<0.01	<0.005	<0.005	<0.005	NA	0.94	<0.005	<0.005	<0.005	<0.005	0.59	<0.005	<0.01	<0.005	<0.005	<0.005
DPE-118	2/18/2015	DPE-118(021815)	<0.005	<0.01	<0.005	<0.005	<0.005	NA	0.063	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005
DPE-305	2/18/2015	DPE-305(021815)	<2.5	<5	<2.5	<2.5	<2.5	NA	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<5	<2.5	<2.5	<2.5
DPE-307	2/19/2015	DPE-307(021915)	<25	<50	<25	<25	<25	NA	<25	<25	<25	<25	<25	<25	<25	<50	<25	<25	<25
DPE-313	2/19/2015	DPE-313(021915)	<0.005	<0.01	<0.005	<0.005	<0.005	NA	0.023	<0.005	<0.005	<0.005	<0.005	0.95	<0.005	0.048	<0.005	<0.005	<0.005
DPE-408	2/18/2015	DPE-408(021815)	<0.005	<0.01	<0.005	<0.005	<0.005	NA	0.66	<0.005	<0.005	<0.005	<0.005	0.34	<0.005	0.021	<0.005	<0.005	<0.005
MW-02	11/24/2014	MW-2 (112414)	<0.005	<0.01	<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	0.3 D	<0.005	<0.01	<0.005	<0.005	<0.005
MW-03	11/24/2014	MW-3 (112414)	<0.005	<0.01	<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	0.0055	<0.005	<0.01	<0.005	<0.005	<0.005
MW-04	11/24/2014	MW-4 (112414)	<0.005	<0.01	<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005
MW-05R	11/24/2014	MW-5R (112414)	<0.005	<0.01	<0.005	<0.005	<0.005	NA	0.062	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005
MW-06	11/18/2014	MW-6 (111814)	<0.005	<0.01	<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005
MW-07	11/25/2014	MW-7 (112514)	<0.5 [<0.5]	<1 [<1]	<0.5 [<0.5]	<0.5 [<0.5]	<0.5 [<0.5]	NA	15 [16]	<0.5 [<0.5]	<0.5 [<0.5]	<0.5 [<0.5]	<0.5 [<0.5]	<0.5 [<0.5]	<0.5 [<0.5]	<1 [<1]	<0.5 [<0.5]	<0.5 [<0.5]	<0.5 [<0.5]
MW-07	2/18/2015	MW-7(021815)	<0.005	<0.01	<0.005	<0.005	0.027	NA	12	0.0064	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005
MW-08	11/25/2014	MW-8 (112514)	<0.005 [<0.005]	<0.01 [<0.01]	<0.005 [<0.005]	<0.005 [<0.005]	<0.005 [<0.005]	NA	0.017 [0.016 J]	<0.005 [<0.005]	<0.005 [<0.005]	<0.005 [<0.005]	<0.005 [<0.005]	<0.005 [<0.005]	<0.005 [<0.005]	<0.01 [<0.01]	<0.005 [<0.005]	<0.005 [<0.005]	<0.005 [<0.005]

Table 3a
Historical and Recent Groundwater Analytical Summary - Organics
Former Lafarge Road Marking
East Point, Georgia

Location ID	Date Collected	Sample Name	Tetrachloroethene	Toluene	1,2,4-Trichlorobenzene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene	Trichlorofluoromethane	1,1,2-trichloro-1,2,2-trifluoroethane	Vinyl Chloride	m,p-Xylene	o-Xylene
		Type 1 RRS Type 4 RRS	mg/L 0.005 0.098	mg/L 1 5.2	mg/L -- --	mg/L 0.2 14	mg/L 0.005 0.41	mg/L 0.005 0.0052	mg/L -- --	mg/L -- --	mg/L 0.002 0.002	mg/L -- --	mg/L 0.001 0.29
DPE-109	2/18/2015	DPE-109(021815)	<0.005	4.1	<0.005	<0.005	<0.005	0.056	<0.005	<0.01	0.0052	2.1	0.79
DPE-118	2/18/2015	DPE-118(021815)	<0.005	<0.005	<0.005	<0.005	<0.005	0.033	<0.005	<0.01	<0.002	<0.005	<0.005
DPE-305	2/18/2015	DPE-305(021815)	<2.5	27	<2.5	<2.5	<2.5	<2.5	<2.5	<5	<1	11	2.6
DPE-307	2/19/2015	DPE-307(021915)	<25	160	<25	<25	<25	<25	<25	<50	<10	<25	<25
DPE-313	2/19/2015	DPE-313(021915)	<0.005	0.89	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.002	2.6	0.33
DPE-408	2/18/2015	DPE-408(021815)	<0.005	4.1	<0.005	<0.005	<0.005	0.019	<0.005	<0.01	0.0054	1.5	0.44
MW-02	11/24/2014	MW-2 (112414)	<0.005	0.061	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	0.48 D	0.84 D	0.048
MW-03	11/24/2014	MW-3 (112414)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.002	0.014	<0.005
MW-04	11/24/2014	MW-4 (112414)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.002	<0.005	<0.005
MW-05R	11/24/2014	MW-5R (112414)	<0.005	<0.005	<0.005	<0.005	<0.005	0.15	<0.005	<0.01	<0.002	<0.005	<0.005
MW-06	11/18/2014	MW-6 (111814)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.002	<0.005	<0.005
MW-07	11/25/2014	MW-7 (112514)	<0.5 [<0.5]	<0.5 [<0.5]	<0.5 [<0.5]	<0.5 [<0.5]	<0.5 [<0.5]	18 [19]	<0.5 [<0.5]	<1 [<1]	<0.2 [<0.2]	<0.5 [<0.5]	<0.5 [<0.5]
MW-07	2/18/2015	MW-7(021815)	0.0084	<0.005	<0.005	<0.005	<0.005	12	<0.005	<0.01	<0.002	<0.005	<0.005
MW-08	11/25/2014	MW-8 (112514)	<0.005 [<0.005]	<0.005 [<0.005]	<0.005 [<0.005]	<0.005 [<0.005]	<0.005 [<0.005]	<0.005 [<0.005]	<0.005 [<0.005]	<0.01 [<0.01]	0.0029 [0.0028]	<0.005 [<0.005]	<0.005 [<0.005]

Table 3a
Historical and Recent Groundwater Analytical Summary - Organics
Former Lafarge Road Marking
East Point, Georgia

Location ID	Date Collected	Sample Name	Acetone	Benzene	Bromodichloromethane	Bromoform	Bromomethane	2-Butanone	Carbon Disulfide	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	Cyclohexane	1,2-Dibromo-3-chloropropane	Dibromochloromethane	1,2-Dibromoethane	1,2-Dichlorobenzene	1,3-Dichlorobenzene	
		Type 1 RRS Type 4 RRS	mg/L 4 46	mg/L 0.005 0.0087	mg/L -- --	mg/L -- --	mg/L -- --	mg/L -- --	mg/L -- --	mg/L 0.005 0.01	mg/L 0.1 0.14	mg/L -- --	mg/L 0.08 0.08	mg/L -- --	mg/L 0.01 18	mg/L -- --	mg/L -- --	mg/L -- --	mg/L -- --	mg/L -- --	
MW-08	2/18/2015	MW-8(021815)	<0.05	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.01	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
MW-09	11/21/2014	MW-9 (112114)	<0.05	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.01	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
MW-10	11/21/2014	MW-10 (112114)	<0.05	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	0.0055	<0.01	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
MW-11	11/20/2014	MW-11 (112014)	<0.05	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.01	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
MW-12	11/19/2014	MW-12 (111914)	<0.05	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.01	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
MW-13	11/19/2014	MW-13 (111914)	<0.05	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.01	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
MW-14	11/19/2014	MW-14 (111914)	<0.05	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.01	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
MW-15	11/19/2014	MW-15 (111914)	<0.05	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.01	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
MW-16	11/19/2014	MW-16 (111914)	<0.05	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.01	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
MW-17	11/24/2014	MW-17 (112414)	<0.05	0.36 D	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.01	<0.005	<0.01	1.6 D	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

Table 3a
Historical and Recent Groundwater Analytical Summary - Organics
Former Lafarge Road Marking
East Point, Georgia

Location ID	Date Collected	Sample Name	1,4-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	Xylenes (total)	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,2-Dichloropropane	cis-1,3-Dichloropropene	trans-1,3-Dichloropropene	Ethylbenzene	Methylene Chloride	4-Methyl-2-pentanone	Methyl tert-butyl ether	Styrene	1,1,2,2-Tetrachloroethane
		Type 1 RRS	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
		Type 4 RRS	--	--	--	--	0.007	10	0.07	0.1	--	--	--	0.7	0.005	2	--	--	--
			--	--	--	--	0.52	10	0.2	2	--	--	--	0.7	0.45	4.2	--	--	--
MW-08	2/18/2015	MW-8(021815)	<0.005	<0.01	<0.005	<0.005	<0.005	NA	0.0077	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005
MW-09	11/21/2014	MW-9 (112114)	<0.005	<0.01	<0.005	<0.005	<0.005	NA	0.017	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005
MW-10	11/21/2014	MW-10 (112114)	<0.005	<0.01	<0.005	<0.005	<0.005	NA	0.0053	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005
MW-11	11/20/2014	MW-11 (112014)	<0.005	<0.01	<0.005	<0.005	<0.005	NA	0.0076	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005
MW-12	11/19/2014	MW-12 (111914)	<0.005	<0.01	<0.005	<0.005	<0.005	NA	0.033	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005
MW-13	11/19/2014	MW-13 (111914)	<0.005	<0.01	<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005
MW-14	11/19/2014	MW-14 (111914)	<0.005	<0.01	<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005
MW-15	11/19/2014	MW-15 (111914)	<0.005	<0.01	<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005
MW-16	11/19/2014	MW-16 (111914)	<0.005	<0.01	<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005
MW-17	11/24/2014	MW-17 (112414)	<0.005	<0.01	<0.005	<0.005	<0.005	NA	0.017	<0.005	<0.005	<0.005	<0.005	0.1	<0.005	<0.01	<0.005	<0.005	<0.005

Table 3a
Historical and Recent Groundwater Analytical Summary - Organics
Former Lafarge Road Marking
East Point, Georgia

Location ID	Date Collected	Sample Name	Tetrachloroethene	Toluene	1,2,4-Trichlorobenzene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene	Trichlorofluoromethane	1,1,2-trichloro-1,2,2-trifluoroethane	Vinyl Chloride	m,p-Xylene	o-Xylene
		Type 1 RRS	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
		Type 4 RRS	0.005	1	--	0.2	0.005	0.005	--	--	0.002	--	0.001
			0.098	5.2	--	14	0.41	0.0052	--	--	0.002	--	0.29
MW-08	2/18/2015	MW-8(021815)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	0.011	<0.005	<0.005
MW-09	11/21/2014	MW-9 (112114)	<0.005	<0.005	<0.005	<0.005	<0.005	0.019	<0.005	<0.01	0.0067	<0.005	<0.005
MW-10	11/21/2014	MW-10 (112114)	<0.005	0.0053	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	0.003	<0.005	<0.005
MW-11	11/20/2014	MW-11 (112014)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.002	<0.005	<0.005
MW-12	11/19/2014	MW-12 (111914)	<0.005	<0.005	<0.005	<0.005	<0.005	0.0079	<0.005	<0.01	<0.002	<0.005	<0.005
MW-13	11/19/2014	MW-13 (111914)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.002	<0.005	<0.005
MW-14	11/19/2014	MW-14 (111914)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.002	<0.005	<0.005
MW-15	11/19/2014	MW-15 (111914)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.002	<0.005	<0.005
MW-16	11/19/2014	MW-16 (111914)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.002	<0.005	<0.005
MW-17	11/24/2014	MW-17 (112414)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	0.0066	0.3	<0.005

Table 3a
Historical and Recent Groundwater Analytical Summary - Organics
Former Lafarge Road Marking
East Point, Georgia

Location ID	Date Collected	Sample Name	Acetone	Benzene	Bromodichloromethane	Bromoform	Bromomethane	2-Butanone	Carbon Disulfide	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	Cyclohexane	1,2-Dibromo-3-chloropropane	Dibromochloromethane	1,2-Dibromoethane	1,2-Dichlorobenzene	1,3-Dichlorobenzene	
		Type 1 RRS Type 4 RRS	mg/L 4 46	mg/L 0.005 0.0087	mg/L -- --	mg/L -- --	mg/L -- --	mg/L -- --	mg/L -- --	mg/L 0.005 0.01	mg/L 0.1 0.14	mg/L -- --	mg/L 0.08 0.08	mg/L -- --	mg/L 0.01 18	mg/L -- --	mg/L -- --	mg/L -- --	mg/L -- --	mg/L -- --	
MW-18	11/18/2014	MW-18 (111814)	<0.05	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.01	0.0052	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
MW-19	11/19/2014	MW-19 (111914)	<0.05	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.01	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
MW-20	11/21/2014	MW-20 (112114)	<0.05	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.01	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
MW-21	11/25/2014	MW-21 (112514)	<0.05 [<0.05]	0.038 [0.038]	<0.005 [<0.005]	<0.005 [<0.005]	<0.005 [<0.005]	<0.05 [<0.05]	<0.005 [<0.005]	<0.005 [<0.005]	<0.005 [<0.005]	<0.01 [<0.01]	<0.005 [<0.005]	<0.01 [<0.01]	0.12 [0.11]	<0.005 [<0.005]	<0.005 [<0.005]	<0.005 [<0.005]	<0.005 [<0.005]	<0.005 [<0.005]	<0.005 [<0.005]
MW-21	2/18/2015	MW-21(021815)	<0.05	0.022	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.01	<0.005	<0.01	0.073	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
MW-22	11/19/2014	MW-22 (111914)	<0.05	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.01	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
MW-23	11/18/2014	MW-23 (111814)	<0.05	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.01	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
MW-24	11/19/2014	MW-24 (111914)	<0.05	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.01	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
MW-25	11/25/2014	MW-25 (112514)	<0.05	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.01	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
MW-26	11/20/2014	MW-26 (112014)	<0.05	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.01	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
MW-27	11/20/2014	MW-27 (112014)	<0.05	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.01	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

Table 3a
Historical and Recent Groundwater Analytical Summary - Organics
Former Lafarge Road Marking
East Point, Georgia

Location ID	Date Collected	Sample Name	1,4-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	Xylenes (total)	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,2-Dichloropropane	cis-1,3-Dichloropropene	trans-1,3-Dichloropropene	Ethylbenzene	Methylene Chloride	4-Methyl-2-pentanone	Methyl tert-butyl ether	Styrene	1,1,2,2-Tetrachloroethane
		Type 1 RRS	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
		Type 4 RRS	--	--	--	--	0.007	10	0.07	0.1	--	--	--	0.7	0.005	2	--	--	--
			--	--	--	--	0.52	10	0.2	2	--	--	--	0.7	0.45	4.2	--	--	--
MW-18	11/18/2014	MW-18 (111814)	<0.005	<0.01	<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005
MW-19	11/19/2014	MW-19 (111914)	<0.005	<0.01	<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005
MW-20	11/21/2014	MW-20 (112114)	<0.005	<0.01	<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005
MW-21	11/25/2014	MW-21 (112514)	<0.005 [<0.005]	<0.01 [<0.01]	<0.005 [<0.005]	<0.005 [<0.005]	0.0091 [0.0092]	NA	7.8 D [7.8 D]	0.0092 [0.0092]	<0.005 [<0.005]	<0.005 [<0.005]	<0.005 [<0.005]	<0.005 [<0.005]	<0.005 [<0.005]	<0.01 [<0.01]	<0.005 [<0.005]	<0.005 [<0.005]	<0.005 [<0.005]
MW-21	2/18/2015	MW-21(021815)	<0.005	<0.01	<0.005	<0.005	0.0058	NA	5.1	0.0066	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005
MW-22	11/19/2014	MW-22 (111914)	<0.005	<0.01	<0.005	<0.005	<0.005	NA	0.015	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005
MW-23	11/18/2014	MW-23 (111814)	<0.005	<0.01	<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005
MW-24	11/19/2014	MW-24 (111914)	<0.005	<0.01	<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005
MW-25	11/25/2014	MW-25 (112514)	<0.005	<0.01	<0.005	<0.005	<0.005	NA	<0.005 J	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005
MW-26	11/20/2014	MW-26 (112014)	<0.005	<0.01	<0.005	<0.005	<0.005	NA	0.12	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005
MW-27	11/20/2014	MW-27 (112014)	<0.005	<0.01	<0.005	<0.005	<0.005	NA	1.1 D	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005

Table 3a
Historical and Recent Groundwater Analytical Summary - Organics
Former Lafarge Road Marking
East Point, Georgia

Location ID	Date Collected	Sample Name	Tetrachloroethene	Toluene	1,2,4-Trichlorobenzene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene	Trichlorofluoromethane	1,1,2-trichloro-1,2,2-trifluoroethane	Vinyl Chloride	m,p-Xylene	o-Xylene
		Type 1 RRS Type 4 RRS	mg/L 0.005 0.098	mg/L 1 5.2	mg/L -- --	mg/L 0.2 14	mg/L 0.005 0.41	mg/L 0.005 0.0052	mg/L -- --	mg/L -- --	mg/L 0.002 0.002	mg/L -- --	mg/L 0.001 0.29
MW-18	11/18/2014	MW-18 (111814)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.002	<0.005	<0.005
MW-19	11/19/2014	MW-19 (111914)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.002	<0.005	<0.005
MW-20	11/21/2014	MW-20 (112114)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.002	<0.005	<0.005
MW-21	11/25/2014	MW-21 (112514)	<0.005 [<0.005]	0.0065 [0.0068]	<0.005 [<0.005]	<0.005 [<0.005]	<0.005 [<0.005]	<0.005 [<0.005]	<0.005 [<0.005]	<0.01 [<0.01]	0.26 D [0.27 D]	<0.005 [<0.005]	<0.005 [<0.005]
MW-21	2/18/2015	MW-21(021815)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	0.29	<0.005	<0.005
MW-22	11/19/2014	MW-22 (111914)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.002	<0.005	<0.005
MW-23	11/18/2014	MW-23 (111814)	<0.005	<0.005	<0.005	<0.005	<0.005	0.0064	0.012	<0.01	<0.002	<0.005	<0.005
MW-24	11/19/2014	MW-24 (111914)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.002	<0.005	<0.005
MW-25	11/25/2014	MW-25 (112514)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.002	<0.005	<0.005
MW-26	11/20/2014	MW-26 (112014)	<0.005	<0.005	<0.005	<0.005	<0.005	0.013	<0.005	<0.01	<0.002	<0.005	<0.005
MW-27	11/20/2014	MW-27 (112014)	<0.005	<0.005	<0.005	<0.005	<0.005	0.069	<0.005	<0.01	0.0056	<0.005	<0.005

Table 3a
Historical and Recent Groundwater Analytical Summary - Organics
Former Lafarge Road Marking
East Point, Georgia

Location ID	Date Collected	Sample Name	Acetone	Benzene	Bromodichloromethane	Bromoform	Bromomethane	2-Butanone	Carbon Disulfide	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	Cyclohexane	1,2-Dibromo-3-chloropropane	Dibromochloromethane	1,2-Dibromoethane	1,2-Dichlorobenzene	1,3-Dichlorobenzene	
		Type 1 RRS Type 4 RRS	mg/L 4 46	mg/L 0.005 0.0087	mg/L -- --	mg/L -- --	mg/L -- --	mg/L -- --	mg/L -- --	mg/L 0.005 0.01	mg/L 0.1 0.14	mg/L -- --	mg/L 0.08 0.08	mg/L -- --	mg/L 0.01 18	mg/L -- --	mg/L -- --	mg/L -- --	mg/L -- --	mg/L -- --	
MW-28	11/20/2014	MW-28 (112014)	<0.05	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.01	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
MW-29	11/20/2014	MW-29 (112014)	<0.05	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.01	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
MW-30	11/24/2014	MW-30 (112414)	<0.05	0.059	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.01	<0.005	<0.01	0.015	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
MW-31	11/20/2014	MW-31 (112014)	<0.05	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.01	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
MW-32	11/20/2014	MW-32 (112014)	1.1 D	0.049 J	<0.005 J	<0.005	<0.005	0.55 D	<0.005	<0.005 J	<0.005	<0.01	0.0066 J	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
MW-32	2/18/2015	MW-32(021815)	<25	<2.5	<2.5	<2.5	<2.5	<25	<2.5	<2.5	<2.5	<5	<2.5	<5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
MW-33	11/24/2014	MW-33 (112414)	<0.05	0.0077	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.01	<0.005	<0.01	0.081	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
MW-34	11/24/2014	MW-34 (112414)	<0.05	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.01	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
MW-34	2/18/2015	MW-34(021815)	<0.05	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.01	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
MW-35	11/24/2014	MW-35 (112414)	<5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW-35	2/18/2015	MW-35(021815)	<0.05	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.01	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
MW-36	11/20/2014	MW-36 (112014)	<0.05	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.01	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
MW-36	2/18/2015	MW-36(021815)	<0.05	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.01	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
RW-02	11/25/2014	RW-2 (112514)	<0.05	0.2	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.01	<0.005	<0.01	0.024	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
RW-02	2/18/2015	RW-2(021815)	<2.5	<0.25	<0.25	<0.25	<2.5	<0.25	<0.25	<0.25	<0.25	<0.5	<0.25	<0.5	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
RW-03	11/17/2014	RW-3 (111714)	<0.05	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.01	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
RW-04	11/17/2014	RW-4 (111714)	<0.05	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.01	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
RW-06	11/17/2014	RW-6 (111714)	<0.05	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.01	<0.005	<0.01	0.0057	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
RW-08	11/17/2014	RW-8 (111714)	<0.05	0.47 D	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.01	<0.005	<0.01	0.074	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
RW-08	2/18/2015	RW-8(021815)	<0.05	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.01	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

Exceeds Type 1 RRS
Exceeds Type 4 RRS
Bold Detected above laboratory reporting limits

Table 3a
Historical and Recent Groundwater Analytical Summary - Organics
Former Lafarge Road Marking
East Point, Georgia

Location ID	Date Collected	Sample Name	1,4-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	Xylenes (total)	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,2-Dichloropropane	cis-1,3-Dichloropropene	trans-1,3-Dichloropropene	Ethylbenzene	Methylene Chloride	4-Methyl-2-pentanone	Methyl tert-butyl ether	Styrene	1,1,2,2-Tetrachloroethane
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
		Type 1 RRS	--	--	--	--	0.007	10	0.07	0.1	--	--	--	0.7	0.005	2	--	--	--
		Type 4 RRS	--	--	--	--	0.52	10	0.2	2	--	--	--	0.7	0.45	4.2	--	--	--
MW-28	11/20/2014	MW-28 (112014)	<0.005	<0.01	<0.005	<0.005	<0.005	NA	2 D	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005
MW-29	11/20/2014	MW-29 (112014)	<0.005	<0.01	<0.005	<0.005	<0.005	NA	2.9 D	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005
MW-30	11/24/2014	MW-30 (112414)	<0.005	<0.01	<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	0.021	<0.005	<0.01	<0.005	<0.005	<0.005
MW-31	11/20/2014	MW-31 (112014)	<0.005	<0.01	<0.005	<0.005	<0.005	NA	0.006	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005
MW-32	11/20/2014	MW-32 (112014)	<0.005	<0.01	<0.005 J	<0.005	0.081 J	NA	0.014 J	<0.005	<0.005	<0.005 J	<0.005 J	0.58 D	0.13 J	0.47 DJ	<0.005	<0.005	<0.005
MW-32	2/18/2015	MW-32(021815)	<2.5	<5	<2.5	<2.5	<2.5	NA	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<5	<2.5	<2.5	<2.5
MW-33	11/24/2014	MW-33 (112414)	<0.005	<0.01	<0.005	<0.005	<0.005	NA	0.66 D	<0.005	<0.005	<0.005	<0.005	0.42 D	<0.005	<0.01	<0.005	<0.005	<0.005
MW-34	11/24/2014	MW-34 (112414)	<0.005	<0.01	<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005
MW-34	2/18/2015	MW-34(021815)	<0.005	<0.01	<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005
MW-35	11/24/2014	MW-35 (112414)	<0.5	<1	<0.5	<0.5	<0.5	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5
MW-35	2/18/2015	MW-35(021815)	<0.005	<0.01	<0.005	<0.005	<0.005	NA	0.045	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005
MW-36	11/20/2014	MW-36 (112014)	<0.005	<0.01	<0.005	<0.005	0.033	NA	9.6 D	<0.005	<0.005	<0.005	<0.005	0.011	<0.005	0.02	<0.005	<0.005	<0.005
MW-36	2/18/2015	MW-36(021815)	<0.005	<0.01	<0.005	<0.005	0.029	NA	9.2	<0.005	<0.005	<0.005	<0.005	0.007	<0.005	<0.01	<0.005	<0.005	<0.005
RW-02	11/25/2014	RW-2 (112514)	<0.005	<0.01	<0.005	<0.005	0.0051	NA	3.6 D	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.013	<0.005	<0.005	<0.005
RW-02	2/18/2015	RW-2(021815)	<0.25	<0.5	<0.25	<0.25	<0.25	NA	2	<0.25	<0.25	<0.25	<0.25	0.28	<0.25	<0.5	<0.25	<0.25	<0.25
RW-03	11/17/2014	RW-3 (111714)	<0.005	<0.01	<0.005	<0.005	<0.005	NA	0.009	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005
RW-04	11/17/2014	RW-4 (111714)	<0.005	<0.01	<0.005	<0.005	<0.005	NA	0.0066	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005
RW-06	11/17/2014	RW-6 (111714)	<0.005	<0.01	<0.005	<0.005	<0.005	NA	0.37 D	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005
RW-08	11/17/2014	RW-8 (111714)	<0.005	<0.01	<0.005	<0.005	0.013	NA	9.8 D	<0.005	<0.005	<0.005	<0.005	0.53 D	<0.005	0.04	<0.005	<0.005	<0.005
RW-08	2/18/2015	RW-8(021815)	<0.005	<0.01	<0.005	<0.005	<0.005	NA	0.63	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005

Exceeds Type 1 RRS
Exceeds Type 4 RRS
Detected above laboratory reporting lim

Table 3a
Historical and Recent Groundwater Analytical Summary - Organics
Former Lafarge Road Marking
East Point, Georgia

Location ID	Date Collected	Sample Name	Tetrachloroethene	Toluene	1,2,4-Trichlorobenzene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene	Trichlorofluoromethane	1,1,2-trichloro-1,2,2-trifluoroethane	Vinyl Chloride	m,p-Xylene	o-Xylene
		Type 1 RRS	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
		Type 4 RRS	0.005	1	--	0.2	0.005	0.005	--	--	0.002	--	0.001
			0.098	5.2	--	14	0.41	0.0052	--	--	0.002	--	0.29
MW-28	11/20/2014	MW-28 (112014)	<0.005	<0.005	<0.005	<0.005	<0.005	0.47 D	<0.005	<0.01	0.0092	<0.005	<0.005
MW-29	11/20/2014	MW-29 (112014)	<0.005	<0.005	<0.005	<0.005	<0.005	0.48 D	<0.005	<0.01	0.023	<0.005	<0.005
MW-30	11/24/2014	MW-30 (112414)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	0.0021	0.054	<0.005
MW-31	11/20/2014	MW-31 (112014)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	0.032	<0.005	<0.005
MW-32	11/20/2014	MW-32 (112014)	0.026 J	12 DJ	<0.005	0.036 J	0.11 J	540 DJ	<0.005	<0.01	<0.002	2.1 D	0.57 D
MW-32	2/18/2015	MW-32(021815)	<2.5	<2.5	<2.5	<2.5	<2.5	59	<2.5	<5	<1	<2.5	<2.5
MW-33	11/24/2014	MW-33 (112414)	<0.005	2 D	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	0.09	0.92 D	0.38 D
MW-34	11/24/2014	MW-34 (112414)	<0.005	<0.005	<0.005	<0.005	<0.005	0.4 D	<0.005	<0.01	<0.002	<0.005	<0.005
MW-34	2/18/2015	MW-34(021815)	<0.005	<0.005	<0.005	<0.005	<0.005	0.16	<0.005	<0.01	<0.002	<0.005	<0.005
MW-35	11/24/2014	MW-35 (112414)	<0.5	<0.5	<0.5	<0.5	<0.5	69 D	<0.5	<1	<0.2	<0.5	<0.5
MW-35	2/18/2015	MW-35(021815)	<0.005	<0.005	<0.005	<0.005	<0.005	8.4	<0.005	<0.01	<0.002	<0.005	<0.005
MW-36	11/20/2014	MW-36 (112014)	<0.005	0.051	<0.005	<0.005	<0.005	5.5 D	<0.005	<0.01	0.01	0.015	<0.005
MW-36	2/18/2015	MW-36(021815)	<0.005	0.034	<0.005	<0.005	<0.005	4.8	<0.005	<0.01	0.01	0.0078	<0.005
RW-02	11/25/2014	RW-2 (112514)	<0.005	4.5 D	<0.005	<0.005	<0.005	0.18	<0.005	<0.01	0.48 D	0.89 D	0.32 D
RW-02	2/18/2015	RW-2(021815)	<0.25	8.9	<0.25	<0.25	<0.25	<0.25	<0.25	<0.5	0.42	1.4	0.46
RW-03	11/17/2014	RW-3 (111714)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	0.0088	<0.005	<0.005
RW-04	11/17/2014	RW-4 (111714)	<0.005	<0.005	<0.005	<0.005	<0.005	0.0054	<0.005	<0.01	<0.002	<0.005	<0.005
RW-06	11/17/2014	RW-6 (111714)	<0.005	<0.005	<0.005	<0.005	<0.005	0.013	<0.005	<0.01	0.019	<0.005	<0.005
RW-08	11/17/2014	RW-8 (111714)	<0.005	20 D	<0.005	<0.005	<0.005	0.12	<0.005	<0.01	1 D	2.2 D	0.65 D
RW-08	2/18/2015	RW-8(021815)	<0.005	<0.005	<0.005	<0.005	<0.005	0.17	<0.005	<0.01	0.0021	<0.005	<0.005

Exceeds Type 1 RRS
Exceeds Type 4 RRS
Bold Detected above laboratory reporting lim

Table 3b
Historical and Recent Groundwater Analytical Summary - Lead
Former Lafare Road Marking
East Point, Georgia

Location ID	Date Collected	Lead
	Type 1 RRS	mg/L 0.015
	Type 4 RRS	0.015
MW-02	5/16/2013	<0.0100
MW-02	10/7/2013	<0.0100
MW-02	5/30/2014	<0.0100
MW-02	11/24/2014	<0.0100
MW-03	10/8/2013	<0.0100
MW-03	11/24/2014	<0.0100
MW-04	10/8/2013	0.0141
MW-04	11/24/2014	<0.0100
MW-05R	11/24/2014	<0.0100
MW-07	10/8/2013	<0.0100
MW-08	10/8/2013	<0.0100
MW-17	10/7/2013	0.0279
MW-17	11/24/2014	<0.0100
MW-21	10/8/2013	<0.0100
MW-26	10/7/2013	<0.0100
MW-30	10/8/2013	<0.0100
MW-30	11/24/2014	<0.0100
MW-31	10/8/2013	<0.0100
MW-31	11/20/2014	<0.0100
MW-32	10/8/2013	<0.0100
MW-33	10/8/2013	<0.0100

Exceeds Type 1 RRS
Exceeds Type 4 RRS

Table 4a
Historical and Recent Soil Analytical Summary - Organics
Former Lafarge Road Marking
East Point, Georgia

Location ID	Depth	Date	Acetone	Benzene	Bromodichloromethane	Bromoform	Bromomethane	2-Butanone	Carbon Disulfide	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	Cyclohexane	1,2-Dibromoethane	1,2-Dichlorobenzene	1,3-Dichlorobenzene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
		Type 2 RRS	400	0.5	-	-	-	-	-	0.5	10		1		74			
		Type 4 RRS	400	0.5	-	-	-	-	-	0.5	10		1.3		368			
SB-1	1 - 2	3/9/2010	<0.088	0.011	NA	NA	NA	<0.044	<0.0088	NA	NA	NA	NA	NA	0.0076	NA	NA	NA
SB-1	15 - 17	3/9/2010	<460	<23	NA	NA	NA	<230	<46	NA	NA	NA	NA	NA	<23	NA	NA	NA
SB-1	20 - 22	3/9/2010	<0.074	0.015	NA	NA	NA	<0.037	0.011	NA	NA	NA	NA	NA	3.8	NA	NA	NA
SB-2	1 - 2	3/9/2010	<0.088	0.037	NA	NA	NA	<0.044	<0.0088	NA	NA	NA	NA	NA	0.016	NA	NA	NA
SB-2	13 - 15	3/9/2010	<54	<2.7	NA	NA	NA	<27	<5.4	NA	NA	NA	NA	NA	<2.7	NA	NA	NA
SB-2	20 - 22	3/9/2010	<43	<2.2	NA	NA	NA	<22	<4.3	NA	NA	NA	NA	NA	<2.2	NA	NA	NA
SB-3	1 - 2	3/9/2010	<0.086	0.013	NA	NA	NA	<0.043	<0.0086	NA	NA	NA	NA	NA	0.0088	NA	NA	NA
SB-3	8 - 10	3/9/2010	<0.069	0.016	NA	NA	NA	<0.035	<0.0069	NA	NA	NA	NA	NA	<0.0035	NA	NA	NA
SB-3	20 - 22	3/9/2010	<0.091	0.063	NA	NA	NA	<0.046	<0.0091	NA	NA	NA	NA	NA	<0.0046	NA	NA	NA
SB-4	1 - 2	3/9/2010	<39	<2	NA	NA	NA	<20	<3.9	NA	NA	NA	NA	NA	<2	NA	NA	NA
SB-4	18 - 20	3/9/2010	<0.092	0.3	NA	NA	NA	<0.046	<0.0092	NA	NA	NA	NA	NA	0.014	NA	NA	NA
SB-4	20 - 22	3/9/2010	<50	<2.5	NA	NA	NA	<25	<5	NA	NA	NA	NA	NA	<2.5	NA	NA	NA
SB-5	1 - 2	3/9/2010	<45	<2.3	NA	NA	NA	<23	<4.5	NA	NA	NA	NA	NA	<2.3	NA	NA	NA
SB-5	10 - 12	3/9/2010	<440	<22	NA	NA	NA	<220	<44	NA	NA	NA	NA	NA	<22	NA	NA	NA
SB-5	20 - 22	3/9/2010	<420	<21	NA	NA	NA	<210	<42	NA	NA	NA	NA	NA	<21	NA	NA	NA
SB-6	1 - 2	3/9/2010	<0.098	<0.0049	NA	NA	NA	<0.049	<0.0098	NA	NA	NA	NA	NA	<0.0049	NA	NA	NA
SB-6	10 - 12	3/9/2010	<850	<42	NA	NA	NA	<420	<85	NA	NA	NA	NA	NA	<42	NA	NA	NA
SB-6	20 - 22	3/9/2010	<410	<20	NA	NA	NA	<200	<41	NA	NA	NA	NA	NA	39	NA	NA	NA
SB-7	1 - 2	3/9/2010	<8.7	<0.43	NA	NA	NA	<4.3	<0.87	NA	NA	NA	NA	NA	<0.43	NA	NA	NA
SB-7	8 - 10	3/9/2010	<450	<23	NA	NA	NA	<230	<45	NA	NA	NA	NA	NA	<23	NA	NA	NA
SB-7	20 - 22	3/9/2010	<430	<22	NA	NA	NA	<220	<43	NA	NA	NA	NA	NA	<22	NA	NA	NA
SB-8	1 - 2	3/9/2010	0.2	<0.0039	NA	NA	NA	<0.039	<0.0077	NA	NA	NA	NA	NA	<0.0039	NA	NA	NA
SB-8	13 - 15	3/9/2010	<44	<2.2	NA	NA	NA	<22	<4.4	NA	NA	NA	NA	NA	35	NA	NA	NA
SB-8	20 - 22	3/9/2010	<41	<2	NA	NA	NA	<20	<4.1	NA	NA	NA	NA	NA	17	NA	NA	NA
SB-9	1 - 2	3/9/2010	<400	<20	NA	NA	NA	<200	<40	NA	NA	NA	NA	NA	<20	NA	NA	NA
SB-9	5 - 7	3/9/2010	<42	<2.1	NA	NA	NA	45	<4.2	NA	NA	NA	NA	NA	<2.1	NA	NA	NA
SB-9	20 - 22	3/9/2010	<410	<20	NA	NA	NA	<200	<41	NA	NA	NA	NA	NA	<20	NA	NA	NA
SB-10	1 - 2	8/24/2010	<2.8 *	<0.28	NA	NA	NA	<1.4	<0.56	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-10	12.5 - 15	8/24/2010	<0.062 *	0.079	NA	NA	NA	<0.031	<0.012	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-10	17.5 - 20	8/24/2010	<310 *	<31	NA	NA	NA	<150	<61	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-11	1 - 2	8/24/2010	<5.1 *	<0.51	NA	NA	NA	<2.5	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-11	12.5 - 15	8/24/2010	<0.05 *	<0.005	NA	NA	NA	<0.025	<0.01	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-11	17.5 - 20	8/24/2010	<100 *	<10	NA	NA	NA	<52	<21	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-12	1 - 2	8/24/2010	<1.4 *	<0.14	NA	NA	NA	<0.72 *	<0.29	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-12	10 - 12.5	8/24/2010	<0.069 *F	<0.0069	NA	NA	NA	<0.034	<0.014	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-12	17.5 - 20	8/24/2010	<0.063 *	<0.0063	NA	NA	NA	<0.031	<0.013	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-13	1 - 2	8/24/2010	<0.05 *F	<0.005	NA	NA	NA	<0.025 F	<0.01	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-13	7.5 - 10	8/24/2010	<160 *	<16	NA	NA	NA	<80	<32	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-13	12.5 - 15	8/24/2010	<190 *	<19	NA	NA	NA	<94	<38	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-14	1 - 2	8/24/2010	<0.84 *	<0.084	NA	NA	NA	<0.42 *	<0.17	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-14	12.5 - 15	8/24/2010	<0.076 *	<0.0076	NA	NA	NA	<0.038	<0.015	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-14	17.5 - 20	8/24/2010	<0.067 *	<0.0067	NA	NA	NA	<0.034	<0.013	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-15	1 - 2	8/25/2010	<1.1 *	<0.11	NA	NA	NA	<0.54	<0.22	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-15	8 - 10	8/25/2010	<0.061 *	0.026	NA	NA	NA	<0.031	<0.012	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-15	17.5 - 20	8/25/2010	<0.062 *	<0.0062	NA	NA	NA	<0.031 *	<0.012	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-16	1 - 2	8/25/2010	<0.058 *	<0.0058	NA	NA	NA	<0.029	<0.012	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-16	8 - 10	8/25/2010	<0.058 *	<0.0058	NA	NA	NA	<0.029	<0.012	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-16	15 - 17.5	8/25/2010	<0.066 *	<0.0066	NA	NA	NA	<0.033	<0.013	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-17	7.5 - 10	8/25/2010	<1.8 *	<0.18	NA	NA	NA	<0.9 *	<0.36	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-17	12.5 - 15	8/25/2010	<1.7 *	<0.17	NA	NA	NA	<0.83 *	<0.33	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-18	7.5 - 10	8/25/2010	<1.6 *	<0.16	NA	NA	NA	<0.8	<0.32	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-18	17.5 - 20	8/25/2010	<4.3 *	<0.43	NA	NA	NA	<2.1	<0.85	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-19	1 - 2	8/25/2010	<1.6 *	<0.16	NA	NA	NA	<0.78	<0.31	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-19	7.5 - 10	8/25/2010	<1.6 *	<0.16	NA	NA	NA	<0.8	<0.32	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-19	12.5 - 15	8/25/2010	<1.8 *	<0.18	NA	NA	NA	<0.92	<0.37	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-19	22.5 - 25	8/25/2010	<280 *	<28	NA	NA	NA	<140	<57	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-20	17.5 - 20	8/25/2010	<1.5 *	<0.15	NA	NA	NA	<0.76	<0.3	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 4a
Historical and Recent Soil Analytical Summary - Organics
Former Lafarge Road Marking
East Point, Georgia

Location ID	Depth	Date	1,4-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,2-Dichloropropane	cis-1,3-Dichloropropene	trans-1,3-Dichloropropene	Ethylbenzene	Methylene Chloride	4-Methyl-2-pentanone	Tetrachloroethene	Toluene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Type 2 RRS					110		0.7	7			--		30	0.5	200	0.5	100
Type 4 RRS					134		3.7	7			--		38	2.3	200	0.89	100
SB-1	1 - 2	3/9/2010	NA	NA	NA	NA	NA	0.51	<0.0044	NA	NA	NA	0.0044	0.026	<0.0088	<0.0044	0.39
SB-1	15 - 17	3/9/2010	NA	NA	NA	NA	NA	<23	<23	NA	NA	NA	69	<23	<46	<23	94
SB-1	20 - 22	3/9/2010	NA	NA	NA	NA	NA	0.35	<0.0037	NA	NA	NA	5	<0.0037	<0.0074	0.053	7.4
SB-2	1 - 2	3/9/2010	NA	NA	NA	NA	NA	0.33	<0.0044	NA	NA	NA	0.29	0.079	<0.0088	0.0064	3
SB-2	13 - 15	3/9/2010	NA	NA	NA	NA	NA	<2.7	<2.7	NA	NA	NA	<2.7	<2.7	<5.4	<2.7	7.5
SB-2	20 - 22	3/9/2010	NA	NA	NA	NA	NA	<2.2	<2.2	NA	NA	NA	<2.2	<2.2	<4.3	<2.2	6.9
SB-3	1 - 2	3/9/2010	NA	NA	NA	NA	NA	2.4	0.016	NA	NA	NA	0.0091	0.0078	<0.0086	0.0079	0.92
SB-3	8 - 10	3/9/2010	NA	NA	NA	NA	NA	0.084	<0.0035	NA	NA	NA	0.0069	0.0062	<0.0069	<0.0035	0.74
SB-3	20 - 22	3/9/2010	NA	NA	NA	NA	NA	0.25	<0.0046	NA	NA	NA	0.077	0.07	<0.0091	<0.0046	2.8
SB-4	1 - 2	3/9/2010	NA	NA	NA	NA	NA	<2	<2	NA	NA	NA	<2	<2	<3.9	<2	22
SB-4	18 - 20	3/9/2010	NA	NA	NA	NA	NA	1.4	<0.0046	NA	NA	NA	0.27	0.09	0.018	0.0048	7.9
SB-4	20 - 22	3/9/2010	NA	NA	NA	NA	NA	<2.5	<2.5	NA	NA	NA	<2.5	<2.5	<5	<2.5	7.2
SB-5	1 - 2	3/9/2010	NA	NA	NA	NA	NA	<2.3	<2.3	NA	NA	NA	<2.3	<2.3	<4.5	<2.3	27
SB-5	10 - 12	3/9/2010	NA	NA	NA	NA	NA	<22	<22	NA	NA	NA	35	<22	<44	<22	1,200
SB-5	20 - 22	3/9/2010	NA	NA	NA	NA	NA	<21	<21	NA	NA	NA	<21	<21	<42	<21	530
SB-6	1 - 2	3/9/2010	NA	NA	NA	NA	NA	<0.0049	<0.0049	NA	NA	NA	<0.0049	<0.0049	<0.0098	<0.0049	0.022
SB-6	10 - 12	3/9/2010	NA	NA	NA	NA	NA	<42	<42	NA	NA	NA	<42	<42	<85	<42	580
SB-6	20 - 22	3/9/2010	NA	NA	NA	NA	NA	<20	<20	NA	NA	NA	<20	<20	<41	<20	1,600
SB-7	1 - 2	3/9/2010	NA	NA	NA	NA	NA	<0.43	<0.43	NA	NA	NA	1.4	<0.43	<0.87	<0.43	11
SB-7	8 - 10	3/9/2010	NA	NA	NA	NA	NA	<23	<23	NA	NA	NA	110	<23	<45	<23	280
SB-7	20 - 22	3/9/2010	NA	NA	NA	NA	NA	<22	<22	NA	NA	NA	45	<22	<43	<22	310
SB-8	1 - 2	3/9/2010	NA	NA	NA	NA	NA	<0.0039	<0.0039	NA	NA	NA	<0.0039	<0.0039	<0.0077	<0.0039	0.0042
SB-8	13 - 15	3/9/2010	NA	NA	NA	NA	NA	<2.2	<2.2	NA	NA	NA	14	<2.2	<4.4	<2.2	18
SB-8	20 - 22	3/9/2010	NA	NA	NA	NA	NA	<2	<2	NA	NA	NA	9.4	<2	<4.1	<2	14
SB-9	1 - 2	3/9/2010	NA	NA	NA	NA	NA	<20	<20	NA	NA	NA	31	<20	<40	<20	120
SB-9	5 - 7	3/9/2010	NA	NA	NA	NA	NA	<2.1	<2.1	NA	NA	NA	<2.1	<2.1	<4.2	<2.1	<2.1
SB-9	20 - 22	3/9/2010	NA	NA	NA	NA	NA	<20	<20	NA	NA	NA	110	<20	<41	<20	1,000
SB-10	1 - 2	8/24/2010	NA	NA	NA	NA	NA	<0.28	<0.28	NA	NA	NA	0.59	<0.28	<1.4	<0.28	6.4
SB-10	12.5 - 15	8/24/2010	NA	NA	NA	NA	NA	0.24 E	<0.0062	NA	NA	NA	0.12	<0.0062	<0.031	<0.0062	0.77 E
SB-10	17.5 - 20	8/24/2010	NA	NA	NA	NA	NA	<31	<31	NA	NA	NA	130	<31	<150	<31	1,100
SB-11	1 - 2	8/24/2010	NA	NA	NA	NA	NA	<0.51	<0.51	NA	NA	NA	<0.51	<0.51	<2.5	<0.51	6.7
SB-11	12.5 - 15	8/24/2010	NA	NA	NA	NA	NA	<0.005	<0.005	NA	NA	NA	<0.005	<0.005	<0.025	<0.005	0.015
SB-11	17.5 - 20	8/24/2010	NA	NA	NA	NA	NA	<10	<10	NA	NA	NA	<10	<10	<52	<10	150
SB-12	1 - 2	8/24/2010	NA	NA	NA	NA	NA	<0.14	<0.14	NA	NA	NA	<0.14	<0.14	<0.72	<0.14	<0.14
SB-12	10 - 12.5	8/24/2010	NA	NA	NA	NA	NA	<0.0069	<0.0069	NA	NA	NA	<0.0069	<0.0069	<0.034	<0.0069	<0.0069
SB-12	17.5 - 20	8/24/2010	NA	NA	NA	NA	NA	0.081	<0.0063	NA	NA	NA	<0.0063	<0.0063	<0.031	<0.0063	0.016
SB-13	1 - 2	8/24/2010	NA	NA	NA	NA	NA	<0.005	<0.005	NA	NA	NA	<0.005	<0.005	<0.025 F	<0.005	<0.005
SB-13	7.5 - 10	8/24/2010	NA	NA	NA	NA	NA	<16	<16	NA	NA	NA	60	<16	<80	<16	160
SB-13	12.5 - 15	8/24/2010	NA	NA	NA	NA	NA	<19	<19	NA	NA	NA	90	<19	<94	<19	390
SB-14	1 - 2	8/24/2010	NA	NA	NA	NA	NA	<0.084	<0.084	NA	NA	NA	<0.084	<0.084	<0.42	<0.084	<0.084
SB-14	12.5 - 15	8/24/2010	NA	NA	NA	NA	NA	0.012	<0.0076	NA	NA	NA	<0.0076	<0.0076	<0.038	<0.0076	<0.0076
SB-14	17.5 - 20	8/24/2010	NA	NA	NA	NA	NA	<0.0067	<0.0067	NA	NA	NA	<0.0067	<0.0067	<0.034	<0.0067	<0.0067
SB-15	1 - 2	8/25/2010	NA	NA	NA	NA	NA	<0.11	<0.11	NA	NA	NA	<0.11	<0.11	<0.54	<0.11	<0.11
SB-15	8 - 10	8/25/2010	NA	NA	NA	NA	NA	0.043	<0.0061	NA	NA	NA	0.078	<0.0061	<0.031	<0.0061	0.36 E
SB-15	17.5 - 20	8/25/2010	NA	NA	NA	NA	NA	0.018	<0.0062	NA	NA	NA	<0.0062	<0.0062	<0.031	<0.0062	0.013
SB-16	1 - 2	8/25/2010	NA	NA	NA	NA	NA	<0.0058	<0.0058	NA	NA	NA	<0.0058	<0.0058	<0.029	<0.0058	<0.0058
SB-16	8 - 10	8/25/2010	NA	NA	NA	NA	NA	0.022	<0.0058	NA	NA	NA	<0.0058	<0.0058	<0.029	<0.0058	<0.0058
SB-16	15 - 17.5	8/25/2010	NA	NA	NA	NA	NA	0.03	<0.0066	NA	NA	NA	<0.0066	<0.0066	<0.033	<0.0066	<0.0066
SB-17	7.5 - 10	8/25/2010	NA	NA	NA	NA	NA	0.46	<0.18	NA	NA	NA	<0.18	0.31	<0.9	<0.18	0.78
SB-17	12.5 - 15	8/25/2010	NA	NA	NA	NA	NA	0.43	<0.17	NA	NA	NA	<0.17	0.29	<0.83	<0.17	0.35
SB-18	7.5 - 10	8/25/2010	NA	NA	NA	NA	NA	2.2	<0.16	NA	NA	NA	0.29	0.65	<0.8	<0.16	1.4
SB-18	17.5 - 20	8/25/2010	NA	NA	NA	NA	NA	5	<0.43	NA	NA	NA	<0.43	<0.43	<2.1	<0.43	<0.43
SB-19	1 - 2	8/25/2010	NA	NA	NA	NA	NA	0.27	<0.16	NA	NA	NA	<0.16	0.2	<0.78	<0.16	0.86
SB-19	7.5 - 10	8/25/2010	NA	NA	NA	NA	NA	0.44	<0.16	NA	NA	NA	<0.16	0.47	<0.8	<0.16	0.85
SB-19	12.5 - 15	8/25/2010	NA	NA	NA	NA	NA	0.78	<0.18	NA	NA	NA	<0.18	0.6	<0.92	<0.18	1.2
SB-19	22.5 - 25	8/25/2010	NA	NA	NA	NA	NA	29	<28	NA	NA	NA	110	<28	<140	<28	990
SB-20	17.5 - 20	8/25/2010	NA	NA	NA	NA	NA	<0.15	<0.15	NA	NA	NA	<0.15	<0.15	<0.76	<0.15	<0.15

Table 4a
Historical and Recent Soil Analytical Summary - Organics
Former Lafarge Road Marking
East Point, Georgia

Location ID	Depth	Date	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene	Vinyl Chloride	m,p-Xylene	o-Xylene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Type 2 RRS			20	0.5	0.5	0.0002	--	20
Type 4 RRS			98	0.8	0.5	0.00025	--	20
SB-1	1 - 2	3/9/2010	NA	NA	1.3	NA	0.013	<0.0044
SB-1	15 - 17	3/9/2010	NA	NA	39	NA	260	70
SB-1	20 - 22	3/9/2010	NA	NA	2.7	NA	15	4.3
SB-2	1 - 2	3/9/2010	NA	NA	6.7	NA	0.96	0.26
SB-2	13 - 15	3/9/2010	NA	NA	7.7	NA	6.2	<2.7
SB-2	20 - 22	3/9/2010	NA	NA	4.6	NA	7	2.6
SB-3	1 - 2	3/9/2010	NA	NA	31	NA	0.023	<0.0043
SB-3	8 - 10	3/9/2010	NA	NA	1.1	NA	0.019	0.0037
SB-3	20 - 22	3/9/2010	NA	NA	2.4	NA	0.35	0.053
SB-4	1 - 2	3/9/2010	NA	NA	14	NA	5	<2
SB-4	18 - 20	3/9/2010	NA	NA	7.5	NA	0.77	0.24
SB-4	20 - 22	3/9/2010	NA	NA	3.4	NA	<5	<2.5
SB-5	1 - 2	3/9/2010	NA	NA	2.7	NA	<4.5	<2.3
SB-5	10 - 12	3/9/2010	NA	NA	<22	NA	95	<22
SB-5	20 - 22	3/9/2010	NA	NA	<21	NA	<42	<21
SB-6	1 - 2	3/9/2010	NA	NA	0.019	NA	<0.0098	<0.0049
SB-6	10 - 12	3/9/2010	NA	NA	<42	NA	<85	<42
SB-6	20 - 22	3/9/2010	NA	NA	<20	NA	<41	<20
SB-7	1 - 2	3/9/2010	NA	NA	4.8	NA	5.5	1.2
SB-7	8 - 10	3/9/2010	NA	NA	<23	NA	410	100
SB-7	20 - 22	3/9/2010	NA	NA	<22	NA	170	44
SB-8	1 - 2	3/9/2010	NA	NA	<0.0039	NA	<0.0077	<0.0039
SB-8	13 - 15	3/9/2010	NA	NA	<2.2	NA	70	12
SB-8	20 - 22	3/9/2010	NA	NA	<2	NA	41	8
SB-9	1 - 2	3/9/2010	NA	NA	4,800	NA	130	33
SB-9	5 - 7	3/9/2010	NA	NA	27	NA	<4.2	<2.1
SB-9	20 - 22	3/9/2010	NA	NA	260	NA	460	95
SB-10	1 - 2	8/24/2010	NA	NA	<0.28	NA	4.1	1.9
SB-10	12.5 - 15	8/24/2010	NA	NA	0.016	NA	0.31	0.071
SB-10	17.5 - 20	8/24/2010	NA	NA	<31	NA	510	120
SB-11	1 - 2	8/24/2010	NA	NA	<0.51	NA	1.6	0.6
SB-11	12.5 - 15	8/24/2010	NA	NA	<0.005	NA	<0.01	<0.005
SB-11	17.5 - 20	8/24/2010	NA	NA	<10	NA	24	<10
SB-12	1 - 2	8/24/2010	NA	NA	1.3	NA	<0.29	<0.14
SB-12	10 - 12.5	8/24/2010	NA	NA	<0.0069	NA	<0.014	<0.0069
SB-12	17.5 - 20	8/24/2010	NA	NA	<0.0063	NA	<0.013	<0.0063
SB-13	1 - 2	8/24/2010	NA	NA	<0.005	NA	<0.01	<0.005
SB-13	7.5 - 10	8/24/2010	NA	NA	<16	NA	260	62
SB-13	12.5 - 15	8/24/2010	NA	NA	33	NA	380	97
SB-14	1 - 2	8/24/2010	NA	NA	1	NA	<0.17	<0.084
SB-14	12.5 - 15	8/24/2010	NA	NA	<0.0076	NA	0.025	0.013
SB-14	17.5 - 20	8/24/2010	NA	NA	<0.0067	NA	<0.013	<0.0067
SB-15	1 - 2	8/25/2010	NA	NA	<0.11	NA	<0.22	<0.11
SB-15	8 - 10	8/25/2010	NA	NA	<0.0061	NA	0.19	0.011
SB-15	17.5 - 20	8/25/2010	NA	NA	<0.0062	NA	<0.012	<0.0062
SB-16	1 - 2	8/25/2010	NA	NA	<0.0058	NA	<0.012	<0.0058
SB-16	8 - 10	8/25/2010	NA	NA	0.056	NA	<0.012	<0.0058
SB-16	15 - 17.5	8/25/2010	NA	NA	0.038	NA	<0.013	<0.0066
SB-17	7.5 - 10	8/25/2010	NA	NA	0.38	NA	<0.36	<0.18
SB-17	12.5 - 15	8/25/2010	NA	NA	<0.17	NA	<0.33	<0.17
SB-18	7.5 - 10	8/25/2010	NA	NA	1.4	NA	0.7	0.31
SB-18	17.5 - 20	8/25/2010	NA	NA	<0.43	NA	<0.85	<0.43
SB-19	1 - 2	8/25/2010	NA	NA	0.72	NA	0.53	<0.16
SB-19	7.5 - 10	8/25/2010	NA	NA	<0.16	NA	0.53	<0.16
SB-19	12.5 - 15	8/25/2010	NA	NA	0.43	NA	0.6	<0.18
SB-19	22.5 - 25	8/25/2010	NA	NA	<28	NA	340	99
SB-20	17.5 - 20	8/25/2010	NA	NA	<0.15	NA	0.56	<0.15

Table 4a
Historical and Recent Soil Analytical Summary - Organics
Former Lafarge Road Marking
East Point, Georgia

Location ID	Depth	Date	Acetone	Benzene	Bromodichloromethane	Bromoform	Bromomethane	2-Butanone	Carbon Disulfide	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	Cyclohexane	1,2-Dibromoethane	1,2-Dichlorobenzene	1,3-Dichlorobenzene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Type 2 RRS			400	0.5	-	-	-	-	-	0.5	10		1		74			
Type 4 RRS			400	0.5	-	-	-	-	-	0.5	10		1.3		368			
SB-21	1 - 2	8/25/2010	0.15 *	<0.0052	NA	NA	NA	<0.026 *	<0.01	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-21	7.5 - 10	8/25/2010	<5.4 *	<0.54	NA	NA	NA	<2.7	<1.1	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-21	17.5 - 20	8/25/2010	<860 *	<86	NA	NA	NA	<430	<170	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-23	10 - 12.5	8/25/2010	<0.1 *	<0.01	NA	NA	NA	<0.051	<0.02	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-23	17.5 - 20	8/25/2010	<0.064 *	<0.0064	NA	NA	NA	<0.032 *	<0.013	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-24	1 - 2	8/25/2010	<1.4	<0.14	NA	NA	NA	<0.72	<0.29	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-24	7.5 - 10	8/25/2010	<1.7 *	<0.17	NA	NA	NA	<0.86	<0.34	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-24	17.5 - 20	8/25/2010	<300 *	<30	NA	NA	NA	<150	<59	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-25	1 - 2	8/25/2010	<0.076 *	0.01	NA	NA	NA	<0.038	<0.015	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-25	10 - 12.5	8/25/2010	<5.9 F	<0.59	NA	NA	NA	17 F	<1.2	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-25	15 - 17.5	8/25/2010	<330 *	<33	NA	NA	NA	<170	<66	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-26	1 - 2	8/25/2010	<0.054	<0.0054	NA	NA	NA	<0.027	<0.011	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-26	12.5 - 15	8/25/2010	<0.055 *	<0.0055	NA	NA	NA	<0.027	<0.011	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-26	17.5 - 20	8/25/2010	<16 *	<1.6	NA	NA	NA	<7.8	<3.1	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-27	1 - 2	8/25/2010	<25 *	<2.5	NA	NA	NA	<13	<5.1	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-27	7.5 - 10	8/25/2010	<0.06 *	<0.006	NA	NA	NA	<0.03	<0.012	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-27	17.5 - 20	8/25/2010	<0.056 *	<0.0056	NA	NA	NA	<0.028	<0.011	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-28	7.5 - 10	8/25/2010	<0.06 *	<0.006	NA	NA	NA	<0.03	<0.012	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-28	17.5 - 20	8/25/2010	<0.063 *	0.0074	NA	NA	NA	<0.031	<0.013	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-29	1 - 2	8/25/2010	0.065 *	<0.0059	NA	NA	NA	<0.03	<0.012	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-29	7.5 - 10	8/25/2010	<0.065 *	<0.0065	NA	NA	NA	<0.033	<0.013	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-29	17.5 - 20	8/25/2010	<64	<6.4	NA	NA	NA	<32	<13	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-30	1 - 2	8/25/2010	<9.9	17	NA	NA	NA	<4.9	<2	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-30	10 - 12.5	8/25/2010	<81	8.4	NA	NA	NA	<41	<16	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-30	15 - 17.5	8/25/2010	<160	16	NA	NA	NA	<80	<32	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-31	1 - 2	8/25/2010	<11	<1.1	NA	NA	NA	<5.7	<2.3	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-31	7.5 - 10	8/25/2010	<28	2.9	NA	NA	NA	<14	<5.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-31	12.5 - 15	8/25/2010	<1.5 *	0.35	NA	NA	NA	<0.75	<0.3	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-31	22.5 - 25	8/25/2010	<3	0.33	NA	NA	NA	<1.5	<0.59	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-32	1 - 2	8/25/2010	<6.3	0.96	NA	NA	NA	<3.1	<1.3	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-32	10 - 12.5	8/25/2010	<0.066	<0.0066	NA	NA	NA	<0.033	<0.013	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-32	20 - 22.5	8/25/2010	<19	<1.9	NA	NA	NA	<9.3	<3.7	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-33	1 - 2	8/26/2010	<2.1	<0.21	NA	NA	NA	<1	<0.42	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-33	7.5 - 10	8/26/2010	<2.6	<0.26	NA	NA	NA	<1.3	<0.52	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-33	12.5 - 15	8/26/2010	<290	<29	NA	NA	NA	<150	<58	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-34	1 - 2	8/26/2010	<0.051	<0.0051	NA	NA	NA	<0.025	<0.01	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-34	7.5 - 10	8/26/2010	<0.054	<0.0054	NA	NA	NA	<0.027	<0.011	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-34	17.5 - 20	8/26/2010	<3.9	<0.39	NA	NA	NA	<1.9	<0.78	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-35	7.5 - 10	8/26/2010	<2.8	<0.28	NA	NA	NA	<1.4	<0.56	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-35	12.5 - 15	8/26/2010	<12 *	<1.2	NA	NA	NA	<6.2 *	<2.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-36	1 - 2	8/26/2010	0.082	<0.0045	NA	NA	NA	<0.023	<0.009	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-36	7.5 - 10	8/26/2010	<0.05	<0.005	NA	NA	NA	<0.025	<0.01	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-36	12.5 - 15	8/26/2010	<1.7 *	<0.17	NA	NA	NA	<0.86 *	<0.34	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-37	1 - 2	8/26/2010	0.071	<0.0042	NA	NA	NA	<0.021	<0.0084	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-37	7.5 - 10	8/26/2010	<0.049	<0.0049	NA	NA	NA	<0.025	<0.0099	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-37	17.5 - 20	8/26/2010	<1.7 *	<0.17	NA	NA	NA	<0.87 *	<0.35	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-38	1 - 2	8/26/2010	0.055	0.021	NA	NA	NA	<0.021	<0.0085	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-38	12.5 - 15	8/26/2010	<1.9 *	<0.19	NA	NA	NA	<0.93 *	<0.37	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-38	20 - 22.5	8/26/2010	<68 *	<6.8	NA	NA	NA	<34 *	<14	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-39	1 - 2	8/26/2010	<5.4 *	<0.54	NA	NA	NA	<2.7 *	<1.1	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-39	10 - 12.5	8/26/2010	<1.1 *	0.23	NA	NA	NA	<0.55 *	<0.22	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-39	15 - 17.5	8/26/2010	<31 *	<3.1	NA	NA	NA	<16 *	<6.2	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-40	1 - 2	8/26/2010	<11 *	<1.1	NA	NA	NA	<5.7 *	<2.3	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-40	10 - 12.5	8/26/2010	<1.4 *	<0.14	NA	NA	NA	<0.68 *	<0.14	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-40	15 - 17.5	8/26/2010	<54 *	<5.4	NA	NA	NA	<27 *	<11	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 4a
Historical and Recent Soil Analytical Summary - Organics
Former Lafarge Road Marking
East Point, Georgia

Location ID	Depth	Date	1,4-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,2-Dichloropropane	cis-1,3-Dichloropropene	trans-1,3-Dichloropropene	Ethylbenzene	Methylene Chloride	4-Methyl-2-pentanone	Tetrachloroethene	Toluene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Type 2 RRS					110		0.7	7			--		30	0.5	200	0.5	100
Type 4 RRS					134		3.7	7			--		38	2.3	200	0.89	100
SB-21	1 - 2	8/25/2010	NA	NA	NA	NA	NA	<0.0052	<0.0052	NA	NA	NA	0.027	<0.0052	<0.026	<0.0052	0.0068
SB-21	7.5 - 10	8/25/2010	NA	NA	NA	NA	NA	3.9	<0.54	NA	NA	NA	<0.54	<0.54	<2.7	<0.54	7
SB-21	17.5 - 20	8/25/2010	NA	NA	NA	NA	NA	<86	<86	NA	NA	NA	180	<86	<430	<86	1,900
SB-23	10 - 12.5	8/25/2010	NA	NA	NA	NA	NA	<0.01	<0.01	NA	NA	NA	<0.01	<0.01	<0.051	<0.01	<0.01
SB-23	17.5 - 20	8/25/2010	NA	NA	NA	NA	NA	<0.0064	<0.0064	NA	NA	NA	<0.0064	<0.0064	<0.032	<0.0064	0.086
SB-24	1 - 2	8/25/2010	NA	NA	NA	NA	NA	0.38	<0.14	NA	NA	NA	<0.14	<0.14 *	<0.72	<0.14	<0.14
SB-24	7.5 - 10	8/25/2010	NA	NA	NA	NA	NA	0.83	<0.17	NA	NA	NA	<0.17	<0.17	<0.86	<0.17	0.22
SB-24	17.5 - 20	8/25/2010	NA	NA	NA	NA	NA	<30	<30	NA	NA	NA	130	<30	<150	<30	550
SB-25	1 - 2	8/25/2010	NA	NA	NA	NA	NA	0.076	<0.0076	NA	NA	NA	<0.0076	0.046	<0.038	<0.0076	0.2
SB-25	10 - 12.5	8/25/2010	NA	NA	NA	NA	NA	<0.59	<0.59	NA	NA	NA	<0.59	0.73 *	<3	<0.59	<0.59
SB-25	15 - 17.5	8/25/2010	NA	NA	NA	NA	NA	<33	<33	NA	NA	NA	<33	<33	<170	<33	410
SB-26	1 - 2	8/25/2010	NA	NA	NA	NA	NA	<0.0054	<0.0054	NA	NA	NA	<0.0054	<0.0054	<0.027	<0.0054	<0.0054
SB-26	12.5 - 15	8/25/2010	NA	NA	NA	NA	NA	0.013	<0.0055	NA	NA	NA	<0.0055	<0.0055	<0.027	<0.0055	0.019
SB-26	17.5 - 20	8/25/2010	NA	NA	NA	NA	NA	11	<1.6	NA	NA	NA	1.6	<1.6	<7.8	<1.6	22
SB-27	1 - 2	8/25/2010	NA	NA	NA	NA	NA	<2.5	<2.5	NA	NA	NA	5	<2.5	<13	<2.5	7
SB-27	7.5 - 10	8/25/2010	NA	NA	NA	NA	NA	<0.006	<0.006	NA	NA	NA	<0.006	<0.006	<0.03	<0.006	<0.006
SB-27	17.5 - 20	8/25/2010	NA	NA	NA	NA	NA	<0.0056	<0.0056	NA	NA	NA	<0.0056	<0.0056	<0.028	<0.0056	<0.0056
SB-28	7.5 - 10	8/25/2010	NA	NA	NA	NA	NA	<0.006	<0.006	NA	NA	NA	<0.006	<0.006	<0.03	<0.006	<0.006
SB-28	17.5 - 20	8/25/2010	NA	NA	NA	NA	NA	0.08	<0.0063	NA	NA	NA	<0.0063	<0.0063	<0.031	<0.0063	<0.0063
SB-29	1 - 2	8/25/2010	NA	NA	NA	NA	NA	0.0065	<0.0059	NA	NA	NA	<0.0059	<0.0059	<0.03	<0.0059	<0.0059
SB-29	7.5 - 10	8/25/2010	NA	NA	NA	NA	NA	0.17	<0.0065	NA	NA	NA	<0.0065	<0.0065	<0.033	<0.0065	0.0077
SB-29	17.5 - 20	8/25/2010	NA	NA	NA	NA	NA	8.2	<6.4	NA	NA	NA	31	<6.4 *	<32	<6.4	14
SB-30	1 - 2	8/25/2010	NA	NA	NA	NA	NA	<0.99	<0.99	NA	NA	NA	2.8	<0.99 *	<4.9	<0.99	<0.99
SB-30	10 - 12.5	8/25/2010	NA	NA	NA	NA	NA	<8.1	<8.1	NA	NA	NA	12	<8.1 *	<41	<8.1	58
SB-30	15 - 17.5	8/25/2010	NA	NA	NA	NA	NA	<16	<16	NA	NA	NA	130	<16 *	<80	<16	320
SB-31	1 - 2	8/25/2010	NA	NA	NA	NA	NA	<1.1	<1.1	NA	NA	NA	2.6	<1.1 *	<5.7	<1.1	<1.1
SB-31	7.5 - 10	8/25/2010	NA	NA	NA	NA	NA	<2.8	<2.8	NA	NA	NA	6	<2.8 *	<14	<2.8	<2.8
SB-31	12.5 - 15	8/25/2010	NA	NA	NA	NA	NA	<0.15	<0.15	NA	NA	NA	<0.15	<0.15	<0.75	<0.15	<0.15
SB-31	22.5 - 25	8/25/2010	NA	NA	NA	NA	NA	<0.3	<0.3	NA	NA	NA	2.1	<0.3 *	<1.5	<0.3	<0.3
SB-32	1 - 2	8/25/2010	NA	NA	NA	NA	NA	<0.63	<0.63	NA	NA	NA	1.2	<0.63 *	<3.1	<0.63	4.4
SB-32	10 - 12.5	8/25/2010	NA	NA	NA	NA	NA	<0.0066	<0.0066	NA	NA	NA	<0.0066	<0.0066	<0.033	<0.0066	<0.0066
SB-32	20 - 22.5	8/25/2010	NA	NA	NA	NA	NA	<1.9	<1.9	NA	NA	NA	6.7	<1.9 *	<9.3	<1.9	<1.9
SB-33	1 - 2	8/26/2010	NA	NA	NA	NA	NA	<0.21	<0.21	NA	NA	NA	<0.21	<0.21 *	<1	<0.21	0.54
SB-33	7.5 - 10	8/26/2010	NA	NA	NA	NA	NA	0.52	<0.26	NA	NA	NA	<0.26	13	<1.3	<0.26	3.3
SB-33	12.5 - 15	8/26/2010	NA	NA	NA	NA	NA	<29	<29	NA	NA	NA	44	63 *	<150	<29	390
SB-34	1 - 2	8/26/2010	NA	NA	NA	NA	NA	<0.0051	<0.0051	NA	NA	NA	<0.0051	<0.0051	<0.025	<0.0051	0.0089
SB-34	7.5 - 10	8/26/2010	NA	NA	NA	NA	NA	<0.0054	<0.0054	NA	NA	NA	<0.0054	<0.0054	<0.027	<0.0054	0.0077
SB-34	17.5 - 20	8/26/2010	NA	NA	NA	NA	NA	9.2	<0.39	NA	NA	NA	<0.39	<0.39 *	<1.9	<0.39	<0.39
SB-35	7.5 - 10	8/26/2010	NA	NA	NA	NA	NA	2.1	<0.28	NA	NA	NA	<0.28	1.8 *	<1.4	<0.28	4.4
SB-35	12.5 - 15	8/26/2010	NA	NA	NA	NA	NA	13	<1.2	NA	NA	NA	2.4	7.7 *	<6.2	<1.2	16
SB-36	1 - 2	8/26/2010	NA	NA	NA	NA	NA	<0.0045	<0.0045	NA	NA	NA	<0.0045	<0.0045	<0.023	<0.0045	<0.0045
SB-36	7.5 - 10	8/26/2010	NA	NA	NA	NA	NA	<0.005	<0.005	NA	NA	NA	<0.005	<0.005	<0.025	<0.005	<0.005
SB-36	12.5 - 15	8/26/2010	NA	NA	NA	NA	NA	2.7	<0.17	NA	NA	NA	0.5	<0.17 *	<0.86	<0.17	<0.17
SB-37	1 - 2	8/26/2010	NA	NA	NA	NA	NA	<0.0042	<0.0042	NA	NA	NA	<0.0042	<0.0042	<0.021	<0.0042	<0.0042
SB-37	7.5 - 10	8/26/2010	NA	NA	NA	NA	NA	<0.0049	<0.0049	NA	NA	NA	<0.0049	<0.0049	<0.025	<0.0049	<0.0049
SB-37	17.5 - 20	8/26/2010	NA	NA	NA	NA	NA	3.7	<0.17	NA	NA	NA	<0.17	0.64 *	<0.87	<0.17	0.39
SB-38	1 - 2	8/26/2010	NA	NA	NA	NA	NA	<0.0042	<0.0042	NA	NA	NA	0.016	<0.0042	<0.021	<0.0042	<0.0042
SB-38	12.5 - 15	8/26/2010	NA	NA	NA	NA	NA	<0.19	<0.19	NA	NA	NA	0.38	<0.19 *	<0.93	<0.19	1.9
SB-38	20 - 22.5	8/26/2010	NA	NA	NA	NA	NA	<6.8	<6.8	NA	NA	NA	17	<6.8 *	<34	<6.8	73
SB-39	1 - 2	8/26/2010	NA	NA	NA	NA	NA	<0.54	<0.54	NA	NA	NA	<0.54	<0.54 *	<2.7	<0.54	3.8
SB-39	10 - 12.5	8/26/2010	NA	NA	NA	NA	NA	<0.11	<0.11	NA	NA	NA	0.71	<0.11 *	<0.55	<0.11	0.14
SB-39	15 - 17.5	8/26/2010	NA	NA	NA	NA	NA	<3.1	<3.1	NA	NA	NA	18	<3.1 *	<16	<3.1	60
SB-40	1 - 2	8/26/2010	NA	NA	NA	NA	NA	<1.1	<1.1	NA	NA	NA	<1.1	<1.1 *	<5.7	<1.1	8.1
SB-40	10 - 12.5	8/26/2010	NA	NA	NA	NA	NA	<0.14	<0.14	NA	NA	NA	0.65	<0.14 *	<0.68	<0.14	0.16
SB-40	15 - 17.5	8/26/2010	NA	NA	NA	NA	NA	<5.4	<5.4	NA	NA	NA	13	<5.4 *	<27	<5.4	92

Table 4a
Historical and Recent Soil Analytical Summary - Organics
Former Lafarge Road Marking
East Point, Georgia

Location ID	Depth	Date	1,1,1- Trichloroethane	1,1,2- Trichloroethane	Trichloroethene	Vinyl Chloride	m,p-Xylene	o-Xylene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Type 2 RRS			20	0.5	0.5	0.0002	--	20
Type 4 RRS			98	0.8	0.5	0.00025	--	20
SB-21	1 - 2	8/25/2010	NA	NA	<0.0052	NA	<0.01	<0.0052
SB-21	7.5 - 10	8/25/2010	NA	NA	0.85	NA	<1.1	<0.54
SB-21	17.5 - 20	8/25/2010	NA	NA	200	NA	690	160
SB-23	10 - 12.5	8/25/2010	NA	NA	<0.01	NA	<0.02	<0.01
SB-23	17.5 - 20	8/25/2010	NA	NA	<0.0064	NA	<0.013	<0.0064
SB-24	1 - 2	8/25/2010	NA	NA	<0.14	NA	<0.29	<0.14
SB-24	7.5 - 10	8/25/2010	NA	NA	<0.17	NA	<0.34	<0.17
SB-24	17.5 - 20	8/25/2010	NA	NA	220	NA	530	130
SB-25	1 - 2	8/25/2010	NA	NA	0.082	NA	0.032	0.01
SB-25	10 - 12.5	8/25/2010	NA	NA	<0.59	NA	<1.2	<0.59
SB-25	15 - 17.5	8/25/2010	NA	NA	81	NA	130	<33
SB-26	1 - 2	8/25/2010	NA	NA	<0.0054	NA	<0.011	<0.0054
SB-26	12.5 - 15	8/25/2010	NA	NA	0.011	NA	0.012	<0.0055
SB-26	17.5 - 20	8/25/2010	NA	NA	2.7	NA	5.8	1.6
SB-27	1 - 2	8/25/2010	NA	NA	<2.5	NA	68	4.2
SB-27	7.5 - 10	8/25/2010	NA	NA	<0.006	NA	<0.012	<0.006
SB-27	17.5 - 20	8/25/2010	NA	NA	<0.0056	NA	<0.011	<0.0056
SB-28	7.5 - 10	8/25/2010	NA	NA	<0.006	NA	<0.012	<0.006
SB-28	17.5 - 20	8/25/2010	NA	NA	<0.0063	NA	<0.013	<0.0063
SB-29	1 - 2	8/25/2010	NA	NA	<0.0059	NA	<0.012	<0.0059
SB-29	7.5 - 10	8/25/2010	NA	NA	0.024	NA	<0.013	<0.0065
SB-29	17.5 - 20	8/25/2010	NA	NA	9.3	NA	89	18
SB-30	1 - 2	8/25/2010	NA	NA	<0.99	NA	<2	<0.99
SB-30	10 - 12.5	8/25/2010	NA	NA	<8.1	NA	37	<8.1
SB-30	15 - 17.5	8/25/2010	NA	NA	<16	NA	470	84
SB-31	1 - 2	8/25/2010	NA	NA	<1.1	NA	2.3	<1.1
SB-31	7.5 - 10	8/25/2010	NA	NA	<2.8	NA	30	5.7
SB-31	12.5 - 15	8/25/2010	NA	NA	<0.15	NA	0.46	<0.15
SB-31	22.5 - 25	8/25/2010	NA	NA	<0.3	NA	3.2	<0.3
SB-32	1 - 2	8/25/2010	NA	NA	<0.63	NA	8.5	4.3
SB-32	10 - 12.5	8/25/2010	NA	NA	<0.0066	NA	<0.013	<0.0066
SB-32	20 - 22.5	8/25/2010	NA	NA	<1.9	NA	23	<1.9
SB-33	1 - 2	8/26/2010	NA	NA	2	NA	<0.42	<0.21
SB-33	7.5 - 10	8/26/2010	NA	NA	5.3	NA	<0.52	<0.26
SB-33	12.5 - 15	8/26/2010	NA	NA	250	NA	170	41
SB-34	1 - 2	8/26/2010	NA	NA	0.0092	NA	<0.01	<0.0051
SB-34	7.5 - 10	8/26/2010	NA	NA	0.0087	NA	<0.011	<0.0054
SB-34	17.5 - 20	8/26/2010	NA	NA	<0.39	NA	<0.78	<0.39
SB-35	7.5 - 10	8/26/2010	NA	NA	1.9	NA	0.88	<0.28
SB-35	12.5 - 15	8/26/2010	NA	NA	5.8	NA	6.2	2.6
SB-36	1 - 2	8/26/2010	NA	NA	<0.0045	NA	<0.009	<0.0045
SB-36	7.5 - 10	8/26/2010	NA	NA	<0.005	NA	<0.01	<0.005
SB-36	12.5 - 15	8/26/2010	NA	NA	<0.17	NA	0.93	<0.17
SB-37	1 - 2	8/26/2010	NA	NA	<0.0042	NA	<0.0084	<0.0042
SB-37	7.5 - 10	8/26/2010	NA	NA	<0.0049	NA	<0.0099	<0.0049
SB-37	17.5 - 20	8/26/2010	NA	NA	0.81	NA	0.6	<0.17
SB-38	1 - 2	8/26/2010	NA	NA	<0.0042	NA	<0.0085	<0.0042
SB-38	12.5 - 15	8/26/2010	NA	NA	<0.19	NA	0.96	0.4
SB-38	20 - 22.5	8/26/2010	NA	NA	<6.8	NA	46	16
SB-39	1 - 2	8/26/2010	NA	NA	8.1	NA	1.9	<0.54
SB-39	10 - 12.5	8/26/2010	NA	NA	<0.11	NA	1.3	0.39
SB-39	15 - 17.5	8/26/2010	NA	NA	<3.1	NA	70	19
SB-40	1 - 2	8/26/2010	NA	NA	<1.1	NA	6.6	3.1
SB-40	10 - 12.5	8/26/2010	NA	NA	<0.14	NA	0.5	<0.14
SB-40	15 - 17.5	8/26/2010	NA	NA	<5.4	NA	37	13

Table 4a
Historical and Recent Soil Analytical Summary - Organics
Former Lafarge Road Marking
East Point, Georgia

Location ID	Depth	Date	Acetone	Benzene	Bromodichloromethane	Bromoform	Bromomethane	2-Butanone	Carbon Disulfide	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	Cyclohexane	1,2-Dibromoethane	1,2-Dichlorobenzene	1,3-Dichlorobenzene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Type 2 RRS			400	0.5	-	-	-	-	-	0.5	10		1		74			
Type 4 RRS			400	0.5	-	-	-	-	-	0.5	10		1.3		368			
SB-41	1 - 2	8/27/2010	<12 *	2.4	NA	NA	NA	<5.8	<2.3	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-41	10 - 12.5	8/27/2010	<170 *	<17	NA	NA	NA	<85	<34	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-41	17.5 - 20	8/27/2010	<3.6 *	<0.36	NA	NA	NA	<1.8	<0.73	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-42	1 - 2	8/27/2010	0.09 *	<0.0047	NA	NA	NA	<0.023	<0.0093	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-42	12.5 - 15	8/27/2010	<0.05 *	<0.005	NA	NA	NA	<0.025	<0.0099	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-42	20 - 22.5	8/27/2010	<3.5 *	<0.35	NA	NA	NA	<1.7	<0.69	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-43	5 - 7.5	8/27/2010	<63 *	<6.3	NA	NA	NA	<31	<13	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-43	20 - 22.5	8/27/2010	<78 *	<7.8	NA	NA	NA	<39	<16	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-46	0 - 2	7/13/2012	<0.053	<0.0053	NA	NA	NA	<0.027	<0.0053	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-46	8 - 10	7/13/2012	<46	<4.6	NA	NA	NA	<23	<4.6	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-46	18 - 20	7/13/2012	<59	<5.9	NA	NA	NA	<29	<5.9	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-47	0 - 2	7/13/2012	<0.065	<0.0065	NA	NA	NA	<0.033	<0.0065	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-47	8 - 10	7/13/2012	<37	<3.7	NA	NA	NA	<19	<3.7	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-47	16 - 18	7/13/2012	<140	19	NA	NA	NA	<72	<14	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-48	0 - 2	7/13/2012	<0.049	<0.0049	NA	NA	NA	<0.025	<0.0049	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-48	14 - 16	7/13/2012	<140	<14	NA	NA	NA	<72	<14	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-49	16 - 18	7/13/2012	<0.06	0.025	NA	NA	NA	<0.03	<0.006	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-50	18 - 20	7/14/2012	<0.065	<0.0065	NA	NA	NA	<0.032	<0.0065	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-51	1 - 2	7/14/2012	<0.047	<0.0047	NA	NA	NA	<0.023	<0.0047	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-52	18 - 20	7/14/2012	<3,200	<320	NA	NA	NA	<1,600	<320	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-52	26 - 28	7/14/2012	<3.3	<0.33	NA	NA	NA	<1.6	<0.33	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-53	16 - 18	7/14/2012	<6.2	<0.62	NA	NA	NA	<3.1	<0.62	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-53	20 - 22	7/14/2012	<130	<13	NA	NA	NA	<64	<13	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-54	16 - 18	7/13/2012	<2.7	<0.27	NA	NA	NA	<1.3	<0.27	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-54	20 - 22	7/13/2012	<3.1	<0.31	NA	NA	NA	<1.6	<0.31	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-56	10 - 12	7/15/2012	<3.2	<0.32	NA	NA	NA	1.7	<0.32	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-56	16 - 18	7/15/2012	<3,200	<320	NA	NA	NA	<1,600	<320	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-57	0 - 2	7/14/2012	0.052	<0.0046	NA	NA	NA	<0.023	<0.0046	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-57	12 - 14	7/14/2012	<2.7	<0.27	NA	NA	NA	<1.4	<0.27	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-57	18 - 20	7/14/2012	<130	<13	NA	NA	NA	<63	<13	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-58	18 - 20	7/14/2012	<0.6	<0.6	NA	NA	NA	<3	<0.6	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-59	10 - 12	7/14/2012	<0.053	<0.0053	NA	NA	NA	<0.026	<0.0053	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-59	18 - 20	7/14/2012	<0.058	0.04	NA	NA	NA	<0.029	<0.0058	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-60	18 - 20	7/13/2012	<6	<0.6	NA	NA	NA	<3	<0.6	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-61	18 - 20	7/15/2012	<2.8	<0.28	NA	NA	NA	<1.4	<0.28	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-62	18 - 20	7/15/2012	<0.077	<0.0077	NA	NA	NA	<0.038	<0.0077	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-63	1 - 2	7/15/2012	<0.051	<0.0051	NA	NA	NA	<0.025	<0.0051	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-63	8 - 10	7/15/2012	<58	<5.8	NA	NA	NA	<29	<5.8	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-63	14 - 16	7/15/2012	<5.5	<0.55	NA	NA	NA	<2.7	<0.55	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-64	12 - 14	7/15/2012	0.055	0.0081	NA	NA	NA	<0.027	<0.0055	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-64	18 - 20	7/15/2012	<4	4.1	NA	NA	NA	<2	<4	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-142	0 - 1	1/14/2015	<0.15	<0.0075	<0.0075	<0.0075	<0.0075	<0.075	<0.015	<0.0075	<0.0075	<0.015	<0.0075	<0.015	0.15	<0.0075	<0.0075	<0.0075
SB-142	1 - 3	1/14/2015	<0.13 J	<0.0065 J	R	R	<0.0065 J	<0.065 J	<0.013 J	<0.0065 J	R	<0.013 J	<0.0065 J	<0.013 J	<0.0065 J	<0.0065 J	<0.0065 J	<0.0065 J
SB-142	26 - 28	1/14/2015	<0.091	<0.0045	<0.0045	<0.0045	<0.0045	<0.045	<0.0091	<0.0045	<0.0045	<0.0091	<0.0045	<0.0091	<0.0045	<0.0045	<0.0045	<0.0045
SB-143	6 - 8	1/14/2015	<0.11	<0.0057	<0.0057	<0.0057	<0.0057	<0.057	<0.011	<0.0057	<0.0057	<0.011	<0.0057	<0.011	<0.0057	<0.0057	<0.0057	<0.0057
SB-143	18 - 20	1/14/2015	<0.28	<0.014	<0.014	<0.014	<0.014	<0.14	<0.028	<0.014	<0.014	<0.028	<0.014	<0.028	<0.014	<0.014	<0.014	<0.014
SB-143	22 - 24	1/14/2015	<0.082	<0.0041	<0.0041	<0.0041	<0.0041	<0.041	<0.0082	<0.0041	<0.0041	<0.0082	<0.0041	<0.0082	<0.0041	<0.0041	<0.0041	<0.0041
SB-144	0 - 1	1/14/2015	<0.13	<0.0066	<0.0066	<0.0066	<0.0066	<0.066	<0.013	<0.0066	<0.0066	<0.013	<0.0066	<0.013	<0.0066	<0.0066	<0.0066	<0.0066
SB-144	24 - 25	1/14/2015	<0.082	<0.0041	<0.0041	<0.0041	<0.0041	<0.041	<0.0082	<0.0041	<0.0041	<0.0082	<0.0041	<0.0082	<0.0041	<0.0041	<0.0041	<0.0041
SB-145	0 - 1	1/14/2015	<0.13	<0.0066	<0.0066	<0.0066	<0.0066	<0.066	<0.013	<0.0066	<0.0066	<0.013	<0.0066	<0.013	<0.0066	<0.0066	<0.0066	<0.0066
SB-145	1 - 3	1/14/2015	<0.15	<0.0077	<0.0077	<0.0077	<0.0077	<0.077	<0.015	<0.0077	<0.0077	<0.015	<0.0077	<0.015	<0.0077	<0.0077	<0.0077	<0.0077
SB-145	17 - 19.5	1/14/2015	<0.11	<0.0057	<0.0057	<0.0057	<0.0057	<0.057	<0.011	<0.0057	<0.0057	<0.011	<0.0057	<0.011	<0.0057	<0.0057	<0.0057	<0.0057
SB-146	0 - 1	1/14/2015	<0.14	<0.0069 J	<0.0069 J	<0.0069 J	<0.0069 J	<0.069	0.017	<0.0069 J	<0.0069 J	<0.014	<0.0069	<0.014	0.062	<0.0069	<0.0069	<0.0069
SB-146	18 - 19	1/14/2015	<0.09	<0.0045	<0.0045	<0.0045	<0.0045	<0.045	<0.009	<0.0045	<0.0045	<0.009	<0.0045	<0.009	<0.0045	<0.0045	<0.0045	<0.0045
SB-147	0 - 1	1/14/2015	<0.11	<0.0055	<0.0055	<0.0055	<0.0055	<0.055	<0.011	<0.0055	<0.0055	<0.011	<0.0055	<0.011	0.0077	<0.0055	<0.0055	<0.0055
SB-147	22 - 24	1/14/2015	<0.18	<0.0088	<0.0088	<0.0088	<0.0088	<0.088	<0.018	<0.0088	<0.0088	<0.018	<0.0088	<0.018	<0.0088	<0.0088	<0.0088	<0.0088

Table 4a
Historical and Recent Soil Analytical Summary - Organics
Former Lafarge Road Marking
East Point, Georgia

Location ID	Depth	Date	1,4-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,2-Dichloropropane	cis-1,3-Dichloropropene	trans-1,3-Dichloropropene	Ethylbenzene	Methylene Chloride	4-Methyl-2-pentanone	Tetrachloroethene	Toluene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Type 2 RRS					110		0.7	7			--		30	0.5	200	0.5	100
Type 4 RRS					134		3.7	7			--		38	2.3	200	0.89	100
SB-41	1 - 2	8/27/2010	NA	NA	NA	NA	NA	<1.2	<1.2	NA	NA	NA	25	<1.2	<5.8	<1.2	27
SB-41	10 - 12.5	8/27/2010	NA	NA	NA	NA	NA	<17	<17	NA	NA	NA	88	<17	<85	<17	290
SB-41	17.5 - 20	8/27/2010	NA	NA	NA	NA	NA	<0.36	<0.36	NA	NA	NA	<0.36	<0.36	<1.8	<0.36	4.3
SB-42	1 - 2	8/27/2010	NA	NA	NA	NA	NA	<0.0047	<0.0047	NA	NA	NA	<0.0047	<0.0047	<0.023	<0.0047	0.013
SB-42	12.5 - 15	8/27/2010	NA	NA	NA	NA	NA	<0.005	<0.005	NA	NA	NA	<0.005	<0.005	<0.025	<0.005	0.0068
SB-42	20 - 22.5	8/27/2010	NA	NA	NA	NA	NA	<0.35	<0.35	NA	NA	NA	0.8	<0.35	<1.7	<0.35	<0.35
SB-43	5 - 7.5	8/27/2010	NA	NA	NA	NA	NA	<6.3	<6.3	NA	NA	NA	41	<6.3	<31	<6.3	<6.3
SB-43	20 - 22.5	8/27/2010	NA	NA	NA	NA	NA	<7.8	<7.8	NA	NA	NA	80	<7.8	<39	<7.8	180
SB-46	0 - 2	7/13/2012	NA	NA	NA	NA	NA	<0.0053	<0.0053	NA	NA	NA	<0.0053	<0.0053	<0.027	<0.0053	<0.0053
SB-46	8 - 10	7/13/2012	NA	NA	NA	NA	NA	<4.6	<4.6	NA	NA	NA	<4.6	<4.6	<23	<4.6	<4.6
SB-46	18 - 20	7/13/2012	NA	NA	NA	NA	NA	<5.9	<5.9	NA	NA	NA	<5.9	<5.9	<29	<5.9	16
SB-47	0 - 2	7/13/2012	NA	NA	NA	NA	NA	<0.0065	<0.0065	NA	NA	NA	<0.0065	<0.0065	<0.033	<0.0065	<0.0065
SB-47	8 - 10	7/13/2012	NA	NA	NA	NA	NA	<3.7	<3.7	NA	NA	NA	20	<3.7	<19	<3.7	230
SB-47	16 - 18	7/13/2012	NA	NA	NA	NA	NA	<14	<14	NA	NA	NA	14	<14	<72	<14	690
SB-48	0 - 2	7/13/2012	NA	NA	NA	NA	NA	<0.0049	<0.0049	NA	NA	NA	<0.0049	<0.0049	<0.025	<0.0049	<0.0049
SB-48	14 - 16	7/13/2012	NA	NA	NA	NA	NA	<14	<14	NA	NA	NA	16	<14	<72	<14	290
SB-49	16 - 18	7/13/2012	NA	NA	NA	NA	NA	0.1	<0.006	NA	NA	NA	0.072	<0.006	<0.03	<0.006	<0.006
SB-50	18 - 20	7/14/2012	NA	NA	NA	NA	NA	0.2 E	<0.0065	NA	NA	NA	<0.0065	0.014	<0.032	<0.0065	<0.0065
SB-51	1 - 2	7/14/2012	NA	NA	NA	NA	NA	<0.0047	<0.0047	NA	NA	NA	<0.0047	<0.0047	<0.023	<0.0047	<0.0047
SB-52	18 - 20	7/14/2012	NA	NA	NA	NA	NA	<320	<320	NA	NA	NA	<320	<320	<1,600	<320	760
SB-52	26 - 28	7/14/2012	NA	NA	NA	NA	NA	<0.33	<0.33	NA	NA	NA	<0.33	<0.33	<1.6	<0.33	0.97
SB-53	16 - 18	7/14/2012	NA	NA	NA	NA	NA	1.1	<0.62	NA	NA	NA	13 E	<0.62	<3.1	<0.62	1.8
SB-53	20 - 22	7/14/2012	NA	NA	NA	NA	NA	<13	<13	NA	NA	NA	50	<13	<64	<13	57
SB-54	16 - 18	7/13/2012	NA	NA	NA	NA	NA	1.3	<0.27	NA	NA	NA	<0.27	<0.27	<1.3	<0.27	<0.27
SB-54	20 - 22	7/13/2012	NA	NA	NA	NA	NA	0.31	<0.31	NA	NA	NA	<0.31	<0.31	<1.6	<0.31	0.81
SB-56	10 - 12	7/15/2012	NA	NA	NA	NA	NA	2.8	<0.32	NA	NA	NA	0.38	1.5	1.7	<0.32	6.1
SB-56	16 - 18	7/15/2012	NA	NA	NA	NA	NA	<320	<320	NA	NA	NA	<320	<320	<1,600	<320	1,200
SB-57	0 - 2	7/14/2012	NA	NA	NA	NA	NA	<0.0046	<0.0046	NA	NA	NA	<0.0046	<0.0046	<0.023	<0.0046	<0.0046
SB-57	12 - 14	7/14/2012	NA	NA	NA	NA	NA	1.1	<0.27	NA	NA	NA	5.3	<0.27	<1.4	<0.27	48
SB-57	18 - 20	7/14/2012	NA	NA	NA	NA	NA	21	<13	NA	NA	NA	210	<13	<63	<13	1,400
SB-58	18 - 20	7/14/2012	NA	NA	NA	NA	NA	3.3	<0.6	NA	NA	NA	<0.6	<0.6	<3	<0.6	<0.6
SB-59	10 - 12	7/14/2012	NA	NA	NA	NA	NA	<0.0053	<0.0053	NA	NA	NA	<0.0053	<0.0053	<0.026	<0.0053	<0.0053
SB-59	18 - 20	7/14/2012	NA	NA	NA	NA	NA	<0.0058	<0.0058	NA	NA	NA	0.018	0.16 E	<0.029	<0.0058	0.051
SB-60	18 - 20	7/13/2012	NA	NA	NA	NA	NA	<0.6	<0.6	NA	NA	NA	<0.6	<0.6	<3	<0.6	<0.6
SB-61	18 - 20	7/15/2012	NA	NA	NA	NA	NA	<0.28	<0.28	NA	NA	NA	0.61	<0.28	<1.4	<0.28	<0.28
SB-62	18 - 20	7/15/2012	NA	NA	NA	NA	NA	0.027	<0.0077	NA	NA	NA	0.01	<0.0077	<0.038	<0.0077	0.11
SB-63	1 - 2	7/15/2012	NA	NA	NA	NA	NA	<0.0051	<0.0051	NA	NA	NA	<0.0051	<0.0051	<0.025	<0.0051	<0.0051
SB-63	8 - 10	7/15/2012	NA	NA	NA	NA	NA	<5.8	<5.8	NA	NA	NA	<5.8	<5.8	<29	<5.8	29
SB-63	14 - 16	7/15/2012	NA	NA	NA	NA	NA	<0.55	<0.55	NA	NA	NA	<0.55	<0.55	<2.7	<0.55	<0.55
SB-64	12 - 14	7/15/2012	NA	NA	NA	NA	NA	<0.0055	<0.0055	NA	NA	NA	0.09	<0.0055	<0.027	<0.0055	0.037
SB-64	18 - 20	7/15/2012	NA	NA	NA	NA	NA	0.43	<0.4	NA	NA	NA	7.6	<0.4	<2	<0.4	2.4
SB-142	0 - 1	1/14/2015	<0.0075	<0.015	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	<0.03	<0.015	<0.0075	<0.0075
SB-142	1 - 3	1/14/2015	<0.0065 J	<0.013 J	<0.0065 J	<0.0065 J	<0.0065 J	<0.0065 J	<0.0065 J	<0.0065 J	<0.0065 J	<0.0065 J	R	<0.026 J	<0.013 J	R	<0.0065 J
SB-142	26 - 28	1/14/2015	<0.0045	<0.0091	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.018	<0.0091	<0.0045	<0.0045
SB-143	6 - 8	1/14/2015	<0.0057	<0.011	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.023	<0.011	<0.0057	<0.0057
SB-143	18 - 20	1/14/2015	<0.014	<0.028	<0.014	<0.014	<0.014	<0.014	<0.014	<0.014	<0.014	<0.014	<0.014	<0.056	<0.028	<0.014	<0.014
SB-143	22 - 24	1/14/2015	<0.0041	<0.0082	<0.0041	<0.0041	<0.0041	<0.0041	<0.0041	<0.0041	<0.0041	<0.0041	<0.0041	<0.016	<0.0082	<0.0041	<0.0041
SB-144	0 - 1	1/14/2015	<0.0066	<0.013	<0.0066	<0.0066	<0.0066	<0.0066	<0.0066	<0.0066	<0.0066	<0.0066	<0.0066	<0.026	<0.013	<0.0066	<0.0066
SB-144	24 - 25	1/14/2015	<0.0041	<0.0082	<0.0041	<0.0041	<0.0041	<0.0041	<0.0041	<0.0041	<0.0041	<0.0041	<0.0041	<0.016	<0.0082	<0.0041	<0.0041
SB-145	0 - 1	1/14/2015	<0.0066	<0.013	<0.0066	<0.0066	<0.0066	<0.0066	<0.0066	<0.0066	<0.0066	<0.0066	<0.0066	<0.026	<0.013	<0.0066	<0.0066
SB-145	1 - 3	1/14/2015	<0.0077	<0.015	<0.0077	<0.0077	<0.0077	<0.0077	<0.0077	<0.0077	<0.0077	<0.0077	<0.0077	<0.031	<0.015	<0.0077	<0.0077
SB-145	17 - 19.5	1/14/2015	<0.0057	<0.011	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.023	<0.011	<0.0057	<0.0057
SB-146	0 - 1	1/14/2015	<0.0069	<0.014	<0.0069	<0.0069	<0.0069	<0.0069	<0.0069	<0.0069	<0.0069 J	<0.0069 J	<0.0069 J	<0.028	<0.014 J	<0.0069 J	<0.0069 J
SB-146	18 - 19	1/14/2015	<0.0045	<0.009	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.018	<0.009	<0.0045	<0.0045
SB-147	0 - 1	1/14/2015	<0.0055	<0.011	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.022	<0.011	<0.0055	<0.0055
SB-147	22 - 24	1/14/2015	<0.0088	<0.018	<0.0088	<0.0088	<0.0088	<0.0088	<0.0088	<0.0088	<0.0088	<0.0088	<0.0088	<0.035	<0.018	<0.0088	<0.0088

Table 4a
Historical and Recent Soil Analytical Summary - Organics
Former Lafarge Road Marking
East Point, Georgia

Location ID	Depth	Date	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene	Vinyl Chloride	m,p-Xylene	o-Xylene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Type 2 RRS			20	0.5	0.5	0.0002	--	20
Type 4 RRS			98	0.8	0.5	0.00025	--	20
SB-41	1 - 2	8/27/2010	NA	NA	<1.2	NA	2.8	<1.2
SB-41	10 - 12.5	8/27/2010	NA	NA	<17	NA	37	<17
SB-41	17.5 - 20	8/27/2010	NA	NA	<0.36	NA	<0.73	<0.36
SB-42	1 - 2	8/27/2010	NA	NA	<0.0047	NA	<0.0093	<0.0047
SB-42	12.5 - 15	8/27/2010	NA	NA	<0.005	NA	0.016	<0.005
SB-42	20 - 22.5	8/27/2010	NA	NA	<0.35	NA	3	<0.35
SB-43	5 - 7.5	8/27/2010	NA	NA	<6.3	NA	120	13
SB-43	20 - 22.5	8/27/2010	NA	NA	<7.8	NA	350	64
SB-46	0 - 2	7/13/2012	NA	NA	<0.0053	NA	<0.011	<0.0053
SB-46	8 - 10	7/13/2012	NA	NA	<4.6	NA	<9.2	<4.6
SB-46	18 - 20	7/13/2012	NA	NA	<5.9	NA	14	<5.9
SB-47	0 - 2	7/13/2012	NA	NA	<0.0065	NA	<0.013	<0.0065
SB-47	8 - 10	7/13/2012	NA	NA	<3.7	NA	65	14
SB-47	16 - 18	7/13/2012	NA	NA	<14	NA	48	<14
SB-48	0 - 2	7/13/2012	NA	NA	<0.0049	NA	<0.0098	<0.0049
SB-48	14 - 16	7/13/2012	NA	NA	<14	NA	54	<14
SB-49	16 - 18	7/13/2012	NA	NA	<0.006	NA	0.17	0.042
SB-50	18 - 20	7/14/2012	NA	NA	0.029	NA	<0.013	<0.0065
SB-51	1 - 2	7/14/2012	NA	NA	<0.0047	NA	<0.0093	<0.0047
SB-52	18 - 20	7/14/2012	NA	NA	<320	NA	<640	<320
SB-52	26 - 28	7/14/2012	NA	NA	<0.33	NA	<0.65	<0.33
SB-53	16 - 18	7/14/2012	NA	NA	<0.62	NA	22	5.6
SB-53	20 - 22	7/14/2012	NA	NA	<13	NA	180	48
SB-54	16 - 18	7/13/2012	NA	NA	<0.27	NA	<0.54	<0.27
SB-54	20 - 22	7/13/2012	NA	NA	<0.31	NA	<0.62	<0.31
SB-56	10 - 12	7/15/2012	NA	NA	1.6	NA	1.7	0.58
SB-56	16 - 18	7/15/2012	NA	NA	350	NA	<640	<320
SB-57	0 - 2	7/14/2012	NA	NA	<0.0046	NA	<0.0091	<0.0046
SB-57	12 - 14	7/14/2012	NA	NA	4.7	NA	22	5
SB-57	18 - 20	7/14/2012	NA	NA	130	NA	780 E	170
SB-58	18 - 20	7/14/2012	NA	NA	<0.6	NA	<1.2	<0.6
SB-59	10 - 12	7/14/2012	NA	NA	<0.0053	NA	<0.011	<0.0053
SB-59	18 - 20	7/14/2012	NA	NA	0.079	NA	0.042	0.029
SB-60	18 - 20	7/13/2012	NA	NA	<0.6	NA	<1.2	<0.6
SB-61	18 - 20	7/15/2012	NA	NA	<0.28	NA	0.96	<0.28
SB-62	18 - 20	7/15/2012	NA	NA	<0.0077 *	NA	0.084	0.016
SB-63	1 - 2	7/15/2012	NA	NA	<0.0051	NA	<0.01	<0.0051
SB-63	8 - 10	7/15/2012	NA	NA	<5.8	NA	<12	<5.8
SB-63	14 - 16	7/15/2012	NA	NA	<0.55	NA	<1.1	<0.55
SB-64	12 - 14	7/15/2012	NA	NA	<0.0055	NA	0.18	0.02
SB-64	18 - 20	7/15/2012	NA	NA	<0.4	NA	26	0.73
SB-142	0 - 1	1/14/2015	<0.0075	<0.0075	<0.0075	<0.015	0.056	0.019
SB-142	1 - 3	1/14/2015	<0.0065 J	<0.0065 J	0.01 J	<0.013 J	R	R
SB-142	26 - 28	1/14/2015	<0.0045	<0.0045	<0.0045	<0.0091	<0.0045	<0.0045
SB-143	6 - 8	1/14/2015	<0.0057	<0.0057	<0.0057	<0.011	<0.0057	<0.0057
SB-143	18 - 20	1/14/2015	<0.014	<0.014	<0.014	<0.028	<0.014	<0.014
SB-143	22 - 24	1/14/2015	<0.0041	<0.0041	<0.0041	<0.0082	<0.0041	<0.0041
SB-144	0 - 1	1/14/2015	<0.0066	<0.0066	<0.0066	<0.013	<0.0066	<0.0066
SB-144	24 - 25	1/14/2015	<0.0041	<0.0041	<0.0041	<0.0082	<0.0041	<0.0041
SB-145	0 - 1	1/14/2015	<0.0066	<0.0066	<0.0066	<0.013	<0.0066	<0.0066
SB-145	1 - 3	1/14/2015	<0.0077	<0.0077	<0.0077	<0.015	<0.0077	<0.0077
SB-145	17 - 19.5	1/14/2015	<0.0057	<0.0057	<0.0057	<0.011	<0.0057	<0.0057
SB-146	0 - 1	1/14/2015	<0.0069	<0.0069 J	<0.0069 J	<0.014	<0.0069 J	<0.0069 J
SB-146	18 - 19	1/14/2015	<0.0045	<0.0045	<0.0045	<0.009	<0.0045	<0.0045
SB-147	0 - 1	1/14/2015	<0.0055	<0.0055	<0.0055	<0.011	0.04	0.0079
SB-147	22 - 24	1/14/2015	<0.0088	<0.0088	<0.0088	<0.018	<0.0088	<0.0088

Table 4a
Historical and Recent Soil Analytical Summary - Organics
Former Lafarge Road Marking
East Point, Georgia

Location ID	Depth	Date	Acetone	Benzene	Bromodichloromethane	Bromoform	Bromomethane	2-Butanone	Carbon Disulfide	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	Cyclohexane	1,2-Dibromoethane	1,2-Dichlorobenzene	1,3-Dichlorobenzene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Type 2 RRS			400	0.5	-	-	-	-	-	0.5	10		1		74			
Type 4 RRS			400	0.5	-	-	-	-	-	0.5	10		1.3		368			
SB-148	0 - 1	1/14/2015	<0.079	0.0055	<0.0039	<0.0039	<0.0039	<0.039	<0.0079	<0.0039	<0.0039	<0.0079	<0.0039	<0.0079	<0.0039	<0.0039	<0.0039	<0.0039
SB-148	1 - 3	1/14/2015	<48	<2.4	<2.4	<2.4	<2.4	<24	<4.8	<2.4	<2.4	<4.8	<2.4	<4.8	41	<2.4	<2.4	<2.4
SB-148	22 - 23	1/14/2015	9.6 D	<0.0051	<0.0051	<0.0051	<0.0051	4.1 D	<0.01	<0.0051	<0.0051	<0.01	<0.0051	<0.01	0.24 EJ	<0.0051	<0.0051	<0.0051
SB-149	0 - 1	1/15/2015	0.12	<0.0055	<0.0055	<0.0055	<0.0055	<0.055	<0.011	<0.0055	<0.0055	<0.011	<0.0055	<0.011	<0.0055	<0.0055	<0.0055	<0.0055
SB-149	22 - 24	1/15/2015	<0.11	<0.0055	<0.0055	<0.0055	<0.0055	<0.055	<0.011	<0.0055	<0.0055	<0.011	<0.0055	<0.011	<0.0055	<0.0055	<0.0055	<0.0055
SB-150	0 - 1	1/15/2015	0.11	<0.0041	<0.0041	<0.0041	<0.0041	<0.041	<0.0082	<0.0041	<0.0041	<0.0082	<0.0041	<0.0082	<0.0041	<0.0041	<0.0041	<0.0041
SB-150	16 - 18	1/15/2015	<0.093	<0.0047	<0.0047	<0.0047	<0.0047	<0.047	<0.0093	<0.0047	<0.0047	<0.0093	<0.0047	<0.0093	<0.0047	<0.0047	<0.0047	<0.0047
SB-150	22 - 24	1/15/2015	<0.15	<0.0073	<0.0073	<0.0073	<0.0073	<0.073	<0.015	<0.0073	<0.0073	<0.015	<0.0073	<0.015	<0.0073	<0.0073	<0.0073	<0.0073
SB-151	0 - 1	1/15/2015	0.18	<0.0052	<0.0052	<0.0052	<0.0052	<0.052	<0.01	<0.0052	<0.0052	<0.01	<0.0052	<0.01	<0.0052	<0.0052	<0.0052	<0.0052
SB-151	14 - 16	1/15/2015	0.11	<0.0048	<0.0048	<0.0048	<0.0048	<0.048	<0.0097	<0.0048	<0.0048	<0.0097	<0.0048	<0.0097	22 D	<0.0048	<0.0048	<0.0048
SB-151	22 - 23	1/15/2015	<0.11	<0.0056	<0.0056	<0.0056	<0.0056	<0.056	<0.011	<0.0056	<0.0056	<0.011	<0.0056	<0.011	<0.0056	<0.0056	<0.0056	<0.0056
SB-152	0 - 1	1/15/2015	<0.087	<0.0044	<0.0044	<0.0044	<0.0044	<0.044	<0.0087	<0.0044	<0.0044	<0.0087	<0.0044	<0.0087	0.1	<0.0044	<0.0044	<0.0044
SB-152	18 - 20	1/15/2015	<0.11	<0.0053	<0.0053	<0.0053	<0.0053	<0.053	<0.011	<0.0053	<0.0053	<0.011	<0.0053	<0.011	6.9 D	<0.0053	<0.0053	<0.0053
SB-152	22 - 24	1/15/2015	<0.089	<0.0045	<0.0045	<0.0045	<0.0045	<0.045	<0.0089	<0.0045	<0.0045	<0.0089	<0.0045	<0.0089	<0.0045	<0.0045	<0.0045	<0.0045
SB-153	20 - 22	1/15/2015	<0.15	<0.0075	<0.0075	<0.0075	<0.0075	<0.075	<0.015	<0.0075	<0.0075	<0.015	<0.0075	<0.015	<0.0075	<0.0075	<0.0075	<0.0075
SB-153	22 - 24	1/15/2015	<0.084	<0.0042	<0.0042	<0.0042	<0.0042	<0.042	<0.0084	<0.0042	<0.0042	<0.0084	<0.0042	<0.0084	<0.0042	<0.0042	<0.0042	<0.0042

Exceeds Type 2 RRS
Exceeds Type 4 RRS
NA Not Analyzed
Bold Detected above laboratory reporting limits

Table 4a
Historical and Recent Soil Analytical Summary - Organics
Former Lafarge Road Marking
East Point, Georgia

Location ID	Depth	Date	1,4-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,2-Dichloropropane	cis-1,3-Dichloropropene	trans-1,3-Dichloropropene	Ethylbenzene	Methylene Chloride	4-Methyl-2-pentanone	Tetrachloroethene	Toluene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Type 2 RRS					110		0.7	7			--		30	0.5	200	0.5	100
Type 4 RRS					134		3.7	7			--		38	2.3	200	0.89	100
SB-148	0 - 1	1/14/2015	<0.0039	<0.0079	<0.0039	<0.0039	<0.0039	<0.0039	<0.0039	<0.0039	<0.0039	<0.0039	0.0097	<0.016	<0.0079	<0.0039	<0.0039
SB-148	1 - 3	1/14/2015	<2.4	<4.8	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	89	<9.7	49	<2.4	<2.4
SB-148	22 - 23	1/14/2015	<0.0051	<0.01	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	0.35 D	<0.021	0.34	0.008	<0.0051
SB-149	0 - 1	1/15/2015	<0.0055	<0.011	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.022	<0.011	<0.0055	<0.0055
SB-149	22 - 24	1/15/2015	<0.0055	<0.011	<0.0055	<0.0055	<0.0055	0.08	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.022	<0.011	<0.0055	<0.0055
SB-150	0 - 1	1/15/2015	<0.0041	<0.0082	<0.0041	<0.0041	<0.0041	<0.0041	<0.0041	<0.0041	<0.0041	<0.0041	<0.0041	<0.016	<0.0082	<0.0041	<0.0041
SB-150	16 - 18	1/15/2015	<0.0047	<0.0093	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.019	<0.0093	<0.0047	<0.0047
SB-150	22 - 24	1/15/2015	<0.0073	<0.015	<0.0073	<0.0073	<0.0073	<0.0073	<0.0073	<0.0073	<0.0073	<0.0073	<0.0073	<0.029	<0.015	<0.0073	<0.0073
SB-151	0 - 1	1/15/2015	<0.0052	<0.01	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.021	<0.01	<0.0052	<0.0052
SB-151	14 - 16	1/15/2015	<0.0048	<0.0097	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	0.11	<0.019	<0.0097	<0.0048	<0.0048
SB-151	22 - 23	1/15/2015	<0.0056	<0.011	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.023	<0.011	<0.0056	<0.0056
SB-152	0 - 1	1/15/2015	<0.0044	<0.0087	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.017	<0.0087	<0.0044	<0.0044
SB-152	18 - 20	1/15/2015	<0.0053	<0.011	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.021	<0.011	<0.0053	<0.0053
SB-152	22 - 24	1/15/2015	<0.0045	<0.0089	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.018	<0.0089	<0.0045	<0.0045
SB-153	20 - 22	1/15/2015	<0.0075	<0.015	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	<0.03	<0.015	<0.0075	<0.0075
SB-153	22 - 24	1/15/2015	<0.0042	<0.0084	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.017	<0.0084	<0.0042	<0.0042

Exceeds Type 2 RRS
 Exceeds Type 4 RRS
 NA Not Analyzed
Bold Detected above laborat

Table 4a
Historical and Recent Soil Analytical Summary - Organics
Former Lafarge Road Marking
East Point, Georgia

Location ID	Depth	Date	1,1,1- Trichloroethane	1,1,2- Trichloroethane	Trichloroethene	Vinyl Chloride	m,p-Xylene	o-Xylene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Type 2 RRS			20	0.5	0.5	0.0002	--	20
Type 4 RRS			98	0.8	0.5	0.00025	--	20
SB-148	0 - 1	1/14/2015	<0.0039	<0.0039	<0.0039	<0.0079	<0.0039	<0.0039
SB-148	1 - 3	1/14/2015	<2.4	<2.4	<2.4	<4.8	28	<2.4
SB-148	22 - 23	1/14/2015	<0.0051	<0.0051	<0.0051	<0.01	2.7 D	0.51 D
SB-149	0 - 1	1/15/2015	<0.0055	<0.0055	<0.0055	<0.011	<0.0055	<0.0055
SB-149	22 - 24	1/15/2015	<0.0055	<0.0055	<0.0055	<0.011	<0.0055	<0.0055
SB-150	0 - 1	1/15/2015	<0.0041	<0.0041	<0.0041	<0.0082	<0.0041	<0.0041
SB-150	16 - 18	1/15/2015	<0.0047	<0.0047	<0.0047	<0.0093	<0.0047	<0.0047
SB-150	22 - 24	1/15/2015	<0.0073	<0.0073	<0.0073	<0.015	<0.0073	<0.0073
SB-151	0 - 1	1/15/2015	<0.0052	<0.0052	<0.0052	<0.01	<0.0052	<0.0052
SB-151	14 - 16	1/15/2015	<0.0048	<0.0048	<0.0048	<0.0097	0.86 D	<0.0048
SB-151	22 - 23	1/15/2015	<0.0056	<0.0056	<0.0056	<0.011	<0.0056	<0.0056
SB-152	0 - 1	1/15/2015	<0.0044	<0.0044	<0.0044	<0.0087	<0.0044	<0.0044
SB-152	18 - 20	1/15/2015	<0.0053	<0.0053	<0.0053	<0.011	0.14 J	0.015 J
SB-152	22 - 24	1/15/2015	<0.0045	<0.0045	<0.0045	<0.0089	<0.0045	<0.0045
SB-153	20 - 22	1/15/2015	<0.0075	<0.0075	<0.0075	<0.015	<0.0075	<0.0075
SB-153	22 - 24	1/15/2015	<0.0042	<0.0042	<0.0042	<0.0084	<0.0042	<0.0042

Exceeds Type 2 RRS
 Exceeds Type 4 RRS
 NA Not Analyzed
Bold Detected above laborat

Table 4b
Historical and Recent Soil Analytical Summary - Lead
Former Lafarge Road Marking
East Point, Georgia

Location ID	Depth	Date	Lead
			mg/kg
		Type 2 RRS	270
		Type 4 RRS	400
SB-1	1 - 2	3/9/2010	36
SB-1	15 - 17	3/9/2010	6.28
SB-1	20 - 22	3/9/2010	6.13
SB-2	1 - 2	3/9/2010	17
SB-2	13 - 15	3/9/2010	9.25
SB-2	20 - 22	3/9/2010	8.94
SB-3	1 - 2	3/9/2010	1,010
SB-3	8 - 10	3/9/2010	14.2
SB-3	20 - 22	3/9/2010	24.6
SB-4	1 - 2	3/9/2010	48.5
SB-4	18 - 20	3/9/2010	11.2
SB-4	20 - 22	3/9/2010	11.1
SB-5	1 - 2	3/9/2010	255
SB-5	10 - 12	3/9/2010	116
SB-5	20 - 22	3/9/2010	7.75
SB-6	1 - 2	3/9/2010	102
SB-6	10 - 12	3/9/2010	129
SB-6	20 - 22	3/9/2010	<5.78
SB-7	1 - 2	3/9/2010	287
SB-7	8 - 10	3/9/2010	20.6
SB-7	20 - 22	3/9/2010	<5.85
SB-8	1 - 2	3/9/2010	139
SB-8	13 - 15	3/9/2010	<6.05
SB-8	20 - 22	3/9/2010	10.1
SB-9	1 - 2	3/9/2010	1,010
SB-9	5 - 7	3/9/2010	21.2
SB-9	20 - 22	3/9/2010	6.59
SB-10	1 - 2	8/24/2010	460
SB-11	1 - 2	8/24/2010	180
SB-12	1 - 2	8/24/2010	25
SB-13	1 - 2	8/24/2010	350
SB-14	1 - 2	8/24/2010	29
SB-15	1 - 2	8/25/2010	15
SB-16	1 - 2	8/25/2010	100
SB-19	1 - 2	8/25/2010	27
SB-21	1 - 2	8/25/2010	12
SB-23A	0 - 2	7/13/2012	270
SB-24	1 - 2	8/25/2010	22
SB-25	1 - 2	8/25/2010	13
SB-26	1 - 2	8/25/2010	310
SB-27	1 - 2	8/25/2010	520
SB-29	1 - 2	8/25/2010	18
SB-30	1 - 2	8/25/2010	110
SB-31	1 - 2	8/25/2010	210
SB-32	1 - 2	8/25/2010	1,500
SB-33	1 - 2	8/26/2010	11
SB-34	1 - 2	8/26/2010	28
SB-36	1 - 2	8/26/2010	30
SB-37	1 - 2	8/26/2010	61
SB-38	1 - 2	8/26/2010	12
SB-39	1 - 2	8/26/2010	640
SB-40	1 - 2	8/26/2010	890
SB-41A	0 - 2	7/15/2012	36
SB-46	0 - 2	7/13/2012	890
SB-47	0 - 2	7/13/2012	210
SB-48	0 - 2	7/13/2012	22
SB-49	1 - 2	7/13/2012	230
SB-55	0 - 2	7/13/2012	820
SB-56	0 - 2	7/15/2012	160
SB-56	2 - 4	7/15/2012	81
SB-57	0 - 2	7/14/2012	500
SB-57	2 - 4	7/14/2012	2,100

Table 4b
Historical and Recent Soil Analytical Summary - Lead
Former Lafarge Road Marking
East Point, Georgia

Location ID	Depth	Date	Lead
			mg/kg
		Type 2 RRS	270
		Type 4 RRS	400
SB-58	2 - 3	7/14/2012	15
SB-60	0 - 2	7/13/2012	110
SB-62	0 - 2	7/15/2012	15
SB-64	0 - 2	7/15/2012	620
SB-65	0 - 2	7/15/2012	260
SB-66	0 - 2	7/15/2012	53
SB-67	0 - 2	7/15/2012	230
SB-68	0 - 2	7/15/2012	380
SB-69	0 - 2	7/15/2012	150
SB-100	0	5/20/2013	267
SB-101	0	5/20/2013	1,060
SB-102	0	5/20/2013	887
SB-103	0	5/20/2013	933
SB-104	0	5/20/2013	6,290
SB-105	0	5/20/2013	897
SB-110	0 - 1	7/24/2013	374
SB-111	0 - 2	7/24/2013	180
SB-112	0 - 2	7/24/2013	295
SB-113	0 - 2	7/24/2013	549
SB-115	0 - 2	7/24/2013	2,080
SB-116	0 - 2	7/24/2013	507
SB-117	0 - 2	7/24/2013	1,030
SB-118	0 - 2	7/24/2013	1,270
SB-119	0 - 2	7/24/2013	664
SB-120	0 - 1	7/24/2013	636
SB-121	0 - 2	8/5/2013	1,040
SB-122	0 - 2	8/5/2013	1,450
SB-123	0 - 2	8/5/2013	938
SB-124	0 - 2	8/5/2013	813
SB-125	0 - 2	8/5/2013	1,420
SB-126	0 - 2	8/5/2013	1,120
SB-127	0 - 1	8/12/2013	364
SB-128	0 - 1	8/12/2013	262
SB-130	0 - 0.5	8/15/2013	165
SB-131	0 - 2	8/15/2013	1,130
SB-131B	0 - 2	8/22/2013	300
SB-132	0 - 2	8/15/2013	241
SB-133	0 - 2	8/15/2013	483
SB-133B	0 - 2	8/22/2013	241
SB-134	0 - 2	8/15/2013	354
SB-135	0 - 2	8/15/2013	158
SB-136	0 - 0.5	8/15/2013	531
SB-137	0 - 0.5	8/15/2013	843
SB-138	0 - 0.5	8/15/2013	425
SB-139	0 - 2	8/22/2013	781
SB-140	0 - 2	8/22/2013	213
SB-141	0 - 2	8/22/2013	370
SB-142	0 - 1	1/14/2015	39 J
SB-142	1 - 3	1/14/2015	339 J
SB-142	8 - 10	1/14/2015	21.2 J
SB-142	26 - 28	1/14/2015	19.9 J
SB-143	1 - 3	1/14/2015	13.7
SB-143	8 - 10	1/14/2015	9.65 J
SB-143	18 - 20	1/14/2015	16.6 J
SB-144	0 - 1	1/14/2015	111 J
SB-144	1 - 3	1/14/2015	11.6 J
SB-144	8 - 10	1/14/2015	8.5 J
SB-144	24 - 25	1/14/2015	<6.2 J
SB-145	0 - 1	1/14/2015	20.4 J
SB-145	1 - 3	1/14/2015	17.1 J
SB-145	8 - 10	1/14/2015	13 J
SB-145	17 - 19.5	1/14/2015	<5.76 J

Table 4b
Historical and Recent Soil Analytical Summary - Lead
Former Lafarge Road Marking
East Point, Georgia

Location ID	Depth	Date	Lead
			mg/kg
Type 2 RRS			270
Type 4 RRS			400
SB-146	1 - 3	1/14/2015	14.5 J
SB-146	8 - 10	1/14/2015	6.77 J
SB-146	18 - 19	1/14/2015	<5.15 J
SB-147	0 - 1	1/14/2015	141 J
SB-147	1 - 3	1/14/2015	45.4 J
SB-147	8 - 10	1/14/2015	<6.26 J
SB-147	22 - 24	1/14/2015	<6.43 J
SB-148	0 - 1	1/14/2015	148 J
SB-148	1 - 3	1/14/2015	15.9 J
SB-148	8 - 10	1/14/2015	15.7 J
SB-148	22 - 23	1/14/2015	9.25 J
SB-149	0 - 1	1/15/2015	17.4 J
SB-149	1 - 3	1/15/2015	21.4 J
SB-149	8 - 10	1/15/2015	23.6 J
SB-149	22 - 24	1/15/2015	18.8 J
SB-150	0 - 1	1/15/2015	107 J
SB-150	1 - 3	1/15/2015	141 J
SB-150	8 - 10	1/15/2015	61.3 J
SB-150	22 - 24	1/15/2015	10.6 J
SB-151	0 - 1	1/15/2015	157 J
SB-151	1 - 3	1/15/2015	254 J
SB-151	8 - 10	1/15/2015	<5.84 J
SB-151	22 - 23	1/15/2015	9.21 J
SB-152	0 - 1	1/15/2015	64 J
SB-152	1 - 3	1/15/2015	13.9 J
SB-152	8 - 10	1/15/2015	12.3 J
SB-152	22 - 24	1/15/2015	8.14 J
SB-153	8 - 10	1/15/2015	<6.11 J
SB-153	22 - 24	1/15/2015	5.64 J

**Table 5
Vapor Treatment System Analytical Summary
Lafarge Road Marking
East Point, Georgia**

Sample Location	Sample Date	Hour Meter	System Vacuum (in. Hg)	Flow Rate (scfm)	OVA (ppm)	Benzene	Toluene	Ethyl-benzene	Total Xylenes	n-Heptane	n-Hexane	Methylene Chloride	cis-1-2-Dichloroethene	TCE	Total cVOCs	TRPH	Emission/Recovery Rate (lb/day)	Emission/Recovery Mass (lbs)	Total Mass Recovered (lbs)
SVE INF	10/8/13	6	10	1,200	291	10 U	2,500	120	395	2,400	9,500	10 U	200	530	730	38,000	4,168.9	1,042.2	1,042
SVE INF	10/9/13	24	9	1,195	1,166	10 U	3,000	140	472	2,200	9,000	10 U	300	710	1,010	38,000	4,181.5	3,136.2	4,178
SVE INF	10/10/13	40	7	880	1,157	10 U	2,600	55	857	2,000	7,300	10 U	48	600	648	35,000	2,813.9	1,875.9	6,054
SVE INF	10/15/13	58	8	1,492	3,000	10 U	3,200	200	761	2,400	8,100	10 U	250	840	1,090	35,000	4,830.0	3,622.5	9,677
SVE INF	10/16/13	74	9	1,493	4,990	10 U	2,300	150	453	1,600	5,500	10 U	270	690	960	25,000	3,476.6	2,317.7	11,995
SVE INF	11/18/13	96	6	1,494	600	10 U	360	210	830	2,000	6,600	10 U	310	800	1,110	31,000	4,303.1	3,944.5	15,939
SVE INF	11/19/13	120	6	1,494	749	10 U	1,800	130	527	1,100	3,200	10 U	170	630	800	17,000	2,385.4	2,385.4	18,325
SVE INF	11/20/13	144	6	1,494		10 U	1,300	99	268	830	2,200	16	97	470	567	12,000	1,684.1	1,684.1	20,009
SVE INF	12/16/13	160	6	494		10 U	3,100	120	427	1,500	1,900	84	620	2,300	2,920	17,000	882.7	588.5	20,597
SVE INF	12/20/13	168	6	594		10 U	1,900	84	312	860	1,300	17	170	1,200	1,370	10,000	605.8	201.9	20,799
SVE INF	12/23/13	216	6	594		10 U	2,400	110	458	900	1,300	10 U	180	1,300	1,480	11,000	665.0	1,329.9	22,129
SVE INF	12/27/13	314	8	619	1,130	10 U	1,100	57	222	460	820	10 U	40	430	470	5,800	348.1	1,421.6	23,551
SVE INF	1/2/14	402	9	559	925	10 U	1,200	66	247	460	1,100	10 U	37	310	347	6,500	343.3	1,258.9	24,809
SVE INF	1/10/14	545	10	526		10 U	820	50	186	360	1,000	10 U	24	180	204	5,200	255.0	1,519.2	26,329
SVE INF	1/18/14	666	10	597		10 U	560	37	155	180	620	10 U	10	81	91	3,100	170.9	861.5	27,190
SVE INF	1/24/14	786	6	617		10 U	430	29	111	160	540	10 U	10 U	57	57	2,600	147.1	735.3	27,925
SVE INF	2/1/14	930	8	615	434	10 U	400	27	101	160	540	10 U	10 U	57	57	2,600	146.6	879.4	28,805
SVE INF	2/6/14	1,014	9	517		10 U	550	34	131	180	480	10 U	15	54	69	2,600	123.8	433.2	29,238
SVE INF	3/5/14	1,470	9	862		10 U	580	42	166	200	330	10 U	10 U	54	54	2,800	220.7	4,192.8	33,431
SVE INF	3/20/14	1,830	8	599		14	500	62	272	220	330	10 U	10U	54	54	2,900	158.7	2,380.8	35,812
SVE INF	4/8/14	2,214	8	648	2,468	10 U	550	42	131	180	480	10 U	15	54	69	2,600	155.1	2,482.2	38,294
SVE INF	4/25/14	2,262	10	483	621	10 U	330	28	119	150	190	10 U	18	110	128	1,900	87.9	175.7	38,470
SVE INF	5/23/14	2,934	4	815	364	10 U	280	33	127	120	170	10 U	10	77	87	1,800	138.0	3,862.6	42,332
SVE INF	7/16/14	3,636	4	808		16	360	39	204	180	290	10 U	18	140	158	2,700	207.1	6,058.9	48,391
SVE-INF	8/5/14	4,270	8	298		20	440	53	252	250	410	10U	18	130	148	3,700	102.9	2,716.8	51,108
SVE INF	10/21/14	5,678	3	173		50	700	37	196	360	1,600	10 U	260	290	550	7,600	126.5	7,419.7	58,528
SVE INF	10/22/14	5,697	2	160		28	380	23	109	250	1,200	10 U	100	130	230	5,600	83.7	67.3	58,595
SVE INF	11/4/14	5,966	2	223		75	1,100	83	401	700	1,800	10 U	220	360	580	12,000	251.6	2,815.2	61,410
SVE INF	1/20/15	6,726	3	242	879	40	620	55	277	350	1,200	10 U	110	170	280	7,000	158.0	5,004.9	66,415
SVE INF	1/20/15	6,729	3	242		55	770	62	337	460	1,200	10 U	90	180	270	8,100	181.7	22.0	66,437
SVE INF	1/20/15	6,730	3	242		60	700	50	265	430	1,400	10U	120	200	320	8,500	191.5	8.8	66,446
SVE INF	1/29/15	6,917	2	287	767	110	600	72	294	1,200	4,200	10 U	38	10 U	38	19,000	489.3	3,820.3	70,266
SVE INF	1/29/15	6,921	2	287	750	190	1,200	86	366	1,700	8,700	10 U	92	19	111	33,000	850.9	148.9	70,415
SVE INF	1/29/15	6,926	2	287	780	240	1,200	100	447	2,700	10,000	10 U	64	10 U	64	37,000	952.5	174.6	70,590
SVE INF	2/23/15	7,136	2	279		110	1,200	64	300	1,100	2,900	10 U	57	89	146	15,000	379.0	3,321.1	73,911
SVE INF	2/23/15	7,137	2	279	1,117	93	1,000	47	216	830	2,400	10 U	50	82	132	13,000	328.6	15.1	73,926
SVE INF	3/26/15	7,630	2	223		260	2,300	75	326	1,600	6,100	10 U	210	450	660	29,000	593.3	12,190.1	86,116
SVE INF	3/26/15	7,636	2	223	1,740	92	1,200	85	406	720	1,400	10 U	42	160	202	11,000	224.1	51.4	86,167
SVE EFF	10/8/13	6	10	1,200	62	10 U	10 U	10 U	30 U	10 U	10 U	10 U	150	10 U	150	100 U	21.5	5.4	5
SVE EFF	10/9/13	24	9	1,195	96	10 U	74	10	24	21	16	10 U	10	25	35	820	91.6	68.7	74
SVE EFF	10/10/13	40	7	880	4	10 U	10 U	10 U	30 U	10 U	10 U	10 U	10 U	10 U	BDL	100 U	4.3	2.9	77
SVE EFF	10/15/13	58	8	1,492	5	10 U	10 U	10 U	30 U	10 U	10 U	10 U	10 U	10 U	BDL	100 U	7.4	5.5	83
SVE EFF	10/16/13	74	9	1,493	229	10 U	10 U	10 U	30 U	10 U	14,000	10 U	10 U	10 U	BDL	25,000	3,348.1	2,232.0	2,315
SVE EFF	11/18/13	96	6	1,494	10	10 U	10 U	10 U	30 U	10 U	10 U	10 U	10 U	10 U	BDL	100 U	7.4	6.8	2,321
SVE EFF	11/19/13	120	6	1,494	3	10 U	10 U	10 U	30 U	10 U	10 U	10 U	10 U	10 U	BDL	100 U	7.4	7.4	2,329
SVE EFF	11/20/13	144	6	1,494	3	10 U	10 U	10 U	30 U	10 U	10 U	10 U	10 U	10 U	BDL	120	16.1	16.1	2,345
SVE EFF	11/21/13	160	6	494	3	10 U	10 U	10 U	30 U	10 U	10 U	10 U	10 U	10 U	BDL	100 U	2.4	1.6	2,346
GAC-MID	12/20/13	168	6	594		10 U	10 U	10 U	30 U	10 U	10 U	10 U	10 U	10 U	BDL	100 U	2.9	1.0	2,347
SVE EFF	12/27/13	216	6	594	0	10 U	10 U	10 U	30 U	10 U	10 U	10 U	10 U	10 U	BDL	100 U	2.9	5.9	2,353
SVE EFF	1/2/14	314	8	619	0	10 U	10 U	10 U	30 U	10 U	10 U	10 U	10 U	10 U	BDL	100 U	3.1	12.5	2,366
SVE EFF	1/10/14	402	9	559		10 U	10 U	10 U	30 U	10 U	10 U	10 U	10 U	10 U	BDL	100 U	2.8	10.1	2,376

Table 5
Vapor Treatment System Analytical Summary
Lafarge Road Marking
East Point, Georgia

Sample Location	Sample Date	Hour Meter	System Vacuum (in. Hg)	Flow Rate (scfm)	OVA (ppm)	Benzene	Toluene	Ethyl-benzene	Total Xylenes	n-Heptane	n-Hexane	Methylene Chloride	cis-1-2-Dichloroethene	TCE	Total cVOCs	TRPH	Emission/Recovery Rate (lb/day)	Emission/Recovery Mass (lbs)	Total Mass Recovered (lbs)
SVE EFF	1/18/14	545	10	526		10 U	10 U	10 U	30 U	10 U	10 U	10 U	10 U	10 U	BDL	100 U	2.6	15.5	2,391
SVE EFF	1/18/14	666	10	597		10 U	10 U	10 U	30 U	10 U	10 U	10 U	10 U	10 U	BDL	100 U	2.9	14.8	2,406
SVE EFF	1/24/14	786	6	617		10 U	10 U	10 U	30 U	10 U	10 U	10 U	10 U	10 U	BDL	100 U	3.0	15.2	2,421
SVE EFF	2/1/14	930	8	615	48	10 U	10 U	10 U	30 U	10 U	10 U	10 U	10 U	10 U	BDL	620	34.2	205.2	2,627
SVE EFF	2/6/14	1,014	9	517		10 U	10 U	10 U	30 U	10 U	11	10 U	10 U	10 U	BDL	700	32.5	113.6	2,740
SVE EFF	3/5/14	1,470	9	862		10 U	10 U	10 U	30 U	10 U	10 U	10 U	10 U	10 U	BDL	100 U	4.3	80.8	2,821
SVE EFF	3/20/14	1,830	8	599	48	10 U	10 U	10 U	30 U	10 U	10 U	10 U	10 U	10 U	BDL	100 U	3.0	44.3	2,865
SVE EFF	4/8/14	2,214	8	648		10 U	10 U	10 U	30 U	10 U	520	10 U	10 U	10 U	BDL	1,100	63.9	1,025.4	3,891
SVE EFF	4/25/14	2,262	10	483		10 U	10 U	10 U	30 U	10 U	10 U	10 U	10 U	10 U	BDL	100 U	2.4	4.8	3,895
SVE EFF	5/23/14	2,934	4	815		10 U	10 U	10 U	30 U	10 U	10 U	10 U	10 U	10 U	BDL	100 U	4.0	112.6	4,008
SVE EFF	7/16/14	3,636	4	808		10 U	10 U	10 U	30 U	10 U	10 U	10 U	10 U	10 U	BDL	100 U	4.0	116.6	4,125
SVE-EFF	8/5/14	4,270	8	298		10 U	10 U	10 U	30 U	10 U	10 U	10 U	10 U	10 U	BDL	100 U	1.5	38.8	4,163
SVE-EFF	9/23/14	5,366	4	851		10 U	16	10 U	21	10 U	10 U	10 U	10 U	10 U	BDL	380	29.0	1,324.7	5,488
SVE-EFF	10/21/14	5,678	3	173	0	10 U	10 U	10 U	30 U	10 U	10 U	10 U	10 U	10 U	BDL	100 U	0.9	11.1	5,499
SVE-EFF	10/22/14	5,697	2	160	0	10 U	10 U	10 U	30 U	10 U	10 U	10 U	10 U	10 U	BDL	100 U	0.8	0.6	5,500
SVE-EFF	3/26/15	7,630	2	223	1	10 U	10 U	10 U	30 U	10 U	10 U	10 U	10 U	10 U	BDL	100 U	1.1	88.6	5,588
GAC-MID	12/20/13	200	6	250		10 U	10 U	10 U	30 U	10 U	10 U	10 U	10 U	10 U	BDL	100 U	1.2	10.3	--
GAC-MID	2/1/14	930	6	177		10 U	10 U	10 U	30 U	29	850	10 U	19	270	289	2,600	45.9	1,777.4	--
GAC-MID	4/8/14	2,214	8	500	320	10 U	180	10 U	30 U	180	170	10 U	10 U	42	42	1,000	46.7	3,921.7	--
Z1 SVE INF	11/21/13	24	5	339		10 U	270	37	147	100	21	10 U	35	61	96	1,600	51.6	51.6	--
Z1 SVE INF	11/21/13	24	5	339		10 U	1,100	87	300	950	1,000	10 U	10	410	420	9,700	307.7	307.7	--
Z1 SVE INF	3/5/14	24	8	250		10 U	100	14	72	48	35	10 U	14	19	33	930	21.6	21.6	--
Z1 SVE INF	1/20/15	12	3	242		55	770	62	337	460	1,200	10 U	90	180	270	8,100	181.7	90.8	--
Z2 SVE INF	11/21/13	24	4	208		10 U	1,400	59	233	610	560	57	350	1,200	1,550	6,600	152.1	152.1	--
Z2 SVE INF	11/21/13	24	4	208		10 U	2,100	89	321	1,100	1,400	130	600	1,700	2,300	12,000	266.8	266.8	--
Z2 SVE INF	12/19/13	24	4	260		10 U	3,100	120	427	1,500	1,900	84	620	2,300	2,920	17,000	464.6	464.6	--
Z2 SVE INF	3/5/14	24	8	250		10 U	1,800	120	481	600	1,000	10U	11	140	151	7,700	176.1	176.1	--
Z2 SVE INF	5/23/14	24	8	285		29	830	97	379	350	480	10U	28	220	248	5,200	139.3	139.3	--
Z2 SVE INF	7/16/14	24	8	301		45	1,100	100	526	510	920	10U	56	430	486	7,500	215.6	215.6	--
Z2 SVE INF	1/20/15	12	3	242		60	700	50	265	430	1,400	10U	120	200	320	8,500	191.5	95.7	--
Z3 SVE INF	11/21/13	24	4	381		10 U	3,600	240	750	1,200	2,900	10 U	73	900	973	20,000	716.8	716.8	--
Z3 SVE INF	11/21/13	24	4	381		10 U	4,800	310	1,020	2,100	8,900	10 U	81	1,100	1,181	36,000	1,270.7	1,270.7	--
Z3 SVE INF	1/29/15	24	2	287		190	1,200	86	366	1,700	8,700	10 U	92	19	111	33,000	850.9	850.9	--
Z3 SVE INF	2/23/15	12	2	250		93	1,000	47	216	830	2,400	10 U	50	82	132	13,000	294.5	147.2	--
Z3 SVE INF	3/26/15	12	2	223		260	2,300	75	326	1,600	6,100	10 U	210	450	660	29,000	593.3	296.6	--
Z4 SVE INF	11/21/13	24	4	389		10 U	590	77	131	1,000	3,500	10 U	12	33	45	16,000	559.9	559.9	--
Z4 SVE INF	11/21/13	24	4	389		10 U	1,200	150	397	3,100	9,600	10 U	18	91	109	36,000	1,260.0	1,260.0	--
Z4 SVE INF	1/29/15	24	2	287		240	1,200	100	447	2,700	10,000	10 U	64	10 U	64	37,000	952.5	952.5	--
Z4 SVE INF	2/23/15	12	2	250		110	1,200	64	300	1,100	2,900	10 U	57	89	146	15,000	339.6	169.8	--
Z4 SVE INF	3/26/15	12	2	223		92	1,200	85	406	720	1,400	10 U	42	160	202	11,000	224.1	112.0	--

Notes:
Analytical Results = mg/m³
in. Hg = inches of mercury
ppm = parts per million
lbs = pounds
TCE = trichlorethene
cVOC = chlorinated Volatile Organic Compounds
TRPH = total recoverable petroleum hydrocarbons
Italics = estimated (flow rate) or estimate hour meter reading

Table 6a
Groundwater Recovery and Treatment System Operation Summary - 2014
Lafarge Road Marking
East Point, Georgia

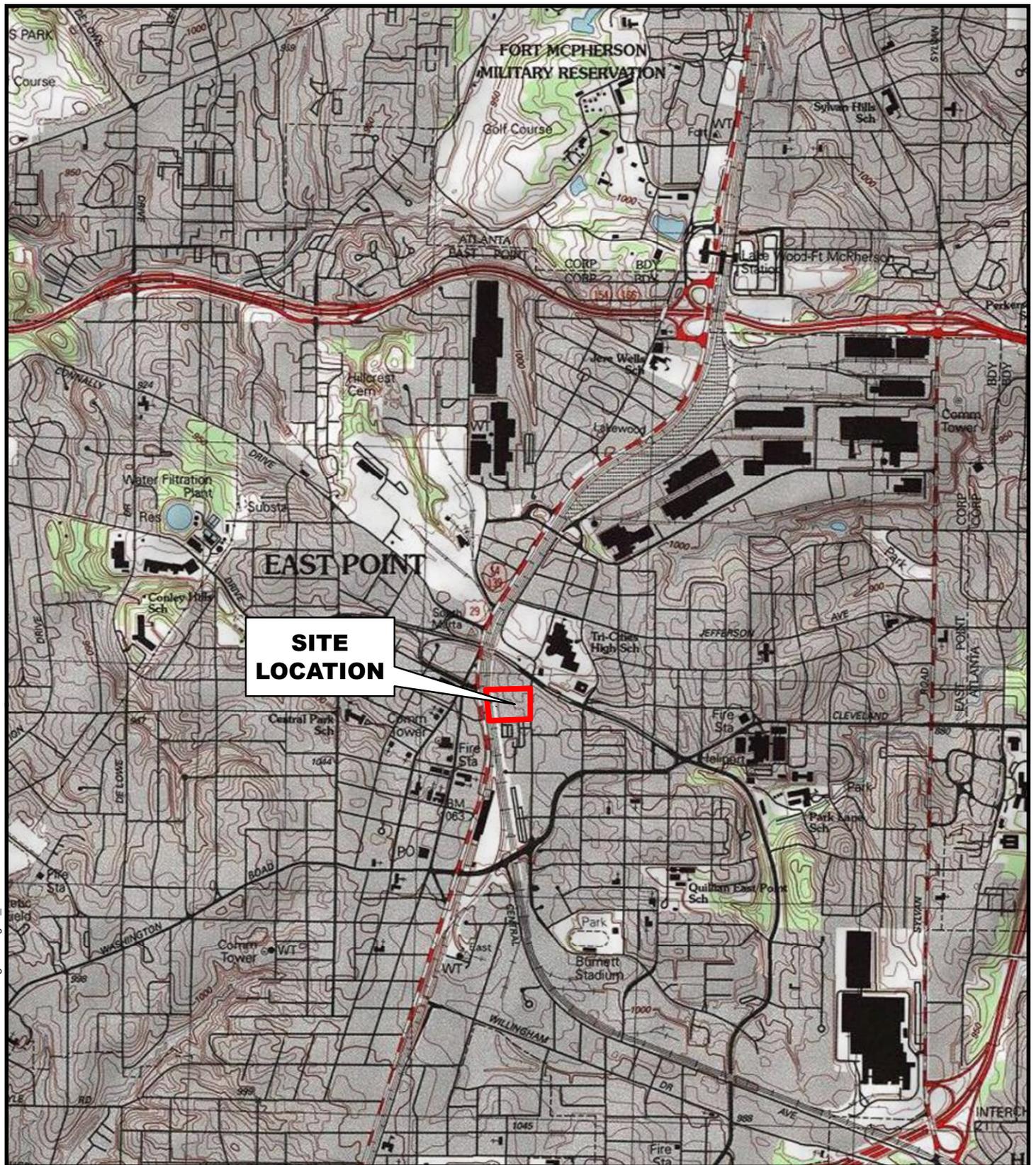
Month	Average Influent Total VOC (ug/l)	Estimated Total VOC Removed (lbs)	Plant Influent (gal)	Discharged	
				to POTW (gal)	to Infiltration Gallery (gal)
January	339	1.39	491,122	491,122	0
February	471	1.62	413,256	413,256	0
March	67,594	308.56	547,351	547,351	0
April	54,995	212.74	463,834	463,834	0
May	31,740	137.63	519,911	519,911	0
June	26,470	105.78	479,163	479,163	0
July	20,558	67.30	392,540	392,540	0
August	9,062	34.61	457,909	457,909	0
September	15,335	60.68	474,438	474,438	0
October	9,963	31.28	376,457	376,457	0
November	5,076	18.82	444,648	444,648	0
December	5,156	22.90	532,608	532,608	0
Annual Total	246,759	1003.31	5,593,237	5,593,237	0
Monthly Average	20,563	83.61	466,103	466,103	0

Table 6b
Groundwater Recovery and Treatment System Operation Summary - 2015
Lafarge Road Marking
East Point, Georgia

Month	Average Influent Total VOC (ug/l)	Estimated Total VOC Removed (lbs)	Plant Influent (gal)	Discharged	
				to POTW (gal)	to Infiltration Gallery (gal)
January	4,573	19.63	514,626	514,626	0
February	7,517	32.28	514,864	514,864	0
March	42,090	217.81	620,502	620,502	0
April					0
May					0
June					0
July					0
August					0
September					0
October					0
November					0
December					0
Annual Total	54,180	269.72	1,649,992	1,649,992	0
Monthly Average	18,060	89.91	549,997	549,997	0

Figures

CITY: AUGUSTA DIV/GROUP: ENV DB: A. Saul LD: A. Saul PIC: PM: TM: TR: Project Number: Pat: G:\ENVCAD\Augusta-GA\ACT\HT212516\0012000001\2012 Figures\Fig01_HT212516.mxd Date Saved: 10/3/2012 1:10:15 PM



County Location



Source: USGS SW Atlanta, GA 7.5 Minute Quadrangle from ArcGIS Online Services Hosted by ESRI

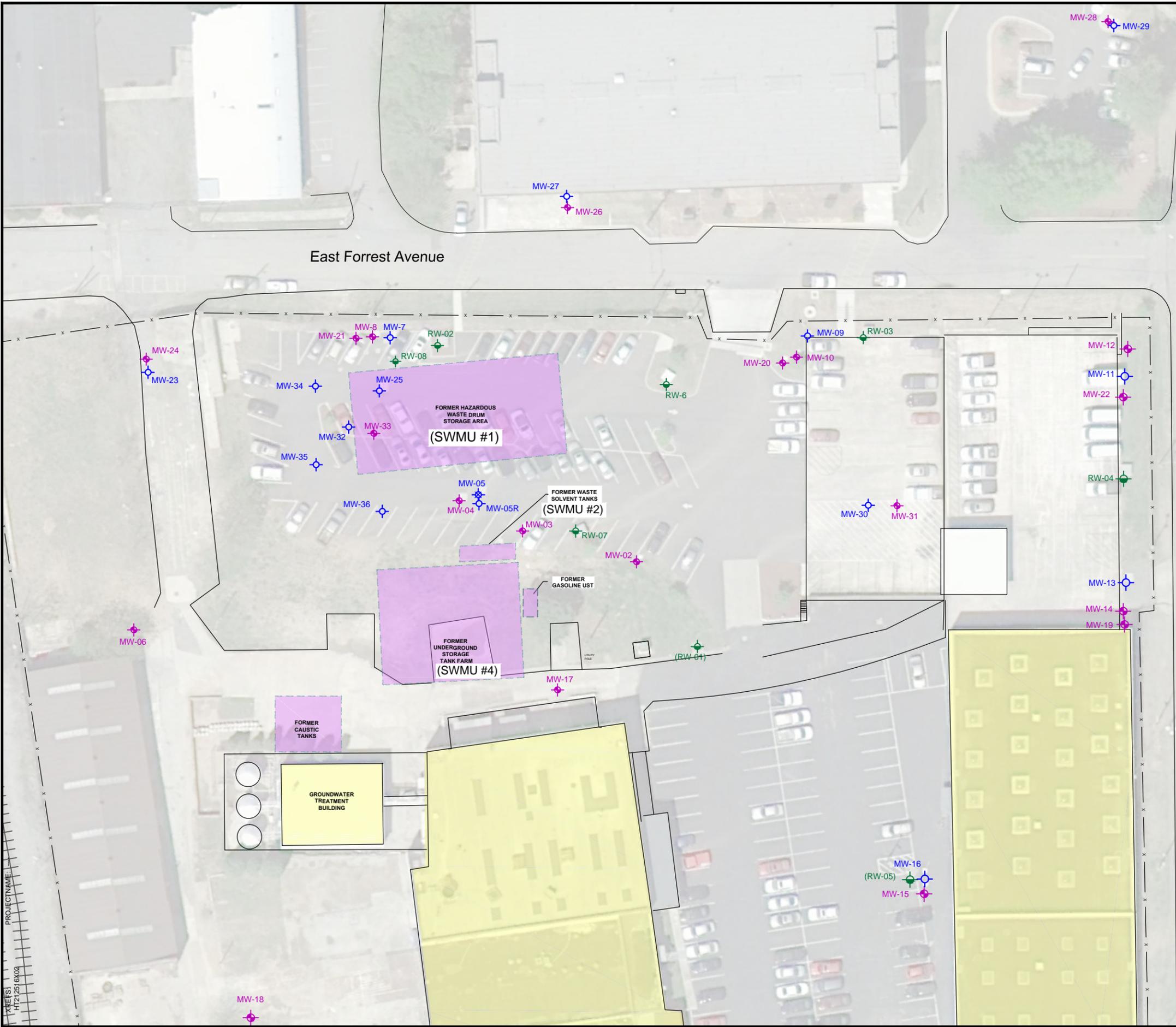
LAFARGE ROAD MARKING, INC.
2675 NORTH MARTIN STREET
EAST POINT, GEORGIA

SITE LOCATION



FIGURE
1

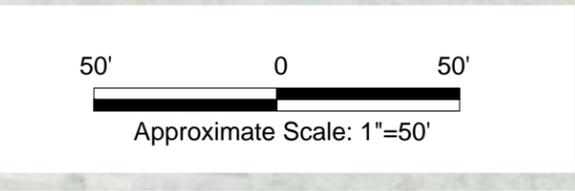
CITY: (Reqd) DIV(GROUP: (Reqd) DB: (Reqd) LD: (Opt) PIC: (Opt) PM: (Reqd) TM: (Opt) LYR: (Option) = "OFF" = "REF"
 G:\ENVCAD\IT\allahasee-FL\ACT\HT212446\0015\00002\HT212516801.dwg LAYOUT: FIG 2 SITE LAYOUT SAVED: 4/13/2015 3:50 PM ACADVER: 18.1S (LMS TECH) PAGES: 18.1S (LMS TECH) PLOTSTYLETABLE: PLTFULLCTB PLOTTED: 4/15/2015 3:57 PM BY: BERNDGEN, WENDY



LEGEND:

- SWMU SOLID WASTE MANAGEMENT UNIT
- (RW-1) RECOVERY WELL NOT IN SERVICE
- MONITORING WELL (SHALLOW)
- MONITORING WELL (DEEP)
- RECOVERY WELL
- DPE WELL
- ABANDONED OR DESTROYED
- FENCE
- RAILROAD TRACKS
- HISTORICAL FEATURES
- BUILDING/STRUCTURE

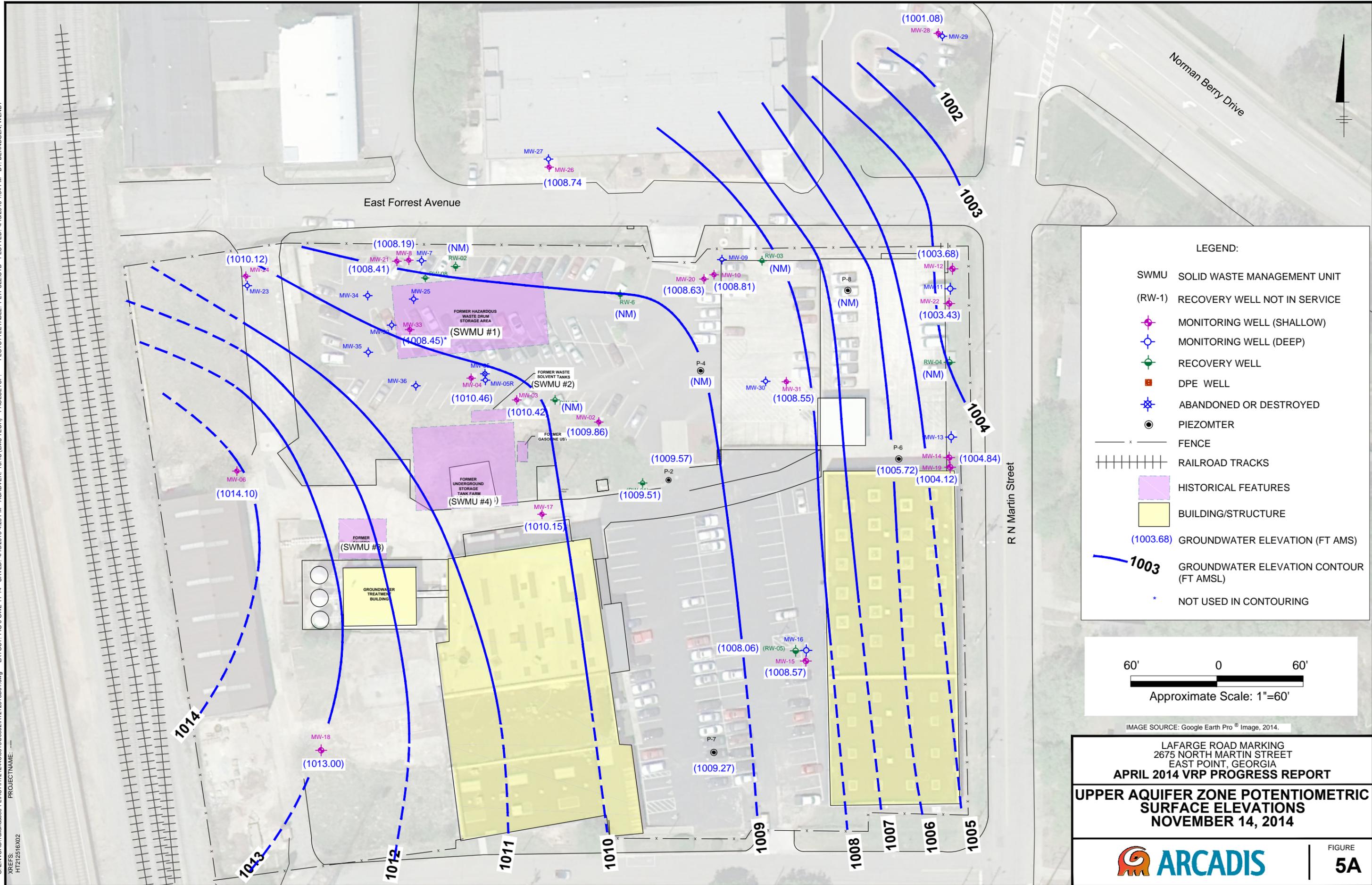
IMAGE SOURCE: Google Earth Pro® Image, 2014.



LAFARGE ROAD MARKING
 2675 NORTH MARTIN STREET
 EAST POINT, GEORGIA

SITE LAYOUT

CITY: (Ref) DIV: (Group) (Ref) DB: (Ref) LD: (Op) PIC: (Op) PM: (Ref) TM: (Op) LVR: (Op) (Off) REF: HT212516X02
 G:\ENVCAD\Tallal\classer-FLA\CTHT212516X02\HT212516X02.dwg LAYOUT: FIG 5 GWE 11-14. SAVED: 4/10/2015 4:23 PM. ACADVER: 18.1S (LMS TECH). PAGES: 18. PLOTSTYLETABLE: PLT\FULLCTB. PLOTTED: 4/13/2015 1:34 PM BY: BERNDGEN, WENDY
 XREFS: HT212516X02



LEGEND:

- SWMU SOLID WASTE MANAGEMENT UNIT
- (RW-1) RECOVERY WELL NOT IN SERVICE
- MONITORING WELL (SHALLOW)
- MONITORING WELL (DEEP)
- RECOVERY WELL
- DPE WELL
- ABANDONED OR DESTROYED
- PIEZOMETER
- FENCE
- RAILROAD TRACKS
- HISTORICAL FEATURES
- BUILDING/STRUCTURE
- (1003.68) GROUNDWATER ELEVATION (FT AMS)
- 1003 GROUNDWATER ELEVATION CONTOUR (FT AMSL)
- * NOT USED IN CONTOURING

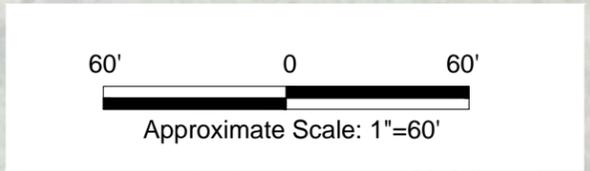
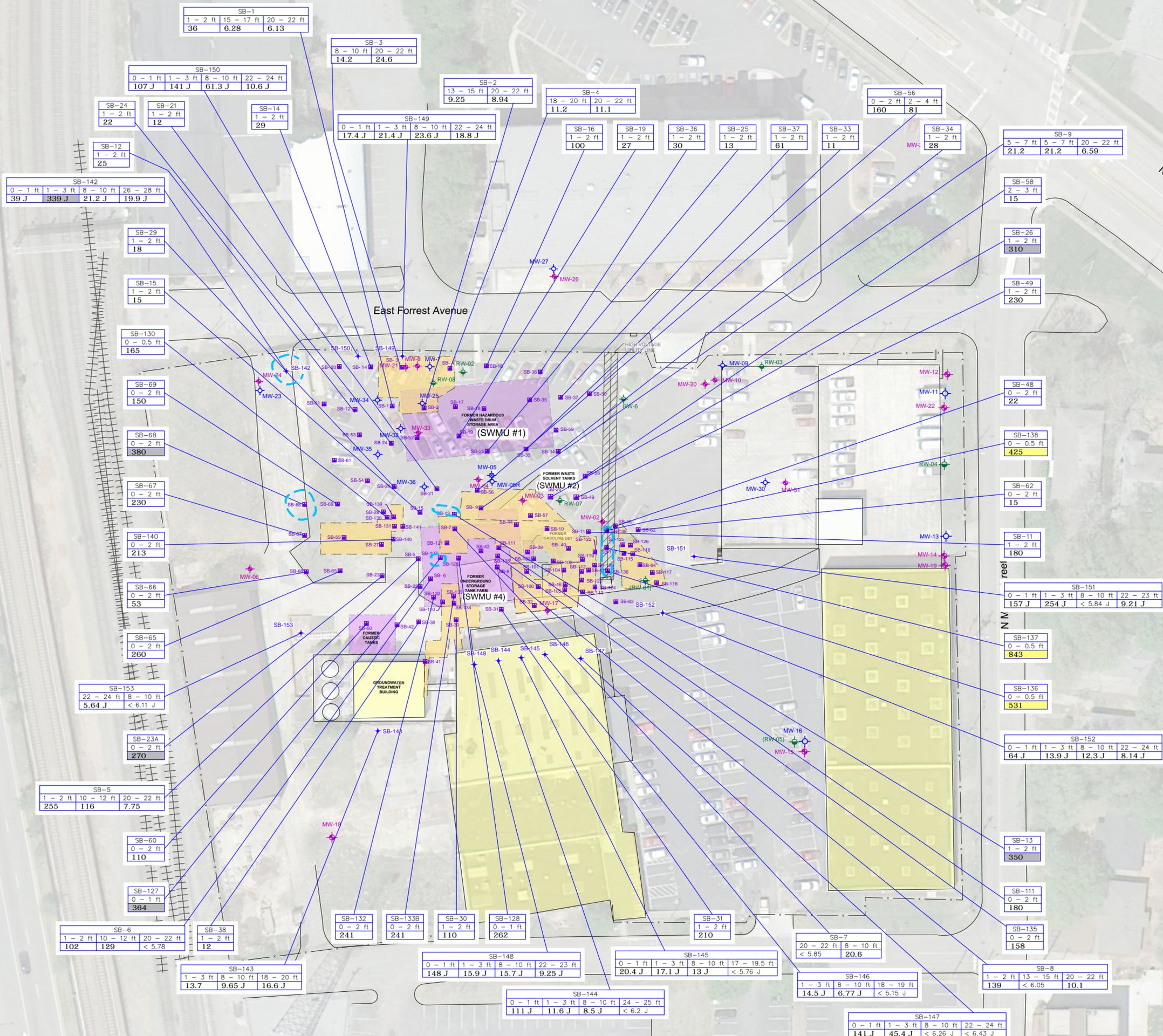


IMAGE SOURCE: Google Earth Pro® Image, 2014.
 LAFARGE ROAD MARKING
 2675 NORTH MARTIN STREET
 EAST POINT, GEORGIA
APRIL 2014 VRP PROGRESS REPORT
UPPER AQUIFER ZONE POTENTIOMETRIC SURFACE ELEVATIONS
NOVEMBER 14, 2014

CITY: (read) DIV: (read) PIC: (read) TM: (read) LVR: (CONV) - OFF: (REF)
 G:\EN\CAD\Drawings\ELACT\17242400\17242400.dwg LAYOUT: 7B LEAD DATED: 4/20/2015 11:23 AM
 ACADVER: 16.15 (LMS TECH) PAGES: 17 PLOTTED: 5/7/2015 1:35 PM BY: BERNDEN, WENDY
 XREFS: IMAGES: PROTECTNAME: HTZ: 125 16024427.dwg



	TYPE 2 RRS	TYPE 4 RRS
	(mg/kg)	(mg/kg)
Lead	270	400

NOTE: ONLY RESULTS GREATER THAN THE TYPE 1 RRS ARE SHOWN.

LEGEND:

- SWMU SOLID WASTE MANAGEMENT UNIT
- (RW-1) RECOVERY WELL NOT IN SERVICE
- MONITORING WELL (SHALLOW)
- MONITORING WELL (DEEP)
- RECOVERY WELL
- DPE WELL
- ABANDONED OR DESTROYED
- SOIL BORING LOCATION
- FENCE
- RAILROAD TRACKS
- HISTORICAL FEATURES
- BUILDING/STRUCTURE
- ESTIMATED EXTENT OF EXCAVATION
- (mg/kg) MILLIGRAMS PER KILOGRAM
- J ESTIMATED VALUE
- ND NOT DETECTED
- TYPE 2 RRS ISOCONCENTRATION CONTOUR

Scale: 50' 0 50'
 Approximate Scale: 1"=50'

IMAGE SOURCE: Google Earth Pro Image, 2014.

LAFARGE ROAD MARKING
 2675 NORTH MARTIN STREET
 EAST POINT, GEORGIA

LEAD SUMMARY

ARCADIS | **FIGURE 7B**

Figure 8
VRP Progress Milestone Schedule
2675 Lafarge Road Marking, Inc.
North Martin Street
East Point, Georgia

Requirement	Schedule/Due Date	Responsible/Comments
Deemed enrolled into the VRP as of August 6, 2014.	NA	
Progress Report #1.	First report due 60 days after the first full six-month period. Due April 30, 2015.	ARCADIS - Complete
Horizontal delineation. Horizontal delineation of property that where we have access as of August 6, 2014.	Within 12 months of the Effective Date. Due August 6, 2015.	ARCADIS – Pending, nearly complete
May 2015 Semiannual Sampling	May 2015	In-progress
Horizontal delineation. Horizontal delineation of property that where we do not have access as of August 6, 2014.	Within 24 months of the Effective Date. Due August 6, 2016.	ARCADIS – Pending
Progress Report #2.	October 30, 2015	ARCADIS
Off-site Properties. Add other off-site properties to the VRP.	Within 6 months of completing 3c. Due February 6, 2016.	ARCADIS - Pending
November 2015 Semiannual Sampling	November 2015	ARCADIS
Conceptual Site Model. Update conceptual site model to include vertical delineation, finalize VIRP, and provide final cost estimate.	30 months after the Effective Date of the Consent Order. Due February 6, 2016.	ARCADIS - Pending
Progress Report #3.	April 30, 2016	ARCADIS
Cost Estimate. Submit cost estimate prepared by the registered geologist.	60 days after the Effective Date of the Consent Order. Due Monday, October 6, 2014.	ARCADIS - Complete



Appendix A

Risk Reduction Standards



ARCADIS G&M of North Carolina, Inc.
801 Corporate Center Drive
Suite 300
Raleigh
North Carolina 27607
Tel 919 854 1282
Fax 919 854 5448

MEMO

To:
Chris Miller

Copies:

ARCADIS G&M of North Carolina,
Inc.

NC Engineering License # C-1869
NC Surveying License # C-1869

From:
Tamar Schlekot

Date:
March 10, 2015

ARCADIS Project No.:
HT212446.0014.00003

Subject:
Lafarge Road Marking, East Point, Georgia

This memo summarizes the approach used to derive Risk Reduction Standards (RRS) for soil and groundwater for the Lafarge Road Marking site in East Point, Georgia (the site). The derivation of the RRSs standard along with all calculations and inputs are presented in attached tables.

RRSs were calculated pursuant to methods outlined by the Georgia Department of Environmental Protection (GAEPD) Response and Remediation Program (Georgia Rule 391-3-19-.07). RRS were identified using values identified in Appendix I and III of Georgia Rule 391-3-19-.07, laboratory partial quantitation limits (PQLs), as well as calculated receptor and pathway specific health based goals (HBGs). HBGs were calculated consistent with methods in the United States Environmental Protection Agency (USEPA) Risk Assessment Guidance for Superfund, Volume I: Human Health Evaluation Manual, Part B (RAGS B).

The equations used for the calculations of HBGs are presented in Tables 1 for soil and 2 for groundwater. Toxicity information as well as chemical and physical parameters used in fate and transport models for all constituents were obtained from the latest sources available from USEPA consistent with GAEPD recommendation – specifically the USEPA Regional Screening Level Tables (USEPA 2015). Toxicity values are presented in Table 2 while chemical and physical parameters are presented in Table 3.

HBGs both adult and child resident receptors from exposure to groundwater used as a potable water supply were estimated in Tables 4 and 5, respectively. Then, Type 1 and Type 2 groundwater RRS were

identified in Table 6. HBGs both adult and child and resident receptors from direct exposure to soil were estimated in Tables 8 and 9, respectively. The Type 1 and Type 2 groundwater RRS were then used to estimate Soil Screening Levels (SSLs) for Migration to Groundwater. Tables 10 and 11 present the SSL calculations based on Type 1 and Type 2 RRSs, respectively. Finally, Type 1 and Type 2 soil RRS as well as the maximum of the Types 1 and 2 RRSs (the soil residential RRS) are identified in Table 12.

HBGs from exposure of a worker to groundwater used as a potable water supply were estimated in Table 13. Groundwater Types 3 and 4 RRSs are identified in Table 14. Finally, HBGs for a worker from direct exposure to soil were estimated in Table 15 and then used in Table 16 to estimate SSLs for migration to groundwater based on a non-residential scenario. Surface soil Type 3 and 4 RRSs are identified in Table 17. Finally, Table 18 summarizes all RRS for both soil and groundwater. Table 17 also identifies the residential and non-residential criteria for the site.

References

Georgia Rules. Response and Remediation Program. Risk Reduction Standards. 391-3-19-.07
<http://rules.sos.state.ga.us/docs/391/3/19/07.pdf> and
<http://rules.sos.state.ga.us/docs/391/3/19/Appendix%20I-IV.pdf>

United States Environmental Protection Agency (USEPA). 1991. Risk Assessment Guidance for Superfund, Volume I: Human Health Evaluation Manual. Part B, Development of Risk Based Preliminary Remediation Goals. Office of Emergency and Remedial Response, Washington, DC. OSWER Directive 9285.7-01B. December.

United States Environmental Protection Agency (USEPA). 2015. Regional Screening Levels (RSLs) Table. Available at: http://www.epa.gov/reg3hwmd/risk/human/rb-concentration_table/index.htm

Table A1
Health Based Goal Equations for Exposure to Soil
Voluntary Remediation Program - Progress Report
Lafarge Road Marking
East Point, Georgia

ROUTE-SPECIFIC HBGs:

Oral:

$$(HBG_o)_{C \text{ or } NC} = \frac{(TCR \text{ or } THI) \times BW \times (AT_C \text{ or } AT_{NC}) \times (10^6 \text{ mg/kg})}{IRs \times EF \times ED \times [SF_o \text{ or } (1/RfD_o)]}$$

Inhalation:

$$(HBG_i)_{C \text{ or } NC} = \frac{(TCR \text{ or } THI) \times (AT_C \text{ or } AT_{NC}) \times BW}{[(1/VF) + (1/PEF)] \times EF \times ED \times [SF_i \text{ or } (1/RfD_i)]}$$

where:

$$PEF = \frac{LS \times V \times DH}{A} \times \frac{(1000 \text{ g/kg}) \times (3,600 \text{ sec/hr})}{RPF \times (1-G) \times (Um/Ut)^3 \times F_x}$$

$$VF = \frac{LS \times V \times DH}{A} \times \frac{(3.14 \times \alpha \times T)^{1/2}}{2 \times Dei \times E \times Kas \times (10^{-3} \text{ kg/g})}$$

$$\alpha = \frac{Dei \times E}{E + [ps \times (1-E)/Kas]}$$

$$Dei = Di \times E^{0.33}$$

$$Kas = H/(RT \times Kd)$$

Cancer Effects HBG:

$$HBG_C = \frac{1}{\frac{1}{(HBG_o)_C} + \frac{1}{(HBG_i)_C}}$$

Non-Cancer Effects HBG:

$$HBG_{NC} = \frac{1}{\frac{1}{(HBG_o)_{NC}} + \frac{1}{(HBG_s)_{NC}}}$$

HBG = Minimum result of HBG_C and HBG_{NC}.

where:

- α Alpha; calculation intermediate (cm²/sec).
- A Contiguous area of contamination (20,250,000 cm²; USEPA [1991] default).
- AT_C Averaging time for cancer effects (25,550 days).
- AT_{NC} Averaging time for non-cancer effects (10,950 for adult residents; 2,190 days for child residents; 9,125 days for site workers); ED x 365 days/year.
- BW Body weight (70 kg for adult receptors; 15 kg for child resident).
- DH Diffusion Height (2 m, USEPA [1991] default)
- Dei Effective diffusivity (cm²/sec).
- Di Diffusivity in air (cm²/sec); constituent specific.
- E Total soil porosity (0.35 unitless, USEPA default).
- ED Exposure duration (30 years for adult resident; 6 years for child resident; 25 years for site worker).
- EF Exposure frequency (350 days/year for resident receptors; 250 days/year for site worker).
- Foc Fraction organic carbon in soil (0.002 unitless, USEPA default).
- Fx Function of Ut/Um (unitless); Fx = 0.18 x [8x³ + 12x] x exp(-x²), where x = 0.886 x (Ut/Um).
- G Fraction of vegetative cover (unitless) (0).

Table A1
Health Based Goal Equations for Exposure to Soil
Voluntary Remediation Program - Progress Report
Lafarge Road Marking
East Point, Georgia

H	Henry's Law Constant (atm·m ³ /mol); constituent specific.
HBG	Health Based Goal for soil (mg/L); minimum of the HBG _C (based on cancer effects) and the HBG _{NC} (based on non-cancer effects), which are based on the route-specific HBGs (HBG _O for the oral route and HBG _I for the inhalation route).
IR _{air}	Inhalation rate (15 m ³ /day for residents; 20 m ³ /day for site workers).
IR _{soil}	Incidental soil ingestion rate (114 mg/day for adult resident; 200 mg/day for child resident; 50 mg/day for site worker).
Kas	Soil-air partition coefficient (g soil/ cm ³ air).
Kd	Soil-water partition coefficient (cm ³ /g or mL/g); constituent specific. Kd is calculated as Foc × Koc.
Koc	Organic carbon partition coefficient (cm ³ /g or mL/g); constituent specific.
LS	Length of side of contaminated area (45 m, USEPA default).
PEF	Particulate emission factor (4.63 × 10 ⁹ m ³ /kg, USEPA default).
ps	True soil or particle density (2.65 g/cm ³ , USEPA default).
RfDi	Reference dose for inhalation (mg/kg/day).
RfDo	Reference dose for ingestion (mg/kg/day).
RPF	Respirable particle fraction (0.036 g/m ² /hr).
RT	Product of the ideal gas constant (8.206 × 10 ⁻⁵ atm·m ³ /mol/K) and the absolute temperature (K); RT = 0.02445 atm·m ³ /mol at 25°C (298 K).
SF	Cancer slope factor or oral (SF _O) or inhalation (SF _I) exposure (kg·day/mg).
T	Exposure interval (7.9 × 10 ⁸ sec, USEPA default).
TCR	Target cancer risk (unitless); results presented for TCR value of 10 ⁻⁵ (10 ⁻⁴ for Class C carcinogens).
THI	Target hazard index (unitless); results presented for THI value of 1.
Um	Wind speed, annual average (3.0 m/sec).
Ut	Equivalent threshold value of windspeed at 10 meters (12.8 m/sec).
V	Wind speed in the mixing zone (2.25 m/sec, USEPA default).
VF	Volatilization factor (m ³ /kg).

SAMPLE CALCULATIONS, Benzene, Industrial Exposure (Type 4).

$$\begin{aligned}
 x &= 0.886 \quad x \quad \frac{12.8 \text{ m/sec}}{3.0 \text{ m/sec}} = 3.780 \\
 Fx &= 0.18 [(8 \times 3.780^3) + (12 \times 3.78)] \times \exp(-(3.780^2)) = 5.36\text{E-}05 \\
 Dei &= 0.089 \quad x \text{ cm}^2/\text{sec} \times (0.35)^{0.33} = 6.29\text{E-}02 \text{ cm}^2/\text{sec} \\
 Kas &= \frac{5.55\text{E-}03 \text{ atm}\cdot\text{m}^3/\text{mol}}{5.55\text{E-}03 \text{ atm}\cdot\text{m}^3/\text{mol} \times 0.002 \times 145.8 \text{ cm}^3/\text{g}} = 7.78\text{E-}01 \text{ g/cm}^3 \\
 \alpha &= \frac{0.06294 \text{ cm}^2/\text{sec} \times 0.35}{0.35 + [2.65 \text{ g/cm}^3 \times (1 - 0.35)] / 7.78\text{E-}01 \text{ g/cm}^3} \\
 &= 8.60\text{E-}03 \text{ cm}^2/\text{sec} \\
 VF &= \frac{45 \text{ m} \times 2.25 \text{ m/s} \times 2 \text{ m}}{2.03 \times 10^7 \text{ cm}^2} \quad x \quad \frac{(3.14 \times 8.60\text{E-}03 \text{ cm}^2/\text{sec} \times 7.9 \times 10^8 \text{ sec})^{1/2}}{2 \times 6.29\text{E-}02 \text{ cm}^2/\text{sec} \times 0.35 \times 7.78\text{E-}01 \text{ g/cm}^3 \times 10^{-3} \text{ kg/g}} \\
 &= 1,343 \text{ m}^3/\text{kg}
 \end{aligned}$$

Table A1
Health Based Goal Equations for Exposure to Soil
Voluntary Remediation Program - Progress Report
Lafarge Road Marking
East Point, Georgia

CANCER EFFECTS:

Oral:

$$(RRS_o)_c = \frac{10^{-5} \times 70 \text{ kg} \times 25,550 \text{ days} \times 10^6 \text{ mg/kg}}{50 \text{ mg/day} \times 250 \text{ days/yr} \times 25 \text{ yrs} \times (0.055 \text{ kg-day/mg})}$$

$$= 1,040 \text{ mg/kg}$$

Inhalation:

$$(RRS_i)_c = \frac{10^{-5} \times 70 \text{ kg} \times 25,550 \text{ days}}{[(1/1,343 \text{ m}^3/\text{kg}) + (1/4.63 \times 10^9 \text{ m}^3/\text{kg})] \times 250 \text{ days/yr} \times 25 \text{ yrs} \times 20 \text{ m}^3/\text{day} \times 2.73\text{E-}02 \text{ kg-day/mg}}$$

$$= 7.0 \text{ mg/kg}$$

CANCER EFFECTS HBG:

$$RRS_c = \frac{1}{\frac{1}{1,040} + \frac{1}{7.0}} = 7 \text{ mg/kg}$$

NON-CANCER EFFECTS:

Oral:

$$(RRS_o)_{NC} = \frac{1 \times 70 \text{ kg} \times 9,125 \text{ days} \times 10^6 \text{ mg/kg}}{50 \text{ mg/day} \times 250 \text{ days/yr} \times 25 \text{ yrs} \times [1/0.004 \text{ mg/kg-day}]}$$

$$= 20,440 \text{ mg/kg}$$

Inhalation:

$$(RRS_i)_{NC} = \frac{1 \times 70 \text{ kg} \times 9,125 \text{ days}}{[(1/2,818 \text{ m}^3/\text{kg}) + (1/4.63 \times 10^9 \text{ m}^3/\text{kg})] \times 250 \text{ days/yr} \times 25 \text{ yrs} \times 20 \text{ m}^3/\text{day} \times (1/8.60\text{E-}03 \text{ kg-day/mg})}$$

$$= 1,109 \text{ mg/kg}$$

NON-CANCER EFFECTS HBG:

$$RRS_{NC} = \frac{1}{\frac{1}{20,440} + \frac{1}{1,109}} = 1,050 \text{ mg/kg}$$

$$RRS = \text{Minimum result of HBGc (7 mg/kg) and HBGnc (1050 mg/kg)} = 7 \text{ mg/kg}$$

Table A2
Health Based Goals Equations for Exposure to Groundwater
Voluntary Remediation Program - Progress Report
Lafarge Road Marking
East Point, Georgia

ROUTE-SPECIFIC HBGs:

Oral:

$$(HBG_o)_{C \text{ or } NC} = \frac{(TCR \text{ or } THI) \times BW \times (AT_C \text{ or } AT_{NC})}{IR_w \times EF \times ED \times [SF_o \text{ or } (1/RfD_o)]}$$

Inhalation:

$$(HBG_i)_{C \text{ or } NC} = \frac{(TCR \text{ or } THI) \times (AT_C \text{ or } AT_{NC}) \times BW}{K \times IR_a \times EF \times ED \times [SF_i \text{ or } (1/RfD_i)]}$$

Cancer Effects HBG:

$$HBG_C = \frac{1}{\frac{1}{(HBG_o)_C} + \frac{1}{(HBG_i)_C}}$$

Non-Cancer Effects HBG:

$$HBG_{NC} = \frac{1}{\frac{1}{(HBG_o)_{NC}} + \frac{1}{(HBG_i)_{NC}}}$$

HBG = Minimum result of HBG_C and HBG_{NC}.

where:

- AT_C Averaging time for cancer effects (25,550 days).
- AT_{NC} Averaging time for non-cancer effects (10,950 for adult residents; 2,190 days for child residents; 9,125 days for site workers); ED x 365 days/year.
- BW Body weight (70 kg for adult receptors; 15 kg for child resident).
- ED Exposure duration (30 years for adult resident; 6 years for child resident; 25 years for site worker).
- EF Exposure frequency (250 days/year).
- HBG Health Based Goal for soil (mg/L); minimum of the HBG_C (based on cancer effects) and the HBG_{NC} (based on non-cancer effects), which are based on the route-specific HBGs (HBG_o for the oral route and HBG_i for the inhalation route).
- IR_{air} Inhalation rate (15 m³/day for residents; 20 m³/day for site workers).
- IR_w Ingestion rate of drinking water (2 L/day for adult residents; 1 L/day for child residents and site workers) (USEPA 1997a).
- K Volatilization factor for volatile organic compounds (VOCs) from household tap water (0.5 L/m³) (USEPA 1991).
- RfDi Reference dose for inhalation (mg/kg/day).
- RfDo Reference dose for ingestion (mg/kg/day).
- TCR Target cancer risk (unitless); results presented for TCR value of 10⁻⁵ (10⁻⁴ for Class C carcinogens).
- THI Target hazard index (unitless); results presented for THI value of 1.

Table A2
Health Based Goals Equations for Exposure to Groundwater
Voluntary Remediation Program - Progress Report
Lafarge Road Marking
East Point, Georgia

SAMPLE CALCULATIONS, Benzene, Industrial Exposure (Type 4).

CANCER EFFECTS:

Oral:

$$\begin{aligned} (\text{HBG}_O)_C &= \frac{10^{-5} \times 70 \text{ kg} \times 25,550 \text{ days}}{1 \text{ L/day} \times 250 \text{ days/yr} \times 25 \text{ yrs} \times (0.055 \text{ kg-day/mg})} \\ &= 0.0520 \text{ mg/L} \end{aligned}$$

Inhalation:

$$\begin{aligned} (\text{HBG}_I)_C &= \frac{10^{-5} \times 70 \text{ kg} \times 25,550 \text{ days}}{0.5 \text{ L/m}^3 \times 250 \text{ days/yr} \times 25 \text{ yrs} \times 20 \text{ m}^3/\text{day} \times 0.0273 \text{ kg-day/mg}} \\ &= 0.010 \text{ mg/L} \end{aligned}$$

CANCER EFFECTS HBG:

$$\text{HBG}_C = \frac{1}{\frac{1}{0.0520} + \frac{1}{0.01048}} = 0.0087 \text{ mg/L}$$

NON-CANCER EFFECTS:

Oral:

$$\begin{aligned} (\text{HBG}_O)_{NC} &= \frac{1 \times 70 \text{ kg} \times 9,125 \text{ days}}{1 \text{ L/day} \times 250 \text{ days/yr} \times 25 \text{ yrs} \times [1/0.004 \text{ mg/kg-day}]} \\ &= 0.4 \text{ mg/L} \end{aligned}$$

Inhalation:

$$\begin{aligned} (\text{HBG}_I)_{NC} &= \frac{1 \times 70 \text{ kg} \times 9,125 \text{ days}}{0.5 \text{ L/m}^3 \times 250 \text{ days/yr} \times 25 \text{ yrs} \times 20 \text{ m}^3/\text{day} \times 1/0.00857142857142857 \text{ kg-day/mg}} \\ &= 0.09 \text{ mg/L} \end{aligned}$$

NON-CANCER EFFECTS HBG:

$$\text{HBG}_{NC} = \frac{1}{\frac{1}{0.4} + \frac{1}{0.09}} = 0.072 \text{ mg/L}$$

$$\text{HBG} = \text{Minimum result of HBG}_C (0.0087 \text{ mg/L}) \text{ and HBG}_{NC} (0.072 \text{ mg/L}) = 0.0087 \text{ mg/L}$$

Table A3
Toxicity Values
Voluntary Remediation Program - Progress Report
Lafarge Road Marking
East Point, Georgia

Detected Regulated Substance	Cancer Effects						Noncancer Effects					
	Cancer Slope Factors (CSF)					Cancer Weight of Evidence	Target Cancer Risk (TCR) [a]	Reference Doses (RfD)				
	CSFo		IUR		CSFi			RfDo	RfC		RfDi	
	Oral	ref		ref	Inhalation	Oral	ref		Inhalation	ref		
(kg-day/mg)		(mg/m ³) ⁻¹		(kg-day/mg)	(mg/kg/day)		(mg/m ³)	(mg/kg/day)				
Volatile Organics												
Acetone	NA		NA		NA	D	NC	9.0E-01	I	3.1E+01	8.9E+00	A
Benzene	5.5E-02	I	7.8E-06		2.7E-02	I	A	1.0E-05	I	3.0E-02	8.6E-03	I
Carbon Tetrachloride	7.0E-02	I	6.0E-06		2.1E-02	I	L	1.0E-05	I	1.0E-01	2.9E-02	I
Chlorobenzene	NA		NA		NA	D	NC	2.0E-02	I	5.0E-02	1.4E-02	P
Chloroform	3.1E-02	C	2.3E-05		8.1E-02	I	B2	1.0E-05	I	9.8E-02	2.8E-02	A
Cyclohexane	NA		NA		NA	I	NC	NA		6.0E+00	1.7E+00	I
1,1-Dichloroethene	NA		NA		NA	C	NC	5.0E-02	I	2.0E-01	5.7E-02	I
cis-1,2-Dichloroethene	NA		NA		NA	D	NC	2.0E-03	I	NA	NA	
trans-1,2-Dichloroethene	NA		NA		NA	NA	NC	2.0E-02	I	NA	NA	
Ethylbenzene	1.1E-02	C	2.5E-06		8.8E-03	C	D	1.0E-05	I	1.0E+00	2.9E-01	I
2-Butanone	NA		NA		NA	D	NC	6.0E-01	I	5.0E+00	1.4E+00	I
4-Methyl-2-pentanone	NA		NA		NA	NA	NC	8.0E-02	H	3.0E+00	8.6E-01	I
Methylene Chloride	2.0E-03	I	1.0E-08		3.5E-05	I	B2	1.0E-05	I	6.0E-01	1.7E-01	I
Tetrachloroethene	2.1E-03	I	2.6E-07		9.1E-04	I	L	1.0E-05	I	4.0E-02	1.1E-02	I
Toluene	NA		NA		NA	D	NC	8.0E-02	I	5.0E+00	1.4E+00	I
1,1,1-Trichloroethane	NA		NA		NA	D	NC	2.0E+00	I	5.0E+00	1.4E+00	I
1,1,2-Trichloroethane	5.7E-02	I	1.6E-05		5.6E-02	I	C	1.0E-04	I	2.0E-04	5.7E-05	X
Trichloroethene	4.6E-02	I	4.1E-06		1.4E-02	I	H	1.0E-05	I	2.0E-03	5.7E-04	I
Trichlorofluoromethane	NA		NA		NA	NA	NC	3.0E-01	I	7.0E-01	2.0E-01	H
Vinyl Chloride	7.2E-01	I	1.5E-02		5.3E+01	I	A	1.0E-05	I	1.0E-01	2.9E-02	I
o-Xylene	NA		NA		NA	D	NC	2.0E-01	S	1.0E-01	2.9E-02	S
m,p-Xylene	NA		NA		NA	D	NC	2.0E-01		1.0E-01	2.9E-02	I
Xylenes (total)	NA		NA		NA	D	NC	2.0E-01	I	1.0E-01	2.9E-02	I
Semivolatile Organics												
2-Methylphenol	NA		NA		NA	C	NC	5.0E-02	I	6.0E-01	1.7E-01	C
4-Methylphenol	NA		NA		NA	NA	NC	1.0E-01	A	6.0E-01	1.7E-01	C
Inorganics												
Barium	NA		NA		NA	D	NC	2.0E-01	I	5.0E-04	1.4E-04	H
Copper	NA		NA		NA	D	NC	4.0E-02	H	NA	NA	
Lead	NA		NA		NA	B2	NC	NA		NA	NA	

References [ref]:

- A Agency for Toxic Substances Disease Registry (ATSDR) (ATSDR 2015).
- C CalEPA, Toxicity Criteria database (CalEPA 2015).
- H USEPA, Health Effects Summary Table (HEAST; USEPA 2015c).
- I USEPA, Integrated Risk Information System (IRIS; USEPA 2015b).
- P Provisional Peer Reviewed Toxicity Values (PPRTV) as referenced in the USEPA Regional Screening Level Table (USEPA 2015d).
- S USEPA Regional Screening Level Table User Guide (Section 5; 2015a).

Table A3
Toxicity Values
Voluntary Remediation Program - Progress Report
Lafarge Road Marking
East Point, Georgia

[a] TCR was set at 1×10^{-5} for constituents with carcinogenic toxicity values; except the TCR for class C carcinogens, it was set at 1×10^{-4} . USEPA cancer weight-of-evidence categories are as follows:

The most up to date classification is presented for each constituent.

- 1986 Group A: Human Carcinogen (sufficient evidence of carcinogenicity in humans)
Group B: Probable Human Carcinogen
B1 - limited evidence of carcinogenicity in humans
B2 - sufficient evidence of carcinogenicity in animals with inadequate or lack of evidence in humans
Group C: Possible Human Carcinogen (limited evidence of carcinogenicity in animals and inadequate or lack of human data)
Group D: Not Classifiable as to Human Carcinogenicity (inadequate or no evidence)
Group E: Evidence of Noncarcinogenicity for Humans (no evidence of carcinogenicity in adequate studies)
- 2005 H: Carcinogenic to humans.
L: Likely to be carcinogenic to humans.

kg	Kilogram	NA	Not Available
mg	meter	NC	Not a carcinogen
mg	Milligram		

Table A4
Physical-Chemical Properties of the Detected Soil Constituents
Voluntary Remediation Program - Progress Report
Lafarge Road Marking
East Point, Georgia

Detected Regulated Substance	Henry's Law Constant (atm-m ³ /mol) (25 °C)	Diffusivity in Air (cm ² /sec)	Effective Diffusivity (cm ² /sec) (calc)	Molecular Weight (g/mole)	Koc or Kd (cm ³ /g)	Kas (g/cm ³) (calc)	alpha (cm ² /sec) (calc)	Volatilization Factor (VF) (m ³ /kg) (calc)
Volatile Organics								
Acetone	3.50E-05	1.06E-01	7.49E-02	58.08	2.36E+00	3.03E-01	4.34E-03	2.07E+03
Benzene	5.55E-03	8.95E-02	6.33E-02	78.11	1.46E+02	7.78E-01	8.65E-03	1.34E+03
Carbon Tetrachloride	2.76E-02	5.71E-02	4.04E-02	153.82	4.39E+01	1.29E+01	2.92E-02	2.34E+02
Chlorobenzene	3.11E-03	7.21E-02	5.10E-02	112.56	2.34E+02	2.72E-01	2.67E-03	2.65E+03
Chloroform	3.67E-03	7.69E-02	5.44E-02	119.38	3.18E+01	2.36E+00	1.76E-02	7.36E+02
Cyclohexane	1.50E-01	8.00E-02	5.66E-02	84.16	1.46E+02	2.10E+01	4.58E-02	1.28E+02
1,1-Dichloroethene	2.61E-02	8.63E-02	6.10E-02	96.94	3.18E+01	1.68E+01	4.72E-02	1.51E+02
cis-1,2-Dichloroethene	4.08E-03	8.84E-02	6.25E-02	96.94	3.96E+01	2.11E+00	1.87E-02	7.40E+02
trans-1,2-Dichloroethene	4.08E-03	8.76E-02	6.20E-02	96.94	3.96E+01	2.11E+00	1.86E-02	7.43E+02
Ethylbenzene	7.88E-03	6.85E-02	4.84E-02	106.17	4.46E+02	3.61E-01	3.31E-03	2.34E+03
2-Butanone	5.69E-05	9.14E-02	6.47E-02	72.11	4.51E+00	2.58E-01	3.22E-03	2.42E+03
4-Methyl-2-pentanone	1.38E-04	6.98E-02	4.93E-02	100.16	1.26E+01	2.24E-01	2.15E-03	2.98E+03
Methylene Chloride	3.25E-03	9.99E-02	7.07E-02	84.93	2.17E+01	3.06E+00	2.71E-02	5.42E+02
Tetrachloroethene	1.77E-02	5.05E-02	3.57E-02	165.83	9.49E+01	3.81E+00	1.56E-02	6.53E+02
Toluene	6.64E-03	7.78E-02	5.50E-02	92.14	2.34E+02	5.81E-01	5.81E-03	1.70E+03
1,1,1-Trichloroethane	1.72E-02	6.48E-02	4.58E-02	133.41	4.39E+01	8.01E+00	2.84E-02	3.26E+02
1,1,2-Trichloroethane	8.24E-04	6.69E-02	4.73E-02	133.41	6.07E+01	2.78E-01	2.53E-03	2.72E+03
Trichloroethene	9.85E-03	6.87E-02	4.86E-02	131.39	6.07E+01	3.32E+00	1.96E-02	6.18E+02
Trichlorofluoromethane	9.70E-02	6.54E-02	4.62E-02	137.37	4.39E+01	4.52E+01	4.17E-02	6.96E+01
Vinyl Chloride	2.78E-02	1.07E-01	7.58E-02	62.5	2.17E+01	2.62E+01	6.38E-02	9.07E+01
o-Xylene	5.18E-03	6.89E-02	4.87E-02	106.17	3.83E+02	2.77E-01	2.59E-03	2.69E+03
m,p-Xylene	7.18E-03	6.84E-02	4.83E-02	106.17	3.75E+02	3.91E-01	3.56E-03	2.25E+03
Xylenes (total)	5.18E-03	8.47E-02	5.99E-02	106.17	3.83E+02	2.77E-01	3.19E-03	2.42E+03
Semivolatile Organics								
2-Methylphenol	1.20E-06	7.28E-02	5.15E-02	108.14	3.07E+02	8.01E-05	8.38E-07	NV
4-Methylphenol	1.00E-06	7.24E-02	5.12E-02	108.14	3.00E+02	6.81E-05	7.08E-07	NV
Inorganics								
Barium				137.33	4.10E+01			NV
Copper				63.55	3.50E+01			NV
Lead				207.2	9.00E+02			NV

Parameters were obtained from USEPA Regional Screening Level (RSL) Table (USEPA 2015a).

calc Calculated.
Foc Fraction organic carbon (0.002 default). Kd Soil / water partition coefficient.
Koc Organic carbon partition coefficient. NV Not volatile.

Table A5
Health Based Goals for Potential Groundwater Ingestion Based on Residential Adult Exposure
Voluntary Remediation Program - Progress Report
Lafarge Road Marking
East Point, Georgia

Detected Regulated Substance	CANCER EFFECTS			NON-CANCER EFFECTS			Groundwater HBGres_a (mg/L)	
	Route-Specific HBG (mg/L)		HBGc (mg/L)	Route-Specific HBG (mg/L)		HBGnc (mg/L)		
	Oral	Inhalation		Oral	Inhalation			
Volatile Organics								
Acetone	NA	NA	NA	3.3E+01	8.6E+01	2.4E+01	2.4E+01	N
Benzene	1.5E-02	8.3E-03	5.4E-03	1.5E-01	8.3E-02	5.3E-02	5.4E-03	C
Carbon Tetrachloride	1.2E-02	1.1E-02	5.7E-03	1.5E-01	2.8E-01	9.6E-02	5.7E-03	C
Chlorobenzene	NA	NA	NA	7.3E-01	1.4E-01	1.2E-01	1.2E-01	N
Chloroform	2.7E-02	2.8E-03	2.6E-03	3.7E-01	2.7E-01	1.6E-01	2.6E-03	C
Cyclohexane	NA	NA	NA	NA	1.7E+01	1.7E+01	1.7E+01	N
1,1-Dichloroethene	NA	NA	NA	1.8E+00	5.6E-01	4.3E-01	4.3E-01	N
cis-1,2-Dichloroethene	NA	NA	NA	7.3E-02	NA	7.3E-02	7.3E-02	N
trans-1,2-Dichloroethene	NA	NA	NA	7.3E-01	NA	7.3E-01	7.3E-01	N
Ethylbenzene	7.7E-02	2.6E-02	1.9E-02	3.7E+00	2.8E+00	1.6E+00	1.9E-02	C
2-Butanone	NA	NA	NA	2.2E+01	1.4E+01	8.5E+00	8.5E+00	N
4-Methyl-2-pentanone	NA	NA	NA	2.9E+00	8.3E+00	2.2E+00	2.2E+00	N
Methylene Chloride	4.3E-01	6.5E+00	4.0E-01	2.2E-01	1.7E+00	1.9E-01	1.9E-01	N
Tetrachloroethene	4.1E-01	2.5E-01	1.5E-01	2.2E-01	1.1E-01	7.4E-02	7.4E-02	N
Toluene	NA	NA	NA	2.9E+00	1.4E+01	2.4E+00	2.4E+00	N
1,1,1-Trichloroethane	NA	NA	NA	7.3E+01	1.4E+01	1.2E+01	1.2E+01	N
1,1,2-Trichloroethane	1.5E-01	4.1E-02	3.2E-02	1.5E-01	5.6E-04	5.5E-04	5.5E-04	N
Trichloroethene	1.9E-02	1.6E-02	8.5E-03	1.8E-02	5.6E-03	4.3E-03	4.3E-03	N
Trichlorofluoromethane	NA	NA	NA	1.1E+01	1.9E+00	1.7E+00	1.7E+00	N
Vinyl Chloride *	1.4E+00	3.0E-02	2.9E-02	1.1E-01	2.8E-01	7.9E-02	2.9E-02	C
o-Xylene	NA	NA	NA	7.3E+00	2.8E-01	2.7E-01	2.7E-01	N
m,p-Xylene	NA	NA	NA	7.3E+00	2.8E-01	2.7E-01	2.7E-01	N
Xylenes (total)	NA	NA	NA	7.3E+00	2.8E-01	2.7E-01	2.7E-01	N
Semivolatile Organics								
2-Methylphenol	NA	NV	NA	1.8E+00	NV	1.8E+00	1.8E+00	N
4-Methylphenol	NA	NV	NA	3.7E+00	NV	3.7E+00	3.7E+00	N
Inorganics								
Barium	NA	NV	NA	7.3E+00	NV	7.3E+00	7.3E+00	N
Copper	NA	NV	NA	1.5E+00	NV	1.5E+00	1.5E+00	N
Lead	NA	NV	NA	NA	NV	NA	NA	N

mg/L Milligrams per liter.
NA Not available/applicable.
NC Not a suspected carcinogen.

HBGres_a health based goal for an adult resident (mg/L); for each constituent, the minimum of the HBGc and the HBGnc.
HBGnc (non-cancer) is calculated using a target hazard index (THI) of 1.

HBGc (cancer) is calculated using the target cancer risk (TCR) indicated on Table A3.

* Toxicity value are for child and adult respectively.

Table A6
Health Based Goals for Potential Groundwater Ingestion Based on Residential Child Exposure
Voluntary Remediation Program - Progress Report
Lafarge Road Marking
East Point, Georgia

Detected Regulated Substance	CANCER EFFECTS			NON-CANCER EFFECTS			Groundwater HBGres_c (mg/L)	
	Route-Specific HBG (mg/L)		HBGc (mg/L)	Route-Specific HBG (mg/L)		HBGnc (mg/L)		
	Oral	Inhalation		Oral	Inhalation			
Volatile Organics								
Acetone	NA	NA	NA	1.4E+01	1.8E+01	8.0E+00	8.0E+00	N
Benzene	3.3E-02	8.9E-03	7.0E-03	6.3E-02	1.8E-02	1.4E-02	7.0E-03	C
Carbon Tetrachloride	2.6E-02	1.2E-02	8.0E-03	6.3E-02	6.0E-02	3.1E-02	8.0E-03	C
Chlorobenzene	NA	NA	NA	3.1E-01	3.0E-02	2.7E-02	2.7E-02	N
Chloroform	5.9E-02	3.0E-03	2.9E-03	1.6E-01	5.8E-02	4.3E-02	2.9E-03	C
Cyclohexane	NA	NA	NA	NA	3.6E+00	3.6E+00	3.6E+00	N
1,1-Dichloroethene	NA	NA	NA	7.8E-01	1.2E-01	1.0E-01	1.0E-01	N
cis-1,2-Dichloroethene	NA	NA	NA	3.1E-02	NA	3.1E-02	3.1E-02	N
trans-1,2-Dichloroethene	NA	NA	NA	3.1E-01	NA	3.1E-01	3.1E-01	N
Ethylbenzene	1.7E-01	2.8E-02	2.4E-02	1.6E+00	6.0E-01	4.3E-01	2.4E-02	C
2-Butanone	NA	NA	NA	9.4E+00	3.0E+00	2.3E+00	2.3E+00	N
4-Methyl-2-pentanone	NA	NA	NA	1.3E+00	1.8E+00	7.4E-01	7.4E-01	N
Methylene Chloride	9.1E-01	7.0E+00	8.1E-01	9.4E-02	3.6E-01	7.4E-02	7.4E-02	N
Tetrachloroethene	8.7E-01	2.7E-01	2.0E-01	9.4E-02	2.4E-02	1.9E-02	1.9E-02	N
Toluene	NA	NA	NA	1.3E+00	3.0E+00	8.8E-01	8.8E-01	N
1,1,1-Trichloroethane	NA	NA	NA	3.1E+01	3.0E+00	2.7E+00	2.7E+00	N
1,1,2-Trichloroethane	3.2E-01	4.3E-02	3.8E-02	6.3E-02	1.2E-04	1.2E-04	1.2E-04	N
Trichloroethene	4.0E-02	1.7E-02	1.2E-02	7.8E-03	1.2E-03	1.0E-03	1.0E-03	N
Trichlorofluoromethane	NA	NA	NA	4.7E+00	4.2E-01	3.8E-01	3.8E-01	N
Vinyl Chloride	2.5E-03	4.6E-06	4.6E-06	4.7E-02	6.0E-02	2.6E-02	4.6E-06	C
o-Xylene	NA	NA	NA	3.1E+00	6.0E-02	5.8E-02	5.8E-02	N
m,p-Xylene	NA	NA	NA	3.1E+00	6.0E-02	5.8E-02	5.8E-02	N
Xylenes (total)	NA	NA	NA	3.1E+00	6.0E-02	5.8E-02	5.8E-02	N
Semivolatile Organics								
2-Methylphenol	NA	NV	NA	7.8E-01	NV	7.8E-01	7.8E-01	N
4-Methylphenol	NA	NV	NA	1.6E+00	NV	1.6E+00	1.6E+00	N
Inorganics								
Barium	NA	NV	NA	3.1E+00	NV	3.1E+00	3.1E+00	N
Copper	NA	NV	NA	6.3E-01	NV	6.3E-01	6.3E-01	N
Lead	NA	NV	NA	NA	NV	NA	NA	

mg/L Milligrams per liter.
 NA Not available/applicable.
 NC Not a suspected carcinogen.

HBGres_c health based goal for a child resident (mg/L); for each constituent, the minimum of the HBGc and the HBGnc.
 HBGnc (non-cancer) is calculated using a target hazard index (THI) of 1.
 HBGc (cancer) is calculated using the target cancer risk (TCR) indicated on Table A3.

Table A7
Groundwater Type 1 and 2 Risk Reduction Standards
Voluntary Remediation Program - Progress Report
Lafarge Road Marking
East Point, Georgia

Detected Regulated Substance	Groundwater Type 1		Residential Health Based		Groundwater Type 2	
	RRS [a] (mg/L)	Source	Goal (HBGres) [b] (mg/L)	Source	RRS [c] (mg/L)	Source
Volatile Organics						
Acetone	4	A-III	8	HBGres_c	8	HBGres_c
Benzene	0.005	A-III	0.0054	HBGres_a	0.0054	HBGres_a
Carbon Tetrachloride	0.005	A-III	0.0057	HBGres_a	0.0057	HBGres_a
Chlorobenzene	0.1	A-III	0.027	HBGres_c	0.1	Type 1
Chloroform	0.08	A-III	0.0026	HBGres_a	0.08	Type 1
Cyclohexane	0.01	DL	3.6	HBGres_c	3.6	HBGres_c
1,1-Dichloroethene	0.007	A-III	0.1	HBGres_c	0.1	HBGres_c
cis-1,2-Dichloroethene	0.07	A-III	0.031	HBGres_c	0.07	Type 1
trans-1,2-Dichloroethene	0.1	A-III	0.31	HBGres_c	0.31	HBGres_c
Ethylbenzene	0.7	A-III	0.019	HBGres_a	0.7	Type 1
2-Butanone	2	A-III	2.3	HBGres_c	2.3	HBGres_c
4-Methyl-2-pentanone	2	A-III	0.74	HBGres_c	2	Type 1
Methylene Chloride	0.005	A-III	0.074	HBGres_c	0.074	HBGres_c
Tetrachloroethene	0.005	A-III	0.019	HBGres_c	0.019	HBGres_c
Toluene	1	A-III	0.88	HBGres_c	1	Type 1
1,1,1-Trichloroethane	0.2	A-III	2.7	HBGres_c	2.7	HBGres_c
1,1,2-Trichloroethane	0.005	A-III	0.00012	HBGres_c	0.005	Type 1
Trichloroethene	0.005	A-III	0.001	HBGres_c	0.005	Type 1
Trichlorofluoromethane	2	A-III	0.38	HBGres_c	2	Type 1
Vinyl Chloride	0.002	A-III	0.000046	HBGres_c	0.002	Type 1
o-Xylene	0.001	DL	0.058	HBGres_c	0.058	HBGres_c
m,p-Xylene	0.002	DL	0.058	HBGres_c	0.058	HBGres_c
Xylenes (total)	10	A-III	0.058	HBGres_c	10	Type 1
Semivolatile Organics						
2-Methylphenol	0.01	DL	0.78	HBGres_c	0.78	HBGres_c
4-Methylphenol	0.01	DL	1.6	HBGres_c	1.6	HBGres_c
Inorganics						
Barium	2	A-III	3.1	HBGres_c	3.1	HBGres_c
Copper	1.3	A-III	0.63	HBGres_c	1.3	Type 1
Lead	0.015	A-III	NA		0.015	Type 1

-- Not appropriate.

mg/L Milligrams per liter.

NA Not available/applicable.

RRS Risk Reduction Standard.

[a] Source of Type 1 RRS:
A-III: Appendix III.

DL: Detection limit.

[b] The minimum health based goal for adult and child residents from Table A5 and Table A6.

[c] Source of Type 2 RRS:

HBGres_a: Calculated site-specific residential health based goal based on adult exposure.

HBGres_c: Calculated site-specific residential health based goal based on child exposure.

Type 1 RRS.

Table A8
Health Based Goals for Potential Adult Residential Exposure to Soil
Voluntary Remediation Program - Progress Report
Lafarge Road Marking
East Point, Georgia

Detected Regulated Substance	CANCER EFFECTS			NON-CANCER EFFECTS			Soil HBGres_a (mg/kg)	
	Route-Specific HBG (mg/kg)		HBGc (mg/kg)	Route-Specific HBG (mg/L)		HBGnc (mg/kg)		
	Oral	Inhalation		Oral	Inhalation			
Volatile Organics								
Acetone	NA	NA	NA	5.8E+05	8.9E+04	7.7E+04	7.7E+04	N
Benzene	2.7E+02	5.6E+00	5.5E+00	2.6E+03	5.6E+01	5.5E+01	5.5E+00	C
Carbon Tetrachloride	2.1E+02	1.3E+00	1.3E+00	2.6E+03	3.3E+01	3.2E+01	1.3E+00	C
Chlorobenzene	NA	NA	NA	1.3E+04	1.8E+02	1.8E+02	1.8E+02	N
Chloroform	4.8E+02	1.0E+00	1.0E+00	6.4E+03	1.0E+02	9.9E+01	1.0E+00	C
Cyclohexane	NA	NA	NA	NA	1.1E+03	1.1E+03	1.1E+03	N
1,1-Dichloroethene	NA	NA	NA	3.2E+04	4.2E+01	4.2E+01	4.2E+01	N
cis-1,2-Dichloroethene	NA	NA	NA	1.3E+03	NA	1.3E+03	1.3E+03	N
trans-1,2-Dichloroethene	NA	NA	NA	1.3E+04	NA	1.3E+04	1.3E+04	N
Ethylbenzene	1.4E+03	3.0E+01	3.0E+01	6.4E+04	3.3E+03	3.1E+03	3.0E+01	C
2-Butanone	NA	NA	NA	3.8E+05	1.7E+04	1.6E+04	1.6E+04	N
4-Methyl-2-pentanone	NA	NA	NA	5.1E+04	1.2E+04	1.0E+04	1.0E+04	N
Methylene Chloride	7.5E+03	1.8E+03	1.4E+03	3.8E+03	4.5E+02	4.0E+02	4.0E+02	N
Tetrachloroethene	7.1E+03	8.1E+01	8.1E+01	3.8E+03	3.6E+01	3.6E+01	3.6E+01	N
Toluene	NA	NA	NA	5.1E+04	1.2E+04	9.6E+03	9.6E+03	N
1,1,1-Trichloroethane	NA	NA	NA	1.3E+06	2.3E+03	2.3E+03	2.3E+03	N
1,1,2-Trichloroethane	2.6E+03	5.5E+01	5.4E+01	2.6E+03	7.6E-01	7.6E-01	7.6E-01	N
Trichloroethene	3.2E+02	4.9E+00	4.8E+00	3.2E+02	1.7E+00	1.7E+00	1.7E+00	N
Trichlorofluoromethane	NA	NA	NA	1.9E+05	6.8E+01	6.8E+01	6.8E+01	N
Vinyl Chloride	2.1E+01	2.0E-04	2.0E-04	1.9E+03	1.3E+01	1.3E+01	2.0E-04	C
o-Xylene	NA	NA	NA	1.3E+05	3.7E+02	3.7E+02	3.7E+02	N
m,p-Xylene	NA	NA	NA	1.3E+05	3.1E+02	3.1E+02	3.1E+02	N
Xylenes (total)	NA	NA	NA	1.3E+05	3.4E+02	3.4E+02	3.4E+02	N
Semivolatile Organics								
2-Methylphenol	NA	NA	NA	3.2E+04	3.9E+09	3.2E+04	3.2E+04	N
4-Methylphenol	NA	NA	NA	6.4E+04	3.9E+09	6.4E+04	6.4E+04	N
Inorganics								
Barium	NA	NA	NA	1.3E+05	3.2E+06	1.2E+05	1.2E+05	N
Copper	NA	NA	NA	2.6E+04	NA	2.6E+04	2.6E+04	N
Lead	NA	NA	NA	NA	NA	NA	NA	

mg/kg Milligram per kilogram.
NA Not available/applicable.
NC Not a suspected carcinogen.

HBGres_a Health based goal for an adult resident (mg/kg); for each constituent, the minimum of the HBGc and the HBGnc.
HBGnc (non-cancer) is calculated using a target hazard index (THI) of 1.
HBGc (cancer) is calculated using the target cancer risk (TCR) indicated on Table A3.

Table A9
Health Based Goals for Potential Child Residential Exposure to Soil
Voluntary Remediation Program - Progress Report
Lafarge Road Marking
East Point, Georgia

Detected Regulated Substance	CANCER EFFECTS			NON-CANCER EFFECTS			Soil HBGres_c (mg/kg)
	Route-Specific HBG (mg/kg)		HBGc (mg/kg)	Route-Specific HBG (mg/L)		HBGnc Goal (mg/kg)	
	Oral	Inhalation		Oral	Inhalation		
Volatile Organics							
Acetone	NA	NA	NA	7.0E+04	1.9E+04	1.5E+04	1.5E+04 N
Benzene	1.7E+02	6.0E+00	5.8E+00	3.1E+02	1.2E+01	1.2E+01	5.8E+00 C
Carbon Tetrachloride	1.3E+02	1.4E+00	1.3E+00	3.1E+02	7.0E+00	6.8E+00	1.3E+00 C
Chlorobenzene	NA	NA	NA	1.6E+03	4.0E+01	3.9E+01	3.9E+01 N
Chloroform	2.9E+02	1.1E+00	1.1E+00	7.8E+02	2.2E+01	2.1E+01	1.1E+00 C
Cyclohexane	NA	NA	NA	NA	2.3E+02	2.3E+02	2.3E+02 N
1,1-Dichloroethene	NA	NA	NA	3.9E+03	9.0E+00	9.0E+00	9.0E+00 N
cis-1,2-Dichloroethene	NA	NA	NA	1.6E+02	NA	1.6E+02	1.6E+02 N
trans-1,2-Dichloroethene	NA	NA	NA	1.6E+03	NA	1.6E+03	1.6E+03 N
Ethylbenzene	8.3E+02	3.3E+01	3.1E+01	7.8E+03	7.0E+02	6.4E+02	3.1E+01 C
2-Butanone	NA	NA	NA	4.7E+04	3.6E+03	3.3E+03	3.3E+03 N
4-Methyl-2-pentanone	NA	NA	NA	6.3E+03	2.7E+03	1.9E+03	1.9E+03 N
Methylene Chloride	4.6E+03	1.9E+03	1.3E+03	4.7E+02	9.7E+01	8.0E+01	8.0E+01 N
Tetrachloroethene	4.3E+03	8.7E+01	8.6E+01	4.7E+02	7.8E+00	7.7E+00	7.7E+00 N
Toluene	NA	NA	NA	6.3E+03	2.5E+03	1.8E+03	1.8E+03 N
1,1,1-Trichloroethane	NA	NA	NA	1.6E+05	4.9E+02	4.8E+02	4.8E+02 N
1,1,2-Trichloroethane	1.6E+03	5.9E+01	5.7E+01	3.1E+02	1.6E-01	1.6E-01	1.6E-01 N
Trichloroethene	2.0E+02	5.2E+00	5.1E+00	3.9E+01	3.7E-01	3.6E-01	3.6E-01 N
Trichlorofluoromethane	NA	NA	NA	2.3E+04	1.5E+01	1.4E+01	1.4E+01 N
Vinyl Chloride	1.3E+01	2.1E-04	2.1E-04	2.3E+02	2.7E+00	2.7E+00	2.1E-04 C
o-Xylene	NA	NA	NA	1.6E+04	8.0E+01	8.0E+01	8.0E+01 N
m,p-Xylene	NA	NA	NA	1.6E+04	6.7E+01	6.7E+01	6.7E+01 N
Xylenes (total)	NA	NA	NA	1.6E+04	7.2E+01	7.2E+01	7.2E+01 N
Semivolatile Organics							
2-Methylphenol	NA	NA	NA	3.9E+03	8.3E+08	3.9E+03	3.9E+03 N
4-Methylphenol	NA	NA	NA	7.8E+03	8.3E+08	7.8E+03	7.8E+03 N
Inorganics							
Barium	NA	NA	NA	1.6E+04	6.9E+05	1.5E+04	1.5E+04 N
Copper	NA	NA	NA	3.1E+03	NA	3.1E+03	3.1E+03 N
Lead	NA	NA	NA	NA	NA	NA	NA

mg/kg Milligram per kilogram.
NA Not available/applicable.
NC Not a suspected carcinogen.

HBGres_c Health based goal for an child resident (mg/kg); for each constituent, the minimum of the HBGc and the HBGnc.
HBGnc (non-cancer) is calculated using a target hazard index (THI) of 1.
HBGc (cancer) is calculated using the target cancer risk (TCR) indicated on Table A3.

Table A10
Soil Screening Levels for Migration to Groundwater Based on Type 1 Groundwater Risk Reduction Standards
Voluntary Remediation Program - Progress Report
Lafarge Road Marking
East Point, Georgia

Detected Regulated Substance	Type 1 GW RRS [a] (mg/L)	C _w (mg/L)	K _{oc} (L/kg)	Henry's Law Constant (HLC) (atm·m ³ /mol)	H' (unitless)	SSL_Type 1 GW (mg/kg)
Volatile Organics						
Acetone	4.0E+00	8.0E+01	2.4E+00	3.5E-05	1.4E-03	1.6E+01
Benzene	5.0E-03	1.0E-01	1.5E+02	5.6E-03	2.3E-01	5.1E-02
Carbon Tetrachloride	5.0E-03	1.0E-01	4.4E+01	2.8E-02	1.1E+00	3.9E-02
Chlorobenzene	1.0E-01	2.0E+00	2.3E+02	3.1E-03	1.3E-01	1.4E+00
Chloroform	8.0E-02	1.6E+00	3.2E+01	3.7E-03	1.5E-01	4.4E-01
Cyclohexane	1.0E-02	2.0E-01	1.5E+02	1.5E-01	6.1E+00	2.0E-01
1,1-Dichloroethene	7.0E-03	1.4E-01	3.2E+01	2.6E-02	1.1E+00	5.0E-02
cis-1,2-Dichloroethene	7.0E-02	1.4E+00	4.0E+01	4.1E-03	1.7E-01	4.1E-01
trans-1,2-Dichloroethene	1.0E-01	2.0E+00	4.0E+01	4.1E-03	1.7E-01	5.9E-01
Ethylbenzene	7.0E-01	1.4E+01	4.5E+02	7.9E-03	3.2E-01	1.6E+01
2-Butanone	2.0E+00	4.0E+01	4.5E+00	5.7E-05	2.3E-03	8.4E+00
4-Methyl-2-pentanone	2.0E+00	4.0E+01	1.3E+01	1.4E-04	5.6E-03	9.0E+00
Methylene Chloride	5.0E-03	1.0E-01	2.2E+01	3.3E-03	1.3E-01	2.5E-02
Tetrachloroethene	5.0E-03	1.0E-01	9.5E+01	1.8E-02	7.2E-01	4.5E-02
Toluene	1.0E+00	2.0E+01	2.3E+02	6.6E-03	2.7E-01	1.4E+01
1,1,1-Trichloroethane	2.0E-01	4.0E+00	4.4E+01	1.7E-02	7.0E-01	1.4E+00
1,1,2-Trichloroethane	5.0E-03	1.0E-01	6.1E+01	8.2E-04	3.4E-02	3.2E-02
Trichloroethene	5.0E-03	1.0E-01	6.1E+01	9.9E-03	4.0E-01	3.6E-02
Trichlorofluoromethane	2.0E+00	4.0E+01	4.4E+01	9.7E-02	4.0E+00	2.5E+01
Vinyl Chloride	2.0E-03	4.0E-02	2.2E+01	2.8E-02	1.1E+00	1.4E-02
o-Xylene	1.0E-03	2.0E-02	3.8E+02	5.2E-03	2.1E-01	2.0E-02
m,p-Xylene	2.0E-03	4.0E-02	3.8E+02	7.2E-03	2.9E-01	3.9E-02
Xylenes (total)	1.0E+01	2.0E+02	3.8E+02	5.2E-03	2.1E-01	2.0E+02
Semivolatile Organics						
2-Methylphenol	1.0E-02	2.0E-01	3.1E+02	1.2E-06	4.9E-05	1.6E-01
4-Methylphenol	1.0E-02	2.0E-01	3.0E+02	1.0E-06	4.1E-05	1.6E-01
Inorganics						
Barium	2.0E+00	4.0E+01	4.1E+01			1.6E+03
Copper	1.3E+00	2.6E+01	3.5E+01			9.2E+02
Lead	1.5E-02	3.0E-01	9.0E+02			2.7E+02

Table A11
Soil Screening Levels for Migration to Groundwater Based on Type 2 Groundwater Risk Reduction Standards
Voluntary Remediation Program - Progress Report
Lafarge Road Marking
East Point, Georgia

Detected Regulated Substance	Type 2 GW RRS [a] (mg/L)	C _w (mg/L)	K _{oc} (L/kg)	Henry's Law Constant (HLC) (atm·m ³ /mol)	H' (unitless)	SSL_Type 2 GW (mg/kg)
Volatile Organics						
Acetone	8.0E+00	1.6E+02	2.4E+00	3.5E-05	1.4E-03	3.3E+01
Benzene	5.4E-03	1.1E-01	1.5E+02	5.6E-03	2.3E-01	5.5E-02
Carbon Tetrachloride	5.7E-03	1.1E-01	4.4E+01	2.8E-02	1.1E+00	4.4E-02
Chlorobenzene	1.0E-01	2.0E+00	2.3E+02	3.1E-03	1.3E-01	1.4E+00
Chloroform	8.0E-02	1.6E+00	3.2E+01	3.7E-03	1.5E-01	4.4E-01
Cyclohexane	3.6E+00	7.2E+01	1.5E+02	1.5E-01	6.1E+00	7.4E+01
1,1-Dichloroethene	1.0E-01	2.0E+00	3.2E+01	2.6E-02	1.1E+00	7.1E-01
cis-1,2-Dichloroethene	7.0E-02	1.4E+00	4.0E+01	4.1E-03	1.7E-01	4.1E-01
trans-1,2-Dichloroethene	3.1E-01	6.2E+00	4.0E+01	4.1E-03	1.7E-01	1.8E+00
Ethylbenzene	7.0E-01	1.4E+01	4.5E+02	7.9E-03	3.2E-01	1.6E+01
2-Butanone	2.3E+00	4.6E+01	4.5E+00	5.7E-05	2.3E-03	9.6E+00
4-Methyl-2-pentanone	2.0E+00	4.0E+01	1.3E+01	1.4E-04	5.6E-03	9.0E+00
Methylene Chloride	7.4E-02	1.5E+00	2.2E+01	3.3E-03	1.3E-01	3.8E-01
Tetrachloroethene	1.9E-02	3.8E-01	9.5E+01	1.8E-02	7.2E-01	1.7E-01
Toluene	1.0E+00	2.0E+01	2.3E+02	6.6E-03	2.7E-01	1.4E+01
1,1,1-Trichloroethane	2.7E+00	5.4E+01	4.4E+01	1.7E-02	7.0E-01	1.9E+01
1,1,2-Trichloroethane	5.0E-03	1.0E-01	6.1E+01	8.2E-04	3.4E-02	3.2E-02
Trichloroethene	5.0E-03	1.0E-01	6.1E+01	9.9E-03	4.0E-01	3.6E-02
Trichlorofluoromethane	2.0E+00	4.0E+01	4.4E+01	9.7E-02	4.0E+00	2.5E+01
Vinyl Chloride	2.0E-03	4.0E-02	2.2E+01	2.8E-02	1.1E+00	1.4E-02
o-Xylene	5.8E-02	1.2E+00	3.8E+02	5.2E-03	2.1E-01	1.1E+00
m,p-Xylene	5.8E-02	1.2E+00	3.8E+02	7.2E-03	2.9E-01	1.1E+00
Xylenes (total)	1.0E+01	2.0E+02	3.8E+02	5.2E-03	2.1E-01	2.0E+02
Semivolatile Organics						
2-Methylphenol	7.8E-01	1.6E+01	3.1E+02	1.2E-06	4.9E-05	1.3E+01
4-Methylphenol	1.6E+00	3.2E+01	3.0E+02	1.0E-06	4.1E-05	2.6E+01
Inorganics						
Barium	3.1E+00	6.2E+01	4.1E+01			2.6E+03
Copper	1.3E+00	2.6E+01	3.5E+01			9.2E+02
Lead	1.5E-02	3.0E-01	9.0E+02			2.7E+02

Table A11
Soil Screening Levels for Migration to Groundwater Based on Type 2 Groundwater Risk Reduction Standards
Voluntary Remediation Program - Progress Report
Lafarge Road Marking
East Point, Georgia

Detected Regulated Substance	Type 2 GW RRS [a] (mg/L)	C _w (mg/L)	K _{oc} (L/kg)	Henry's Law Constant (HLC) (atm-m ³ /mol)	H' (unitless)	SSL_Type 2 GW (mg/kg)
---------------------------------	--------------------------------	--------------------------	---------------------------	--	------------------	--------------------------

Equation 10 (USEPA Soil Screening Guidance, 1996):
 Soil Screening Level (SSL; mg/kg) =

$$C_w \times \left\{ K_d + \left[\frac{\theta_w + \theta_a H'}{\rho_b} \right] \right\}$$

C _w	Type 2 GW RRS x DAF (mg/L).	=	constituent specific
DAF	Dilution attenuation factor.	=	20
K _d	soil-water partition coefficient (L/kg).	=	K _{oc} x f _{oc}
K _{oc}	soil organic carbon/water partition coefficient (L/kg).	=	constituent specific
f _{oc}	fraction organic carbon in soil (g/g).	=	0.002
θ _w	water-filled soil porosity (L _{water} /L _{soil}).	=	0.3
θ _a	air-filled soil porosity (L _{air} /L _{soil}).	=	n - θ _w = 0.134
ρ _b	dry soil bulk density (kg/L).	=	1.5
n	soil porosity (L _{pore} /L _{soil}).	=	1 - (ρ _v /ρ _s) = 0.43
ρ _s	soil particle density (kg/L).	=	2.65
HLC	Henry's Law Constant (atm-m ³ /mol).	=	constituent specific
H'	dimensionless Henry's Law Constant (unitless)	=	HLC x 41

[a] Type 2 Groundwater Risk Reduction Standard (GW RRS) from Table A7.

Boxing indicates maximum soil concentration greater than screening level based on partitioning.

atm-m³/mole Atmosphere - cubic meter per mole.

L = Liter.

kg = Kilogram.

mg = Milligrams.

Table A12
Soil Type 1 and 2 Risk Reduction Standards
Voluntary Remediation Program - Progress Report
Lafarge Road Marking
East Point, Georgia

Detected Regulated Substance	Soil Type 1 RRS [a]		HBGres [b]		SSL for Type 1 GW [c]	SSL for Type 2 GW [d]	Soil Type 2 RRS [e]	
	(mg/kg)	source	(mg/kg)	source	(mg/kg)	(mg/kg)	(mg/kg)	source
Volatile Organics								
Acetone	400	GW	2.E+04	HBGres_c	16.4	32.8	400	Type 1
Benzene	0.5	GW	6.E+00	HBGres_c	0.1	0.1	0.5	Type 1
Carbon Tetrachloride	0.5	GW	1.E+00	HBGres_c	0.0	0.0	0.5	Type 1
Chlorobenzene	10	GW	4.E+01	HBGres_c	1.4	1.4	10	Type 1
Chloroform	1	HBGc-Res	1.E+00	HBGres_c	0.4	0.4	1	Type 1
Cyclohexane	20	A-I	2.E+02	HBGres_c	0.2	73.6	74	SSL
1,1-Dichloroethene	0.7	GW	9	HBGres_c	0.0	0.7	0.71	SSL
cis-1,2-Dichloroethene	7	GW	160	HBGres_c	0.4	0.4	7	Type 1
trans-1,2-Dichloroethene	10	GW	1,600	HBGres_c	0.6	1.8	10	Type 1
Ethylbenzene	30	HBGc-Res	30	HBGres_c	15.7	15.7	30	Type 1
2-Butanone	200	GW	3,300	HBGres_c	8.4	9.6	200	Type 1
4-Methyl-2-pentanone	200	GW	1,900	HBGres_c	9.0	9.0	200	Type 1
Methylene Chloride	0.5	GW	80	HBGres_c	0.0	0.4	0.5	Type 1
Tetrachloroethene	0.5	GW	8	HBGres_c	0.0	0.2	0.5	Type 1
Toluene	100	GW	1,800	HBGres_c	13.8	13.8	100	Type 1
1,1,1-Trichloroethane	20	GW	480	HBGres_c	1.4	18.8	20	Type 1
1,1,2-Trichloroethane	0.5	A-I	0	HBGres_c	0.0	0.0	0.5	Type 1
Trichloroethene	0.5	GW	0	HBGres_c	0.0	0.0	0.5	Type 1
Trichlorofluoromethane	68	HBGnc-Res	14	HBGres_c	25.3	25.3	68	Type 1
Vinyl Chloride	0.0002	HBGc-Res	0	HBGres_c	0.0	0.0	0.0002	Type 1
o-Xylene	20	A-I	80	HBGres_c	0.0	1.1	20	Type 1
m,p-Xylene	20	A-I	67	HBGres_c	0.0	1.1	20	Type 1
Xylenes (total)	340	HBGnc-Res	72	HBGres_c	196.8	196.8	340	Type 1
Semivolatile Organics								
2-Methylphenol	3.8	A-I	3,900	HBGres_c	0.2	12.7	13	SSL
4-Methylphenol	3.8	A-I	7,800	HBGres_c	0.2	25.6	26	SSL
Inorganics								
Barium	1000	A-III	15,000	HBGres_c	1648.0	2554.4	2550	SSL
Copper	100	A-III	3,100	HBGres_c	915.2	915.2	915	SSL
Lead	75	A-III	NA		270.1	270.1	270	SSL

Table A12
Soil Type 1 and 2 Risk Reduction Standards
Voluntary Remediation Program - Progress Report
Lafarge Road Marking
East Point, Georgia

Detected Regulated Substance	Soil Type 1 RRS [a] (mg/kg) source	HBGres [b] (mg/kg) source	SSL for Type 1 GW [c] (mg/kg)	SSL for Type 2 GW [d] (mg/kg)	Soil Type 2 RRS [e] (mg/kg) source
--	Not appropriate.				
mg/kg	Milligrams per kilogram.				
NA	Not available/applicable.				
RRS	Risk Reduction Standard.				
[a]	Source of Type 1 RRS: A-I: Appendix I notification requirement (NC) ("App I NC"). A-III: Appendix III. DL: Detection limit. GW: Appendix III Table 1 times 100.				
[b]	The minimum health based goal for adult and child residents from Table A8 and Table A9.				
[c]	From Table A10.				
[d]	From Table A11.				
[e]	Source of Type 2 RRS: HBGres_a: Calculated site-specific residential health based goal based on adult exposure. HBGres_c: Calculated site-specific residential health based goal based on child exposure. SSL: Soil screening level for Migration to Groundwater (minimum for that of type 1 and 2)				

Table A13
Health Based Goals for Potential Groundwater Ingestion Based on Industrial Exposure
Voluntary Remediation Program - Progress Report
Lafarge Road Marking
East Point, Georgia

Detected Regulated Substance	CANCER EFFECTS			NON-CANCER EFFECTS			Groundwater HBGind (mg/L)
	Route-Specific HBG (mg/L)		HBGc (mg/L)	Route-Specific HBG (mg/L)		HBGnc (mg/L)	
	Oral	Inhalation		Oral	Inhalation		
Volatile Organics							
Acetone	NA	NA	NA	9.2E+01	9.1E+01	4.6E+01	4.6E+01
Benzene	5.2E-02	1.0E-02	8.7E-03	4.1E-01	8.8E-02	7.2E-02	8.7E-03
Carbon Tetrachloride	4.1E-02	1.4E-02	1.0E-02	4.1E-01	2.9E-01	1.7E-01	1.0E-02
Chlorobenzene	NA	NA	NA	2.0E+00	1.5E-01	1.4E-01	1.4E-01
Chloroform	9.2E-02	3.6E-03	3.4E-03	1.0E+00	2.9E-01	2.2E-01	3.4E-03
Cyclohexane	NA	NA	NA	NA	1.8E+01	1.8E+01	1.8E+01
1,1-Dichloroethene	NA	NA	NA	5.1E+00	5.8E-01	5.2E-01	5.2E-01
cis-1,2-Dichloroethene	NA	NA	NA	2.0E-01	NA	2.0E-01	2.0E-01
trans-1,2-Dichloroethene	NA	NA	NA	2.0E+00	NA	2.0E+00	2.0E+00
Ethylbenzene	2.6E-01	3.3E-02	2.9E-02	1.0E+01	2.9E+00	2.3E+00	2.9E-02
2-Butanone	NA	NA	NA	6.1E+01	1.5E+01	1.2E+01	1.2E+01
4-Methyl-2-pentanone	NA	NA	NA	8.2E+00	8.8E+00	4.2E+00	4.2E+00
Methylene Chloride	1.4E+00	8.2E+00	1.2E+00	6.1E-01	1.8E+00	4.5E-01	4.5E-01
Tetrachloroethene	1.4E+00	3.1E-01	2.6E-01	6.1E-01	1.2E-01	9.8E-02	9.8E-02
Toluene	NA	NA	NA	8.2E+00	1.5E+01	5.2E+00	5.2E+00
1,1,1-Trichloroethane	NA	NA	NA	2.0E+02	1.5E+01	1.4E+01	1.4E+01
1,1,2-Trichloroethane	5.0E-01	NV	5.0E-01	4.1E-01	NV	4.1E-01	4.1E-01
Trichloroethene	6.2E-02	2.0E-02	1.5E-02	5.1E-02	5.8E-03	5.2E-03	5.2E-03
Trichlorofluoromethane	NA	NA	NA	3.1E+01	2.0E+00	1.9E+00	1.9E+00
Vinyl Chloride	4.0E-03	5.5E-06	5.4E-06	3.1E-01	2.9E-01	1.5E-01	5.4E-06
o-Xylene	NA	NA	NA	2.0E+01	2.9E-01	2.9E-01	2.9E-01
m,p-Xylene	NA	NA	NA	2.0E+01	2.9E-01	2.9E-01	2.9E-01
Xylenes (total)	NA	NA	NA	2.0E+01	2.9E-01	2.9E-01	2.9E-01
Semivolatile Organics							
2-Methylphenol	NA	NV	NA	5.1E+00	NV	5.1E+00	5.1E+00
4-Methylphenol	NA	NV	NA	1.0E+01	NV	1.0E+01	1.0E+01
Inorganics							
Barium	NA	NV	NA	2.0E+01	NV	2.0E+01	2.0E+01
Copper	NA	NV	NA	4.1E+00	NV	4.1E+00	4.1E+00
Lead	NA	NV	NA	NA	NV	NA	NA

mg/L Milligrams per liter.
NA Not available/applicable.
NC Not a suspected carcinogen.

HBGind Health based goal for an industrial worker (mg/L); for each constituent, the minimum of the HBGc and the HBGnc.
HBGnc (non-cancer) is calculated using a target hazard index (THI) of 1.
HBGc (cancer) is calculated using the target cancer risk (TCR) indicated on Table A3.

Table A14
Groundwater Types 3 and 4 Risk Reduction Standards
Voluntary Remediation Program - Progress Report
Lafarge Road Marking
East Point, Georgia

Detected Regulated Substance	Type 3 RRS [a] (mg/L)		HBGind [b] (mg/L)	Type 4 RRS [c] (mg/L)	Type 4 Standard
Volatile Organics					
Acetone	4	A-III	46	46	HBGind
Benzene	0.005	A-III	0.0087	0.0087	HBGind
Carbon Tetrachloride	0.005	A-III	0.01	0.01	HBGind
Chlorobenzene	0.1	A-III	0.14	0.14	HBGind
Chloroform	0.08	A-III	0.0034	0.08	Type 3
Cyclohexane	0.01	DL	18	18	HBGind
1,1-Dichloroethene	0.007	A-III	0.52	0.52	HBGind
cis-1,2-Dichloroethene	0.07	A-III	0.2	0.2	HBGind
trans-1,2-Dichloroethene	0.1	A-III	2	2	HBGind
Ethylbenzene	0.7	A-III	0.029	0.7	Type 3
2-Butanone	2	A-III	12	12	HBGind
4-Methyl-2-pentanone	2	A-III	4.2	4.2	HBGind
Methylene Chloride	0.005	A-III	0.45	0.45	HBGind
Tetrachloroethene	0.005	A-III	0.098	0.098	HBGind
Toluene	1	A-III	5.2	5.2	HBGind
1,1,1-Trichloroethane	0.2	A-III	14	14	HBGind
1,1,2-Trichloroethane	0.005	A-III	0.41	0.41	HBGind
Trichloroethene	0.005	A-III	0.0052	0.0052	HBGind
Trichlorofluoromethane	2	A-III	1.9	2	Type 3
Vinyl Chloride	0.002	A-III	0.0000054	0.002	Type 3
o-Xylene	0.001	DL	0.29	0.29	HBGind
m,p-Xylene	0.002	DL	0.29	0.29	HBGind
Xylenes (total)	10	A-III	0.29	10	Type 3
Semivolatile Organics					
2-Methylphenol	0.01	DL	5.1	5.1	HBGind
4-Methylphenol	0.01	DL	10	10	HBGind
Inorganics					
Barium	2	A-III	20	20	HBGind
Copper	1.3	A-III	4.1	4.1	HBGind
Lead	0.015	A-III	NA	0.015	Type 3

mg/L

Milligrams per liter.

NA

Not available/applicable.

[a]

Source of Type 3 RRS:

A-III: Appendix III.

DL: Detection limit.

[b]

Health based goal for an industrial worker (HBGind); from Table A13.

[c]

Source of Type 4 RRS:

HBGind.

Type 3 RRS.

Table A15
Health Based Goals for Potential Commercial/Industrial Worker Exposure to Soil
Voluntary Remediation Program - Progress Report
Lafarge Road Marking
East Point, Georgia

Detected Regulated Substance	CANCER EFFECTS			NON-CANCER EFFECTS			Soil HBGind Goal (mg/kg)	
	Route-Specific HBG (mg/kg)		HBGc (mg/kg)	Route-Specific HBG (mg/L)		HBGnc (mg/kg)		
	Oral	Inhalation		Oral	Inhalation			
Volatile Organics								
Acetone	NA	NA	NA	1.8E+06	9.4E+04	8.9E+04	8.9E+04	N
Benzene	1.0E+03	7.0E+00	7.0E+00	8.2E+03	5.9E+01	5.8E+01	7.0E+00	C
Bromodichloromethane	9.2E+02	1.3E+00	1.3E+00	4.1E+04	NA	4.1E+04	1.3E+00	C
Bromoform	7.2E+03	1.2E+02	1.2E+02	4.1E+04	NA	4.1E+04	1.2E+02	C
Bromomethane	NA	NA	NA	2.9E+03	1.4E+00	1.4E+00	1.4E+00	N
Carbon Disulfide	NA	NA	NA	2.0E+05	1.7E+02	1.7E+02	1.7E+02	N
Carbon Tetrachloride	8.2E+02	1.6E+00	1.6E+00	8.2E+03	3.4E+01	3.4E+01	1.6E+00	C
Chlorobenzene	NA	NA	NA	4.1E+04	1.9E+02	1.9E+02	1.9E+02	N
Chloroform	1.8E+03	1.3E+00	1.3E+00	2.0E+04	1.1E+02	1.0E+02	1.3E+00	C
Chloromethane	NA	NA	NA	NA	2.0E+01	2.0E+01	2.0E+01	N
Cyclohexane	NA	NA	NA	NA	1.1E+03	1.1E+03	1.1E+03	N
1,2-Dibromo-3-chloropropane	7.2E+01	9.0E-02	9.0E-02	4.1E+02	3.8E+00	3.8E+00	9.0E-02	C
Dibromochloromethane	6.8E+03	4.1E+01	4.0E+01	4.1E+04	NA	4.1E+04	4.0E+01	C
1,2-Dibromoethane	2.9E+01	2.1E-01	2.1E-01	1.8E+04	4.0E+01	4.0E+01	2.1E-01	C
1,2-Dichlorobenzene	NA	NA	NA	1.8E+05	1.5E+03	1.4E+03	1.4E+03	N
1,4-Dichlorobenzene	1.1E+05	1.6E+02	1.6E+02	1.4E+05	5.2E+03	5.0E+03	1.6E+02	C
1,3-Dichlorobenzene	NA	NA	NA	NA	NA	NA	NA	
Dichlorodifluoromethane	NA	NA	NA	4.1E+05	2.8E+00	2.8E+00	2.8E+00	N
1,1-Dichloroethane	1.0E+05	1.3E+02	1.3E+02	4.1E+05	NA	4.1E+05	1.3E+02	C
1,2-Dichloroethane	6.3E+02	2.5E+00	2.5E+00	1.2E+04	1.6E+01	1.6E+01	2.5E+00	C
1,1-Dichloroethene	NA	NA	NA	1.0E+05	4.4E+01	4.4E+01	4.4E+01	N
cis-1,2-Dichloroethene	NA	NA	NA	4.1E+03	NA	4.1E+03	4.1E+03	N
trans-1,2-Dichloroethene	NA	NA	NA	4.1E+04	NA	4.1E+04	4.1E+04	N
1,2-Dichloropropane	1.6E+03	5.4E+00	5.4E+00	1.8E+05	7.7E+00	7.7E+00	5.4E+00	C
1,3-Dichloropropene	5.7E+02	1.3E+01	1.3E+01	6.1E+04	3.7E+01	3.7E+01	1.3E+01	C
cis-1,3-Dichloropropene	NA	NA	NA	NA	NA	NA	NA	
trans-1,3-Dichloropropene	NA	NA	NA	NA	NA	NA	NA	
Chloroethane	NA	NA	NA	NA	3.0E+03	3.0E+03	3.0E+03	N
Ethylbenzene	5.2E+03	3.8E+01	3.8E+01	2.0E+05	3.4E+03	3.4E+03	3.8E+01	C
2-Hexanone	NA	NA	NA	1.0E+04	1.7E+02	1.7E+02	1.7E+02	N
Methyl acetate	NA	NA	NA	2.0E+06	NA	2.0E+06	2.0E+06	N
2-Butanone	NA	NA	NA	1.2E+06	1.8E+04	1.7E+04	1.7E+04	N
4-Methyl-2-pentanone	NA	NA	NA	1.6E+05	1.3E+04	1.2E+04	1.2E+04	N
Methyl tert-butyl ether	3.2E+04	1.9E+02	1.9E+02	NA	5.4E+03	5.4E+03	1.9E+02	C
Methylcyclohexane	NA	NA	NA	NA	NA	NA	NA	
Methylene Chloride	2.9E+04	2.2E+03	2.1E+03	1.2E+04	4.7E+02	4.6E+02	4.6E+02	N
Isopropylbenzene	NA	NA	NA	2.0E+05	4.3E+03	4.2E+03	4.2E+03	N
Styrene	NA	NA	NA	4.1E+05	5.8E+03	5.7E+03	5.7E+03	N
1,1,2,2-Tetrachloroethane	2.9E+03	4.3E+01	4.2E+01	4.1E+04	NA	4.1E+04	4.2E+01	C
Tetrachloroethene	2.7E+04	1.0E+02	1.0E+02	1.2E+04	3.8E+01	3.8E+01	3.8E+01	N
Toluene	NA	NA	NA	1.6E+05	1.2E+04	1.2E+04	1.2E+04	N
1,1,2-trichloro-1,2,2-trifluoroethal	NA	NA	NA	6.1E+07	3.4E+03	3.4E+03	3.4E+03	N
1,2,4-Trichlorobenzene	2.0E+03	NA	2.0E+03	2.0E+04	3.8E+01	3.8E+01	3.8E+01	N
1,1,1-Trichloroethane	NA	NA	NA	4.1E+06	2.4E+03	2.4E+03	2.4E+03	N

Table A15
Health Based Goals for Potential Commercial/Industrial Worker Exposure to Soil
Voluntary Remediation Program - Progress Report
Lafarge Road Marking
East Point, Georgia

Detected Regulated Substance	CANCER EFFECTS			NON-CANCER EFFECTS			Soil HBGind Goal (mg/kg)	
	Route-Specific HBG (mg/kg)		HBGc (mg/kg)	Route-Specific HBG (mg/L)		HBGnc (mg/kg)		
	Oral	Inhalation		Oral	Inhalation			
1,1,2-Trichloroethane	1.0E+04	7.0E+01	6.9E+01	8.2E+03	8.0E-01	8.0E-01	8.0E-01	N
Trichloroethene	1.2E+03	6.2E+00	6.1E+00	1.0E+03	1.8E+00	1.8E+00	1.8E+00	N
Trichlorofluoromethane	NA	NA	NA	6.1E+05	7.1E+01	7.1E+01	7.1E+01	N
Vinyl Chloride	7.9E+01	2.5E-04	2.5E-04	6.1E+03	1.3E+01	1.3E+01	2.5E-04	C
m-Xylene	NA	NA	NA	4.1E+05	3.3E+02	3.3E+02	3.3E+02	N
o-Xylene	NA	NA	NA	4.1E+05	3.9E+02	3.9E+02	3.9E+02	N
p-Xylene	NA	NA	NA	4.1E+05	3.4E+02	3.3E+02	3.3E+02	N
m,p-Xylene	NA	NA	NA	4.1E+05	3.3E+02	3.3E+02	3.3E+02	N
Xylenes (total)	NA	NA	NA	4.1E+05	3.5E+02	3.5E+02	3.5E+02	N
Semivolatile Organics								
2-Methylphenol	NA	NA	NA	1.0E+05	4.1E+09	1.0E+05	1.0E+05	N
4-Methylphenol	NA	NA	NA	2.0E+05	4.1E+09	2.0E+05	2.0E+05	N
Inorganics								
Barium	NA	NA	NA	4.1E+05	3.4E+06	3.6E+05	3.6E+05	N
Copper	NA	NA	NA	8.2E+04	NA	8.2E+04	8.2E+04	N
Iron	NA	NA	NA	1.4E+06	NA	1.4E+06	1.4E+06	N
Lead	NA	NA	NA	NA	NA	NA	NA	N
Manganese	NA	NA	NA	4.9E+04	3.4E+05	4.3E+04	4.3E+04	N

mg/kg Milligram per kilogram.
NA Not available/applicable.

HBGres_c Health based goal for an industrial worker (mg/kg); for each constituent, the minimum of the HBGc and the HBGnc.
HBGnc (non-cancer) is calculated using a target hazard index (THI) of 1.
HBGc (cancer) is calculated using the target cancer risk (TCR) indicated on Table A3.

Table A16
Soil Screening Levels for Migration to Groundwater Based on Groundwater Type 4 Risk Reduction Standards
Voluntary Remediation Program - Progress Report
Lafarge Road Marking
East Point, Georgia

Detected Regulated Substance	Type 4 GW RRS [a] (mg/L)	Cw (mg/L)	K _d or K _{oc} (L/kg)	Henry's Law Constant (HLC) (atm-m ³ /mol)	H' (unitless)	SSL_Type 4 GW (mg/kg)
Volatile Organics						
Acetone	4.6E+01	9.2E+02	2.4E+00	3.5E-05	1.4E-03	1.9E+02
Benzene	8.7E-03	1.7E-01	1.5E+02	5.6E-03	2.3E-01	8.9E-02
Carbon Tetrachloride	1.0E-02	2.0E-01	4.4E+01	2.8E-02	1.1E+00	7.7E-02
Chlorobenzene	1.4E-01	2.8E+00	2.3E+02	3.1E-03	1.3E-01	1.9E+00
Chloroform	8.0E-02	1.6E+00	3.2E+01	3.7E-03	1.5E-01	4.4E-01
Cyclohexane	1.8E+01	3.6E+02	1.5E+02	1.5E-01	6.1E+00	3.7E+02
1,1-Dichloroethene	5.2E-01	1.0E+01	3.2E+01	2.6E-02	1.1E+00	3.7E+00
cis-1,2-Dichloroethene	2.0E-01	4.0E+00	4.0E+01	4.1E-03	1.7E-01	1.2E+00
trans-1,2-Dichloroethene	2.0E+00	4.0E+01	4.0E+01	4.1E-03	1.7E-01	1.2E+01
Ethylbenzene	7.0E-01	1.4E+01	4.5E+02	7.9E-03	3.2E-01	1.6E+01
2-Butanone	1.2E+01	2.4E+02	4.5E+00	5.7E-05	2.3E-03	5.0E+01
4-Methyl-2-pentanone	4.2E+00	8.4E+01	1.3E+01	1.4E-04	5.6E-03	1.9E+01
Methylene Chloride	4.5E-01	9.0E+00	2.2E+01	3.3E-03	1.3E-01	2.3E+00
Tetrachloroethene	9.8E-02	2.0E+00	9.5E+01	1.8E-02	7.2E-01	8.9E-01
Toluene	5.2E+00	1.0E+02	2.3E+02	6.6E-03	2.7E-01	7.2E+01
1,1,1-Trichloroethane	1.4E+01	2.8E+02	4.4E+01	1.7E-02	7.0E-01	9.8E+01
1,1,2-Trichloroethane	4.1E-01	8.2E+00	6.1E+01	8.2E-04	3.4E-02	2.7E+00
Trichloroethene	5.2E-03	1.0E-01	6.1E+01	9.9E-03	4.0E-01	3.7E-02
Trichlorofluoromethane	2.0E+00	4.0E+01	4.4E+01	9.7E-02	4.0E+00	2.5E+01
Vinyl Chloride	2.0E-03	4.0E-02	2.2E+01	2.8E-02	1.1E+00	1.4E-02
o-Xylene	2.9E-01	5.8E+00	3.8E+02	5.2E-03	2.1E-01	5.7E+00
m,p-Xylene	2.9E-01	5.8E+00	3.8E+02	7.2E-03	2.9E-01	5.7E+00
Xylenes (total)	1.0E+01	2.0E+02	3.8E+02	5.2E-03	2.1E-01	2.0E+02
Semivolatile Organics						
2-Methylphenol	5.1E+00	1.0E+02	3.1E+02	1.2E-06	4.9E-05	8.3E+01
4-Methylphenol	1.0E+01	2.0E+02	3.0E+02	1.0E-06	4.1E-05	1.6E+02
Inorganics						
Barium	2.0E+01	4.0E+02	4.1E+01			1.6E+04
Copper	4.1E+00	8.2E+01	3.5E+01			2.9E+03
Lead	1.5E-02	3.0E-01	9.0E+02			2.7E+02

Table A17
Soil Type 3 and 4 Risk Reduction Standards
Voluntary Remediation Program - Progress Report
Lafarge Road Marking
East Point, Georgia

Detected Regulated Substance	Soil HBGind [a]	Type 3 RRS [b]				SSL_Type 4 GW [c]	Type 4 RRS [d]			
		Surface Soil		Subsurface Soil			Surface Soil		Subsurface Soil	
		(mg/kg)	Source	(mg/kg)	Source		(mg/kg)	Source	(mg/kg)	Source
Volatile Organics										
Acetone	8.90E+04	4.00E+02	GW	4.00E+02	GW	1.88E+02	4.00E+02	Type 3	4.00E+02	Type 3
Benzene	7.00E+00	5.00E-01	GW	5.00E-01	GW	8.90E-02	5.00E-01	Type 3	5.00E-01	Type 3
Carbon Tetrachloride	1.60E+00	5.00E-01	GW	5.00E-01	GW	7.71E-02	5.00E-01	Type 3	5.00E-01	Type 3
Chlorobenzene	1.90E+02	1.00E+01	GW	1.00E+01	GW	1.90E+00	1.00E+01	Type 3	1.00E+01	Type 3
Chloroform	1.30E+00	1.30E+00	HBGind	8.00E+00	GW	4.43E-01	1.30E+00	Type 3	8.00E+00	Type 3
Cyclohexane	1.10E+03	2.00E+01	A-I	2.00E+01	A-I	3.68E+02	3.68E+02	SSL	3.68E+02	SSL
1,1-Dichloroethene	4.40E+01	7.00E-01	GW	7.00E-01	GW	3.70E+00	3.70E+00	SSL	3.70E+00	SSL
cis-1,2-Dichloroethene	4.10E+03	7.00E+00	GW	7.00E+00	GW	1.17E+00	7.00E+00	Type 3	7.00E+00	Type 3
trans-1,2-Dichloroethene	4.10E+04	1.00E+01	GW	1.00E+01	GW	1.17E+01	1.20E+01	SSL	1.20E+01	SSL
Ethylbenzene	3.80E+01	3.80E+01	HBGind	7.00E+01	GW	1.57E+01	3.80E+01	Type 3	7.00E+01	Type 3
2-Butanone	1.70E+04	2.00E+02	GW	2.00E+02	GW	5.02E+01	2.00E+02	Type 3	2.00E+02	Type 3
4-Methyl-2-pentanone	1.20E+04	2.00E+02	GW	2.00E+02	GW	1.90E+01	2.00E+02	Type 3	2.00E+02	Type 3
Methylene Chloride	4.60E+02	5.00E-01	GW	5.00E-01	GW	2.29E+00	2.30E+00	SSL	2.30E+00	SSL
Tetrachloroethene	3.80E+01	5.00E-01	GW	5.00E-01	GW	8.87E-01	8.90E-01	SSL	8.90E-01	SSL
Toluene	1.20E+04	1.00E+02	GW	1.00E+02	GW	7.19E+01	1.00E+02	Type 3	1.00E+02	Type 3
1,1,1-Trichloroethane	2.40E+03	2.00E+01	GW	2.00E+01	GW	9.76E+01	9.80E+01	SSL	9.80E+01	SSL
1,1,2-Trichloroethane	8.00E-01	5.00E-01	A-I	5.00E-01	DL	2.66E+00	8.00E-01	HBGind	2.70E+00	SSL
Trichloroethene	1.80E+00	5.00E-01	GW	5.00E-01	GW	3.71E-02	5.00E-01	Type 3	5.00E-01	Type 3
Trichlorofluoromethane	7.10E+01	7.10E+01	HBGind	2.00E+02	GW	2.53E+01	7.10E+01	Type 3	2.00E+02	Type 3
Vinyl Chloride	2.50E-04	2.50E-04	HBGind	2.00E-01	GW	1.37E-02	2.50E-04	Type 3	2.00E-01	Type 3
o-Xylene	3.90E+02	2.00E+01	A-I	2.00E+01	A-I	5.71E+00	2.00E+01	Type 3	2.00E+01	Type 3
m,p-Xylene	3.30E+02	2.00E+01	A-I	2.00E+01	A-I	5.66E+00	2.00E+01	Type 3	2.00E+01	Type 3
Xylenes (total)	3.50E+02	3.54E+02	HBGind	1.00E+03	GW	1.97E+02	3.54E+02	Type 3	1.00E+03	Type 3
Semivolatile Organics										
2-Methylphenol	1.00E+05	3.80E+00	A-I	3.80E+00	A-I	8.29E+01	8.30E+01	SSL	8.30E+01	SSL
4-Methylphenol	2.00E+05	3.80E+00	A-I	3.80E+00	A-I	1.60E+02	1.60E+02	SSL	1.60E+02	SSL
Inorganics										
Barium	3.60E+05	1.00E+03	HBGind	1.00E+03	BKG	1.65E+04	1.65E+04	SSL	1.65E+04	SSL
Copper	8.20E+04	1.50E+03	A-I	1.50E+03	A-I	2.89E+03	2.89E+03	SSL	2.89E+03	SSL
Lead	NA	4.00E+02	*	4.00E+02	*	2.70E+02	4.00E+02	Type 3	4.00E+02	Type 3

Table A17
Soil Type 3 and 4 Risk Reduction Standards
Voluntary Remediation Program - Progress Report
Lafarge Road Marking
East Point, Georgia

Detected Regulated Substance	Soil HBGind [a]	Type 3 RRS [b]				SSL_Type 4 GW [c]	Type 4 RRS [d]			
		Surface Soil		Subsurface Soil			Surface Soil		Subsurface Soil	
		(mg/kg)	Source	(mg/kg)	Source		(mg/kg)	Source	(mg/kg)	Source

- Not appropriate.
- * Risk reduction standard rule.
- mg/kg Milligrams per kilogram.
- NA Not available/applicable.
- RRS Risk Reduction Standard.

- [a] Health based goal for an industrial worker (HBGind); from Table A15.
- [b] Source of Type 3 RRS:
 A-1: Appendix I notification requirement (NC) ("App I NC").
 A-III: Appendix III.
 BKG: Background.
 DL: Detection limit.
 GW: Appendix III Table 1 times 100.
 HBGind.
- [c] Soil Screening Level (SSL; mg/kg) for the Protection of Groundwater at Type 4 from Table A16.
- [d] Source of Type 4 RRS:
 HBGind.
 SSL: Soil screening level for Migration to Groundwater.
 Type 3 RRS.

Table A18
Voluntary Remediation Program - Progress Report
Lafarge Road Marking
East Point, Georgia

Detected Regulated Substance	Soil Risk Reduction Standards (RRS)									
	Type 1 RRS (mg/kg)	source	Type 2 RRS (mg/kg)	source	Max 1&2 Residential (mg/kg)	Type 3 RRS (mg/kg)	source	Type 4 RRS (mg/kg)	source	Max 3&4 Non-Res (mg/kg)
Volatile Organics										
Acetone	400	GW	400	Type 1	400	400	GW	400	Type 3	400
Benzene	0.5	GW	0.5	Type 1	0.5	0.5	GW	0.5	Type 3	0.5
Carbon Tetrachloride	0.5	GW	0.5	Type 1	0.5	0.5	GW	0.5	Type 3	0.5
Chlorobenzene	10	GW	10	Type 1	10	10	GW	10	Type 3	10
Chloroform	1	HBGc-Res	1	Type 1	1	1.3	HBGind	1.3	Type 3	1.3
Cyclohexane	20	A-I	74	SSL	74	20	A-I	368	SSL	368
1,1-Dichloroethene	0.7	GW	0.71	SSL	0.71	0.7	GW	3.7	SSL	3.7
cis-1,2-Dichloroethene	7	GW	7	Type 1	7	7	GW	7	Type 3	7
trans-1,2-Dichloroethene	10	GW	10	Type 1	10	10	GW	12	SSL	12
Ethylbenzene	30	HBGc-Res	30	Type 1	30	38	HBGind	38	Type 3	38
2-Butanone	200	GW	200	Type 1	200	200	GW	200	Type 3	200
4-Methyl-2-pentanone	200	GW	200	Type 1	200	200	GW	200	Type 3	200
Methylene Chloride	0.5	GW	0.5	Type 1	0.5	0.5	GW	2.3	SSL	2.3
Tetrachloroethene	0.5	GW	0.5	Type 1	0.5	0.5	GW	0.89	SSL	0.89
Toluene	100	GW	100	Type 1	100	100	GW	100	Type 3	100
1,1,1-Trichloroethane	20	GW	20	Type 1	20	20	GW	98	SSL	98
1,1,2-Trichloroethane	0.5	A-I	0.5	Type 1	0.5	0.5	A-I	0.8	HBGind	0.8
Trichloroethene	0.5	GW	0.5	Type 1	0.5	0.5	GW	0.5	Type 3	0.5
Trichlorofluoromethane	68	HBGnc-Res	68	Type 1	68	71	HBGind	71	Type 3	71
Vinyl Chloride	0.0002	HBGc-Res	0.0002	Type 1	0.0002	0.00025	HBGind	0.00025	Type 3	0.00025
o-Xylene	20	A-I	20	Type 1	20	20	A-I	20	Type 3	20
m,p-Xylene	20	A-I	20	Type 1	20	20	A-I	20	Type 3	20
Xylenes (total)	340	HBGnc-Res	340	Type 1	340	354	HBGind	354	Type 3	354
Semivolatile Organics										
2-Methylphenol	3.8	A-I	13	SSL	13	3.8	A-I	83	SSL	83
4-Methylphenol	3.8	A-I	26	SSL	26	3.8	A-I	160	SSL	160
Inorganics										
Barium	1000	A-III	2550	SSL	2550	1000	HBGind	16500	SSL	16500
Copper	100	A-III	915	SSL	915	1500	A-I	2890	SSL	2890
Lead	75	A-III	270	SSL	270	400	*	400	Type 3	400

Table A18
Voluntary Remediation Program - Progress Report
Lafarge Road Marking
East Point, Georgia

Detected Regulated Substance	Groundwater Risk Reduction Standards (RRS)									
	Type 1 RRS (mg/L)	source	Type 2 RRS (mg/L)	source	Max 1&2 Residential (mg/kg)	Type 3 RRS (mg/L)	source	Type 4 RRS (mg/L)	source	Max 3&4 Non-Res (mg/kg)
Volatile Organics										
Acetone	4	A-III	8	HBGres_c	8	4	A-III	46	HBGind	46
Benzene	0.005	A-III	0.0054	HBGres_a	0.0054	0.005	A-III	0.0087	HBGind	0.0087
Carbon Tetrachloride	0.005	A-III	0.0057	HBGres_a	0.0057	0.005	A-III	0.01	HBGind	0.01
Chlorobenzene	0.1	A-III	0.1	Type 1	0.1	0.1	A-III	0.14	HBGind	0.14
Chloroform	0.08	A-III	0.08	Type 1	0.08	0.08	A-III	0.08	Type 3	0.08
Cyclohexane	0.01	DL	3.6	HBGres_c	3.6	0.01	DL	18	HBGind	18
1,1-Dichloroethene	0.007	A-III	0.1	HBGres_c	0.1	0.007	A-III	0.52	HBGind	0.52
cis-1,2-Dichloroethene	0.07	A-III	0.07	Type 1	0.07	0.07	A-III	0.2	HBGind	0.2
trans-1,2-Dichloroethene	0.1	A-III	0.31	HBGres_c	0.31	0.1	A-III	2	HBGind	2
Ethylbenzene	0.7	A-III	0.7	Type 1	0.7	0.7	A-III	0.7	Type 3	0.7
2-Butanone	2	A-III	2.3	HBGres_c	2.3	2	A-III	12	HBGind	12
4-Methyl-2-pentanone	2	A-III	2	Type 1	2	2	A-III	4.2	HBGind	4.2
Methylene Chloride	0.005	A-III	0.074	HBGres_c	0.074	0.005	A-III	0.45	HBGind	0.45
Tetrachloroethene	0.005	A-III	0.019	HBGres_c	0.019	0.005	A-III	0.098	HBGind	0.098
Toluene	1	A-III	1	Type 1	1	1	A-III	5.2	HBGind	5.2
1,1,1-Trichloroethane	0.2	A-III	2.7	HBGres_c	2.7	0.2	A-III	14	HBGind	14
1,1,2-Trichloroethane	0.005	A-III	0.005	Type 1	0.005	0.005	A-III	0.41	HBGind	0.41
Trichloroethene	0.005	A-III	0.005	Type 1	0.005	0.005	A-III	0.0052	HBGind	0.0052
Trichlorofluoromethane	2	A-III	2	Type 1	2	2	A-III	2	Type 3	2
Vinyl Chloride	0.002	A-III	0.002	Type 1	0.002	0.002	A-III	0.002	Type 3	0.002
o-Xylene	0.001	DL	0.058	HBGres_c	0.058	0.001	DL	0.29	HBGind	0.29
m,p-Xylene	0.002	DL	0.058	HBGres_c	0.058	0.002	DL	0.29	HBGind	0.29
Xylenes (total)	10	A-III	10	Type 1	10	10	A-III	10	Type 3	10
Semivolatile Organics										
2-Methylphenol	0.01	DL	0.78	HBGres_c	0.78	0.01	DL	5.1	HBGind	5.1
4-Methylphenol	0.01	DL	1.6	HBGres_c	1.6	0.01	DL	10	HBGind	10
Inorganics										
Barium	2	A-III	3.1	HBGres_c	3.1	2	A-III	20	HBGind	20
Copper	1.3	A-III	1.3	Type 1	1.3	1.3	A-III	4.1	HBGind	4.1
Lead	0.015	A-III	0.015	Type 1	0.015	0.015	A-III	0.015	Type 3	0.015

* Risk reduction standard rule. NA Not applicable.
mg/kg Milligrams per kilogram. TEQ Toxicity Equivalents.
mg/L Milligrams per liter.

Soil Risk Reduction Standards (RRS) for Residential Scenario are the maximum of Type 1 and Type 2 RRS.
Soil Risk Reduction Standards (RRS) for Non-Residential Scenario are the maximum of Type 3 and Type 4 RRS.
Groundwater Risk Reduction Standards (RRS) for Residential Scenario are the maximum of Type 1 and Type 2 RRS.
Groundwater Risk Reduction Standards (RRS) for Residential Scenario are the maximum of Type 3 and Type 4 RRS.



Appendix B

Source Assessment and Removal
Documentation

Table 1
Soil Boring Assessment Analytical Summary (Lead)
Lafarge Road Marking
East Point, Georgia

Sample Identification	Depth Interval	Sample Date	Lead (mg/Kg)
Type 3 RRS			400
Type 4 RRS			1,300
Industrial Soil Noncarcinogenic SL			800
SB-100	n/a	5/20/2013	267
SB-101	n/a	5/20/2013	1,060
SB-102	n/a	5/20/2013	887
SB-103	n/a	5/20/2013	933
SB-104	n/a	5/20/2013	6,290
SB-105	n/a	5/20/2013	897
SB-110	0-1	7/24/2013	374
SB-111	0-2	7/24/2013	180
SB-112	0-2	7/24/2013	295
SB-113	0-2	7/24/2013	549
SB-115	0-2	7/24/2013	2,080
SB-116	0-2	7/24/2013	507
SB-117	0-2	7/24/2013	1,030
SB-118	0-2	7/24/2013	1,270
SB-119	0-2	7/24/2013	664
SB-120	0-1	7/24/2013	636
SB-121	0-2	8/5/2013	1,040
SB-122	0-2	8/5/2013	1,450
SB-123	0-2	8/5/2013	938
SB-124	0-2	8/5/2013	813
SB-125	0-2	8/5/2013	1,420
SB-126	0-2	8/5/2013	1,120
SB-127	0-1	8/12/2013	364
SB-128	0-1	8/12/2013	262
SB-130	0-0.5	8/15/2013	165
SB-131	0-2	8/15/2013	1,130
SB-131B	0-2	8/22/2013	300
SB-132	0-2	8/15/2013	241
SB-133	0-2	8/15/2013	483
SB-133B	0-2	8/22/2013	241
SB-134	0-2	8/15/2013	354
SB-135	0-2	8/15/2013	158
SB-136	0-0.5	8/15/2013	531
SB-137	0-0.5	8/15/2013	843
SB-138	0-0.5	8/15/2013	425
SB-139	0-2	8/22/2013	781
SB-140	0-2	8/22/2013	213
SB-141	0-2	8/22/2013	370



RRS - GAEPD Risk Reduction Standard
RSL - USEPA Region 3 Regional Screening Level

Table 2A
Waste Characterization Sample Analytical Summary
Lafarge Road Marking
East Point, Georgia

Analyte	Regulatory Levels for TC Constituents - Table 1, 40 CFR 261.24	ZONE 3B - SP-1	ZONE 3C - SP-1	ZONE 3D - SP-1	ZONE 3A - SP-2	ZONE 4 - SP-3	ZONE 2 - SP-4	ZONE 5 - SP-4	ZONE 6 - SP-5	ZONE 1 - SP-12	ZONE 1 - SP-12
		5/29/2013	6/13/2013	6/13/2013	5/10/2013	5/22/2013	6/28/2013	6/13/2013	9/11/2013	4/24/13/2013	4/24/13/2013
VOLATILES SW1311/8260B (mg/L)											
1,1-Dichloroethene	0.7	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
1,2-Dichloroethane	0.5	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
2-Butanone	200.0	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Benzene	0.5	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Carbon tetrachloride	0.5	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Chlorobenzene	100.0	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Chloroform	6.0	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Tetrachloroethene	0.7	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Trichloroethene	0.5	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Vinyl chloride	0.2	0.040 U	0.040 U	0.040 U	0.040 U	0.040 U	0.040 U	0.040 U	0.040 U	0.040 U	0.040 U
ICP METALS SW1311/6010C (mg/L)											
Arsenic	5.0	0.250 U	0.250 U	0.250 U	0.250 U	0.250 U	0.250 U	0.250 U	0.250 U	0.250 U	0.250 U
Barium	100.0	0.681	1.78	3.34	0.780	1.84	0.835	1.38	1.08	1.11	1.11
Cadmium	1.0	0.0250 U	0.0401	0.0368	0.0250 U	0.0250 U	0.0250 U	0.0250 U	0.0250 U	0.0250 U	0.0250 U
Chromium	5.0	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0653	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U
Lead	5.0	0.682	47.6	34.7	0.523	2.20	2.40	0.930	3.10	0.448	0.448
Selenium	1.0	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U
Silver	5.0	0.0250 U	0.0250 U	0.0250 U	0.0250 U	0.0250 U	0.0250 U	0.0250 U	0.0250 U	0.0250 U	0.0250 U
MERCURY SW1311/7470A (mg/L)											
Mercury	0.2	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U
SEMI-VOLATILES ORGANICS SW1311/8270D (mg/L)											
1,4-Dichlorobenzene	7.5	NA	0.10 U	0.10 U	0.10 U	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	400.0	NA	0.10 U	0.10 U	0.10 U	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	2.0	NA	0.10 U	0.10 U	0.10 U	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	0.13	NA	0.10 U	0.10 U	0.10 U	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	0.13	NA	0.10 U	0.10 U	0.10 U	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	0.5	NA	0.10 U	0.10 U	0.10 U	NA	NA	NA	NA	NA	NA
Hexachloroethane	3.0	NA	0.10 U	0.10 U	0.10 U	NA	NA	NA	NA	NA	NA
m,p-Cresol	400.0	NA	0.10 U	0.10 U	0.10 U	NA	NA	NA	NA	NA	NA
Nitrobenzene	2.0	NA	0.10 U	0.10 U	0.10 U	NA	NA	NA	NA	NA	NA
o-Cresol	200.0	NA	0.10 U	0.10 U	0.10 U	NA	NA	NA	NA	NA	NA
Pentachlorophenol	100.0	NA	0.50 U	0.50 U	0.50 U	NA	NA	NA	NA	NA	NA
Pyridine	5.0	NA	0.10 U	0.10 U	0.10 U	NA	NA	NA	NA	NA	NA
Cresols, Total	200.0	NA	0.10 U	0.10 U	0.10 U	NA	NA	NA	NA	NA	NA
PESTICIDES SW1311/8081B (mg/L)											
Chlordane	0.03	NA	0.0050 U	0.0050 U	0.0050 U	NA	NA	NA	NA	NA	NA
Endrin	0.02	NA	0.0010 U	0.0010 U	0.0010 U	NA	NA	NA	NA	NA	NA
gamma-BHC	0.4	NA	0.00050 U	0.00050 U	0.00050 U	NA	NA	NA	NA	NA	NA
Heptachlor	0.008	NA	0.00050 U	0.00050 U	0.00050 U	NA	NA	NA	NA	NA	NA
Heptachlor epoxide	0.008	NA	0.00050 U	0.00050 U	0.00050 U	NA	NA	NA	NA	NA	NA
Methoxychlor	10.0	NA	0.0050 U	0.0050 U	0.0050 U	NA	NA	NA	NA	NA	NA
Toxaphene	0.5	NA	0.050 U	0.050 U	0.050 U	NA	NA	NA	NA	NA	NA

Notes:
NA= Not Analyzed



Table 2A
Waste Characterization Sample Analytical Summary
Lafarge Road Marking
East Point, Georgia

Analyte	Regulatory Levels for TC Constituents - Table 1, 40 CFR 261.24	ZONE 3B - SP-1	ZONE 3C - SP-1	ZONE 3D - SP-1	ZONE 3A - SP-2	ZONE 4 - SP-3	ZONE 2 - SP-4	ZONE 5 - SP-4	ZONE 6 - SP-5	ZONE 1 - SP-12	ZONE 1 - SP-12
		5/29/2013	6/13/2013	6/13/2013	5/10/2013	5/22/2013	6/28/2013	6/13/2013	9/11/2013	4/24/13/2013	4/24/13/2013
HERBICIDES SW1311/8151A (mg/L)											
2,4,5-TP (Silvex)	1.0	NA	0.20 U	0.20 U	0.20 U	NA	NA	NA	NA	NA	NA
2,4-D	10.0	NA	0.20 U	0.20 U	0.20 U	NA	NA	NA	NA	NA	NA
Laboratory Hydrogen Ion (pH) SW9045D (std units)											
pH		6.89 H	7.83 H	8.05 H	NA	8.01 H	8.01 H	7.60 H	7.72 H	8.45 H	8.45 H
Ignitability SW1010A (°F)											
Ignitability		180	180	180	NA	180	180	180	180	180	180
Sulfide, Reactive SW7.3.4.2 (mg/kg)											
Sulfide, Reactive		100 U	100 U	100 U	NA	100 U	100 U				
Cyanide, Reactive SW7.3.3.2 (mg/kg)											
Cyanide, Reactive		1.00 U	0.98 U	0.952 U	NA	1.00 U	1.00 U	0.952 U	1.00 U	1.00 U	1.00 U
POLYAROMATIC HYDROCARBONS SW8270D (µg/L)											
Naphthalene		100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
Acenaphthylene		100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
1-Methylnaphthalene		100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
2-Methylnaphthalene		100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
Acenaphthene		100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
Fluorene		100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
Phenanthrene		100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
Anthracene		100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
Fluoranthene		100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
Pyrene		100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
Benz(a)anthracene		100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
Chrysene		100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
Benzo(b)fluoranthene		100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
Benzo(k)fluoranthene		100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
Benzo(a)pyrene		100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
Dibenz(a,h)anthracene		100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
Benzo(g,h,i)perylene		100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
Indeno(1,2,3-cd)pyrene		100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U

Notes:
NA= Not Analyzed



Table 2B
Waste Characterization Total Soil Analytical Summary
Lafarge Road Marking
East Point, Georgia

Analyte	Land Disposal Restrictions, 40 CFR 268.48	ZONE 3A - SP-2
		5/15/2013
TCL-SEMIVOLATILE ORGANICS SW8270D (ug/L)		
1,1'-Biphenyl		390 U
2,4,5-Trichlorophenol		2000 U
2,4,6-Trichlorophenol		390 U
2,4-Dichlorophenol		390 U
2,4-Dimethylphenol		390 U
2,4-Dinitrophenol		2000 U
2,4-Dinitrotoluene		390 U
2,6-Dinitrotoluene		390 U
2-Chloronaphthalene		390 U
2-Chlorophenol		390 U
2-Methylnaphthalene		390 U
2-Methylphenol		390 U
2-Nitroaniline		2000 U
2-Nitrophenol		390 U
3,3'-Dichlorobenzidine		800 U
3-Nitroaniline		2000 U
4,6-Dinitro-2-methylphenol		2000 U
4-Bromophenyl phenyl ether		390 U
4-Chloro-3-methylphenol		390 U
4-Chloroaniline		390 U
4-Chlorophenyl phenyl ether		390 U
4-Methylphenol		390 U
4-Nitroaniline		2000 U
4-Nitrophenol		2000 U
Acenaphthene		390 U
Acenaphthylene		390 U
Acetophenone		390 U
Anthracene		390 U
Atrazine		390 U
Benz(a)anthracene		390 U
Benzaldehyde		390 U
Benzo(a)pyrene		390 U
Benzo(b)fluoranthene		390 U
Benzo(g,h,i)perylene		390 U
Benzo(k)fluoranthene		390 U
Bis(2-chloroethoxy)methane		390 U
Bis(2-chloroethyl)ether		390 U
Bis(2-chloroisopropyl)ether		390 U
Bis(2-ethylhexyl)phthalate		390 U
Butyl benzyl phthalate		390 U
Caprolactam		390 U
Carbazole		390 U
Chrysene		390 U
Di-n-butyl phthalate		390 U
Di-n-octyl phthalate		390 U
Dibenz(a,h)anthracene		390 U
Dibenzofuran		390 U
Diethyl phthalate		390 U
Dimethyl phthalate		390 U
Fluoranthene		390 U
Fluorene		390 U
Hexachlorobenzene		390 U
Hexachlorobutadiene		390 U
Hexachlorocyclopentadiene		780 U
Hexachloroethane		390 U
Indeno(1,2,3-cd)pyrene		390 U
Isophorone		390 U
N-Nitrosodi-n-propylamine		390 U
N-Nitrosodiphenylamine		390 U
Naphthalene		390 U
Nitrobenzene		390 U
Pentachlorophenol		2000 U
Phenanthrene		390 U
Phenol		390 U
Pyrene		390 U

Analyte	Land Disposal Restrictions, 40 CFR 268.48	ZONE 3A - SP-2
		5/15/2013
TCL VOLATILE ORGANICS SW8260B (ug/L)		
1,1,1-Trichloroethane		3.5 U
1,1,2,2-Tetrachloroethane		3.5 U
1,1,2-Trichloroethane		3.5 U
1,1-Dichloroethane		3.5 U
1,1-Dichloroethene		3.5 U
1,2,4-Trichlorobenzene		3.5 U
1,2-Dibromo-3-chloropropane		3.5 U
1,2-Dibromoethane		3.5 U
1,2-Dichlorobenzene		3.5 U
1,2-Dichloroethane		3.5 U
1,2-Dichloropropane		3.5 U
1,3-Dichlorobenzene		3.5 U
1,4-Dichlorobenzene		3.5 U
2-Butanone		35 U
2-Hexanone		6.9 U
4-Methyl-2-pentanone		6.9 U
Acetone		69 U
Benzene	10,000	12
Bromodichloromethane		3.5 U
Bromoform		3.5 U
Bromomethane		3.5 U
Carbon disulfide		6.9 U
Carbon tetrachloride		3.5 U
Chlorobenzene		3.5 U
Chloroethane		6.9 U
Chloroform		3.5 U
Chloromethane		6.9 U
cis-1,2-Dichloroethene	6,000	1300
cis-1,3-Dichloropropene		3.5 U
Cyclohexane		3.5 U
Dibromochloromethane		3.5 U
Dichlorodifluoromethane		6.9 U
Ethylbenzene		770
Freon-113		6.9 U
Isopropylbenzene		4.4
m,p-Xylene	30,000	1100
Methyl acetate		3.5 U
Methyl tert-butyl ether		3.5 U
Methylcyclohexane		19
Methylene chloride		10 U
o-Xylene	30,000	1500
Styrene		3.5 U
Tetrachloroethene		8.7
Toluene	10,000	2400
trans-1,2-Dichloroethene		3.5 U
trans-1,3-Dichloropropene		3.5 U
Trichloroethene	6,000	37000
Trichlorofluoromethane		3.5 U
Vinyl chloride		6.9 U



Note: Standard for compounds with detections are shown from Regulatory Levels for Universal Treatment Standards Constituents - Table 1, 40 CFR 268.48

Table 3A
Confirmation Sample Analytical Summary (Lead)
Lafarge Road Marking
East Point, Georgia

Sample Identification	Sample Date	Lead (mg/Kg)
Type 3 RRS		400
Type 4 RRS		1,300
Industrial Soil Noncarcinogenic RSL		800
Zone 1 - A1 - E Wall	4/23/2013	135
Zone 1 - A2	4/23/2013	152
Zone 1 - B3	4/23/2013	16.3
Zone 1 - B3 - E Wall	4/23/2013	14.1
Zone 1 - B4 - S Wall	4/23/2013	15.8
Zone 1 - C1 - N Wall	4/23/2013	199
Zone 1 - C2	4/23/2013	94.3
Zone 1 - D1	4/23/2013	52.2
Zone 1 - B1	4/24/2013	62.9
Zone 1 - C4	4/24/2013	17
Zone 1 - D3	4/24/2013	188
Zone 1 - D4 - W Wall	4/24/2013	26.4
Zone 1 - D5	4/24/2013	82.5
Zone 1 - E2	4/24/2013	322
Zone 1 - F1	4/24/2013	555
Zone 1 - F1 - N Wall	4/24/2013	229
Zone 1 - F3	4/24/2013	287
Zone 1 - F3 - W Wall	4/24/2013	22.6
Zone 2A - A1 - N Wall	6/20/2013	206
Zone 2A - A2	6/20/2013	183
Zone 2A - A2 - W Wall	6/20/2013	13.7
Zone 2A - B1	6/20/2013	198
Zone 2A - C1 - N Wall	6/20/2013	263
Zone 2A - C2	6/20/2013	422
Zone 2A - C2 - S Wall	6/20/2013	187
Zone 2A - E2 - S Wall	6/26/2013	610
Zone 2A - D1	6/26/2013	469
Zone 2A - D2 - S Wall	6/26/2013	1,520
Zone 2A - E1 - N Wall	6/26/2013	586
Zone 2A - E2	6/26/2013	121
Zone 3A - A2 S Wall	5/9/2013	355
Zone 3A - C2 S Wall	5/9/2013	206
Zone 3A - D1	5/9/2013	575
Zone 3A - D1 N Wall	5/9/2013	419
Zone 3A - E2 S Wall	5/9/2013	560
Zone 3A - F1	5/9/2013	329
Zone 3A - F1 N Wall	5/9/2013	229
Zone 3A - G2	5/9/2013	285
Zone 3A - G2 W Wall	5/9/2013	314
Zone 3A - A2	5/10/2013	20.6
Zone 3A - B1	5/10/2013	54.3
Zone 3A - B1 N Wall	5/10/2013	310
Zone 3A - C2	5/10/2013	68.2
Zone 3A - E2	5/10/2013	322
Zone 3B - A1	5/29/2013	367
Zone 3B - A1 N Wall	5/29/2013	437
Zone 3B - B2	5/29/2013	422
Zone 3B - B2 S Wall	5/29/2013	586
Zone 3B - C1	5/29/2013	63.8
Zone 3B - D2	5/29/2013	246

Sample Identification	Sample Date	Lead (mg/Kg)
Type 3 RRS		400
Type 4 RRS		1,300
Industrial Soil Noncarcinogenic RSL		800
Zone 3B - D2 S Wall	5/29/2013	185
Zone 3B - E1	5/29/2013	561
Zone 3B - E4 S Wall	5/29/2013	450
Zone 3B - F2	5/29/2013	576
Zone 3B - F3 S Wall	5/29/2013	596
Zone 3B - F4	5/29/2013	519
Zone 3B - G1	5/29/2013	258
Zone 3B - G3	5/29/2013	376
Zone 3B - H2	5/29/2013	520
Zone 3B - H4 W Wall	5/29/2013	640
Zone 3B - I1	5/29/2013	443
Zone 3B - I3	5/29/2013	569
Zone 3B - J1 E Wall	5/29/2013	323
Zone 3B - J2	5/29/2013	46
Zone 3B - J4	5/29/2013	514
Zone 3B - J4 E Wall	5/29/2013	428
Zone 3C - A1	6/11/2013	28
Zone 3C - A3	6/12/2013	991
Zone 3C - A3 E Wall	6/12/2013	576
Zone 3C - B2	6/12/2013	2,150
Zone 3C - B4	6/12/2013	170
Zone 3C - C1	6/12/2013	837
Zone 3C - C1 S Wall	6/12/2013	243
Zone 3C - C3	6/12/2013	341
Zone 3C - D2	6/12/2013	307
Zone 3C - D4	6/12/2013	1,190
Zone 3C - E1	6/12/2013	667
Zone 3C - E1 W Wall	6/12/2013	695
Zone 3C - E3	6/12/2013	452
Zone 3C - E4 W Wall	6/12/2013	228
Zone 4 - A1 N Wall	5/21/2013	1,890
Zone 4 - A3 W Wall	5/21/2013	581
Zone 4 - B1	5/21/2013	485
Zone 4 - B3	5/21/2013	30
Zone 4 - C1 N Wall	5/21/2013	489
Zone 4 - C2	5/21/2013	262
Zone 4 - C3 E Wall	5/21/2013	1,980
Zone 5 - A2	6/13/2013	70
Zone 5 - A4	6/13/2013	128
Zone 5 - A4 W Wall	6/13/2013	141
Zone 5 - B1	6/13/2013	1,020
Zone 5 - B1 N Wall	6/13/2013	603
Zone 5 - B3	6/13/2013	1,200
Zone 5 - B3 W Wall	6/13/2013	19
Zone 5 - B4 E Wall	6/13/2013	1,420
Zone 5 - C2	6/13/2013	212
Zone 5 - D1	6/13/2013	177
Zone 5 - D1 N Wall	6/13/2013	135
Zone 5 - D3	6/13/2013	82
Zone 5 - D3 S Wall	6/13/2013	238

RRS - GAEPD Risk Reduction Standard
RSL - USEPA Region 3 Regional Screening Level



Table 3B
Confirmation Sample Analytical Summary (VOCs)
Lafarge Road Marking
East Point, Georgia

Sample Identification				ZONE 1 - C2	ZONE 2A - C2	ZONE 3A - B1	ZONE 3A - C2	ZONE 3A - E2	ZONE 3B - J4	ZONE 3C - A1	ZONE 4 - B3	ZONE 5 - A2	ZONE 5 - A4	ZONE 5 - B3	ZONE 5 - D1	ZONE 5 - D3
Analyte	Type 1 RRS ^a	Industrial Soil Carcinogenic RSL ^b	Industrial Soil Noncarcinogenic RSL ^b						E Wall					W Wall		S Wall
	(mg/kg)	(mg/kg)	(mg/kg)	4/23/2013	6/20/2013	5/30/2013	5/30/2013	5/30/2013	5/29/2013	6/11/2013	5/21/2013	6/13/2013	6/13/2013	6/13/2013	6/13/2013	6/13/2013
1,1,2-Trichloroethane	5.44	5.3	6.8	0.0018 U	0.0034 U	0.047	0.020	0.0040 U	0.0045 U	0.180 U	0.0039 U	0.0030 U	0.130 U	0.0036 U	0.0035 U	0.400 U
2-Butanone (Methyl ethyl ketone)	0.79	NA	200000	0.018 U	0.034 U	10.000	0.370 E	0.040 U	0.0450 U	1.800 U	0.039 U	0.030 U	1.300 U	0.036 U	0.035	4.000 U
4-Methyl-2-pentanone (Methyl isobutyl ketone)	3.30	NA	53000	0.0037 U	0.0067 U	16.000	0.490	0.026	0.0089 U	0.360 U	0.0078 U	0.0060 U	0.250 U	0.0073 U	0.0071 U	0.810 U
Acetone	2.74	NA	630000	0.037 U	0.067 U	2.000	0.079 U	0.080 U	0.140	3.600 U	0.0780 U	0.086	2.500 U	0.073 U	0.120	8.100 U
Benzene	0.02	5.4	450	0.0021	0.0034 U	0.470	0.030	0.0040 U	0.0045 U	0.180 U	0.0039 U	0.012	0.130 U	0.043	0.017	5.200
Chlorobenzene	4.18	NA	1400	0.0018 U	0.0034 U	0.0053	0.0040 U	0.0040 U	0.0045 U	0.180 U	0.0039 U	0.0030 U	0.130 U	0.0036 U	0.0035 U	0.400 U
cis-1,2-Dichloroethene	0.53	NA	2000	0.120	0.0034 U	2.300	3.600	1.300	0.0045 U	0.180 U	0.0039 U	0.0030 U	0.130 U	0.0036 U	0.0035 U	0.400 U
Cyclohexane	20.00	NA	2800	0.0018 U	0.0034 U	0.930	0.050	0.0040 U	0.0045 U	0.730	0.0039 U	0.030	0.560	0.0036 U	2.000	9.100
Ethylbenzene	20.00	27	21000	0.0023	0.0034 U	9.200	8.200	0.017	0.0045 U	0.990	0.0039 U	0.074	5.400	4.800	0.027	6.300
Isopropylbenzene (Cumene)	21.88	NA	11000	0.0018 U	0.0034 U	0.590	0.079	0.0040 U	0.0045 U	2.100	0.0039 U	0.0057	0.280	0.0036 U	1.100	0.730
m,p-Xylene	20.00	NA	2600	0.0045	0.0034 U	37.000	35.000	0.087	0.0045 U	0.680	0.0039 U	0.0030 U	0.130 U	0.0036 U	0.0035 U	3.500
Methylcyclohexane	NA	NA	NA	0.0066	0.0034 U	1.900	1.200	0.0049	0.0045 U	3.300	0.0039 U	0.042	4.500	0.072	0.830	7.500
Methylene chloride	0.08	960	3100	0.0018 U	0.013 U	0.990	0.210	0.016 U	0.018 U	0.720 U	0.016 U	0.012 U	0.500 U	0.0150 U	0.014 U	1.600 U
o-Xylene	20.00	NA	3000	0.0022	0.0034 U	9.500	8.100	0.016	0.0045 U	0.180 U	0.0039 U	0.0030 U	0.130 U	0.0036 U	0.0035 U	0.820
Tetrachloroethene	0.18	110	410	0.0018 U	0.0034 U	0.120	0.076	0.0040 U	0.0045 U	0.180 U	0.0039 U	0.0030 U	0.130 U	0.0036 U	0.0035 U	0.400 U
Toluene	14.4	82000	45000	0.0038	0.0034 U	25.000	7.400	0.470	0.0094	0.180 U	0.0039 U	0.0030 U	0.130 U	0.0036 U	0.0035 U	0.940
trans-1,2-Dichloroethene	0.53	NA	690	0.0018 U	0.0034 U	0.0040 U	0.0040 U	0.0120	0.0045 U	0.180 U	0.0039 U	0.0030 U	0.130 U	0.0036 U	0.0035 U	0.400 U
Trichloroethene	0.13	6.4	20	0.046	0.0034 U	220.000	54.000	0.640	0.0045 U	0.180 U	0.0039 U	0.0030 U	0.130 U	0.0036 U	0.0035 U	0.400 U
Vinyl chloride	0.04	1.7	390	0.0037 U	0.0067 U	0.0079 U	0.0079	0.032	0.0089 U	0.360 U	0.0078 U	0.0060 U	0.250 U	0.0073 U	0.0071 U	0.810 U

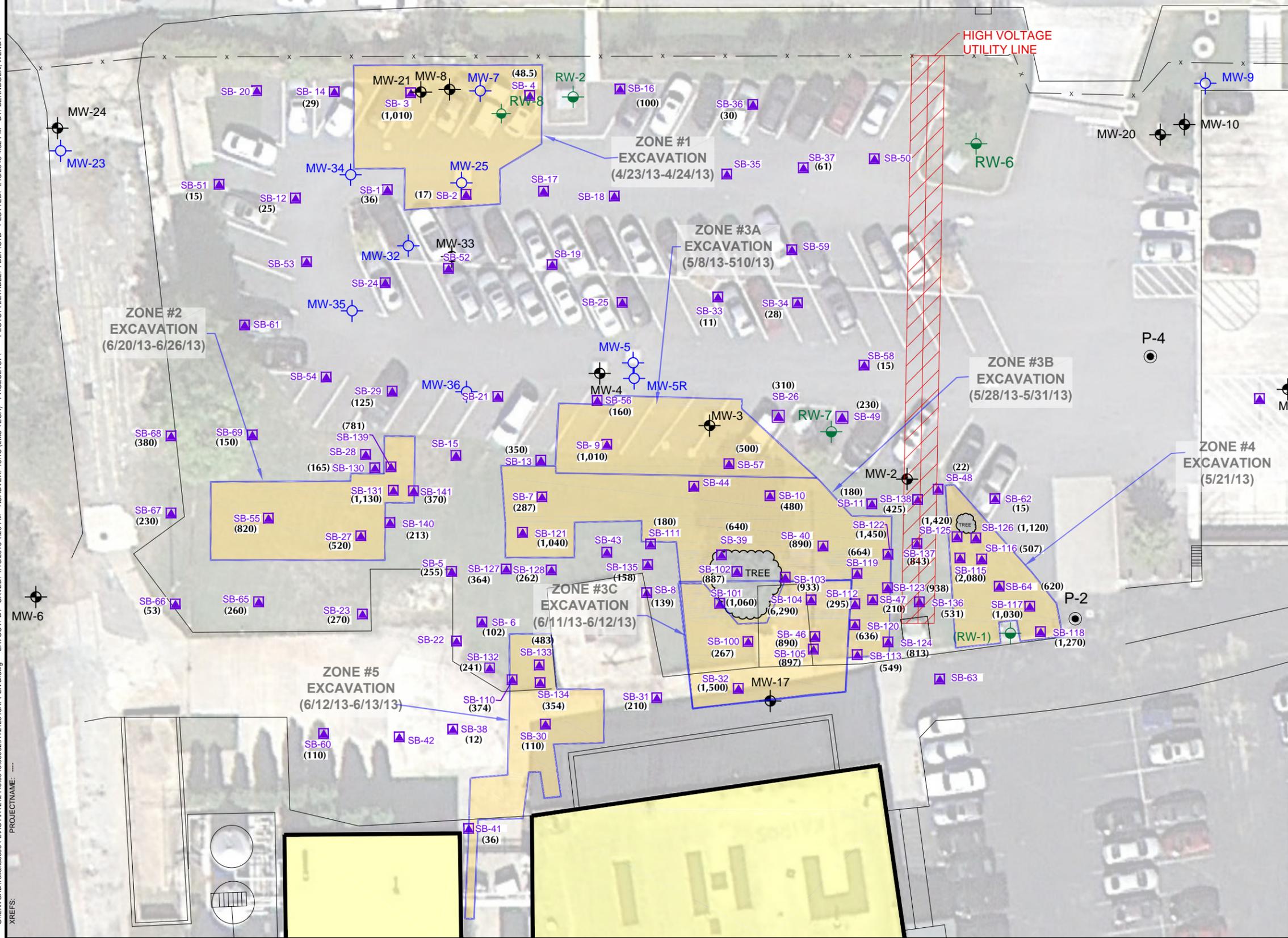
Notes:
Samples were analyzed using United States Environmental Protection Agency Method 8260 (VOCs) and 6010 (metals)
Values are presented in milligrams per kilogram, unless otherwise noted.
^a GA EPD VRP Delineation Standard
^b EPA Region 3 Regional Screening Level Industrial Soil Table November 2012
Bold : concentration exceeds an applicable standard
bgs : below ground surface
E = Estimated (value above quantitation range)
U = Below Reporting Limit



East Forrest Avenue

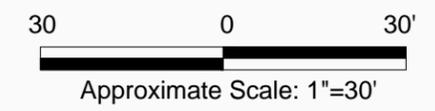


CITY:(Reqd) DIV:GROUP:(Reqd) DB:(Reqd) LD:(Opt) PIC:(Opt) PM:(Reqd) TM:(Opt) LVR:(Opt)ON="OFF"=REF*
 G:\ENV\CAD\Talbasse-FL\ACT\THT212446\0015\00002\T212516\APPEN B.dwg LAYOUT: B1_SAVED: 4/16/2015 4:29 PM
 ACADVER: 18.15 (LMS TECH) PAGES: 10 PLOTSETUP: ... PLOTSTYLETABLE: FDEP.CTB PLOTTED: 4/16/2015 4:32 PM BY: BERNDGEN, WENDY
 XREFS: PROJECTNAME: ...



LEGEND:

- PIEZOMETER
- MONITORING WELL IN UPPER AQUIFER ZONE (RESIDUAL SOIL)
- MONITORING WELL IN LOWER AQUIFER ZONE (FRACTURED ROCK)
- RECOVERY WELL
- (RW-1) RECOVERY WELL NOT IN SERVICE
- EXISTING OBSERVATION WELL
- EXISTING SOIL VAPOR EXTRACTION WELL
- EXISTING AIR SPARGE WELL
- SOIL BORING LOCATION
- (370)** LEAD CONCENTRATION IN PARTS PER MILLION 0-2 FEET BELOW GROUND SURFACE (BGS)
- ESTIMATED EXTENT OF EXCAVATION
- BGS BELOW GROUND SURFACE



LAFARGE ROAD MARKING
2675 NORTH MARTIN STREET
EAST POINT, GEORGIA

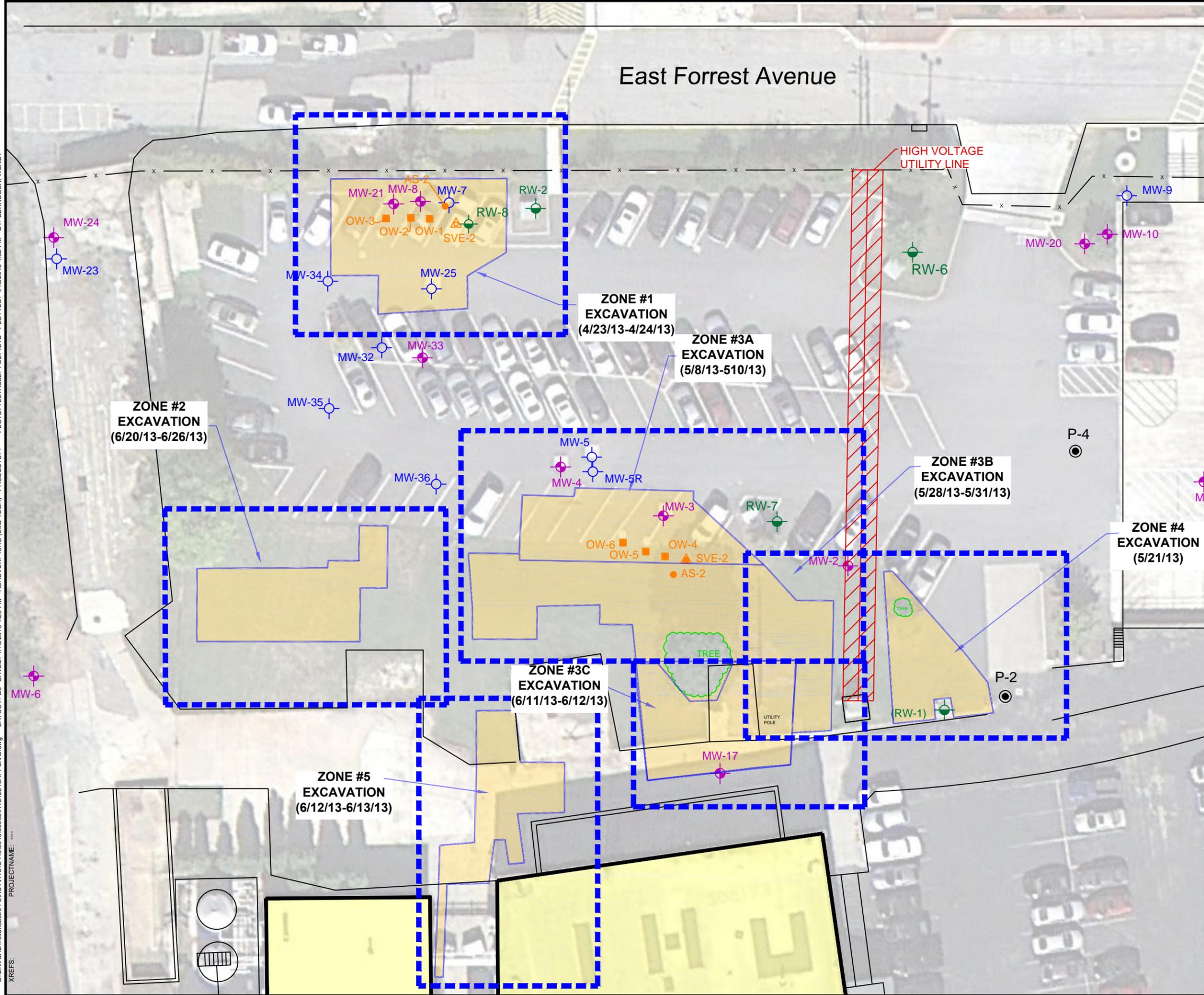
**SURFICIAL SOIL BORINGS WITH LEAD
SOIL ANALYTICAL RESULTS**

FIGURE
B1

East Forrest Avenue

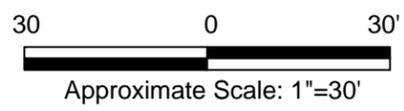


CITY: (Reqd) DIV: GROUP: (Reqd) DB: (Reqd) LD: (Opt) PIC: (Opt) PM: (Reqd) TM: (Opt) LVR: (Opt) ON: "OFF" REF: G:\ENVCAD\Tallahassee-FL\ACT\THT212446\0015\00002\T212516\APPEN B.dwg LAYOUT: B3 SAVED: 4/16/2015 4:29 PM ACADVER: 18.15 (LMS TECH) PAGES: 1 OF 1 PLOTSETUP: ... PLOTSTYLETABLE: FDEP.CTB PLOTTED: 4/16/2015 4:32 PM BY: BERNDGEN, WENDY XREFS: PROJECTNAME: ...



LEGEND:

- PIEZOMETER
- MONITORING WELL IN UPPER AQUIFER ZONE (RESIDUAL SOIL)
- MONITORING WELL IN LOWER AQUIFER ZONE (FRACTURED ROCK)
- RECOVERY WELL
- (RW-1) RECOVERY WELL NOT IN SERVICE
- EXISTING OBSERVATION WELL
- EXISTING SOIL VAPOR EXTRACTION WELL
- EXISTING AIR SPARGE WELL

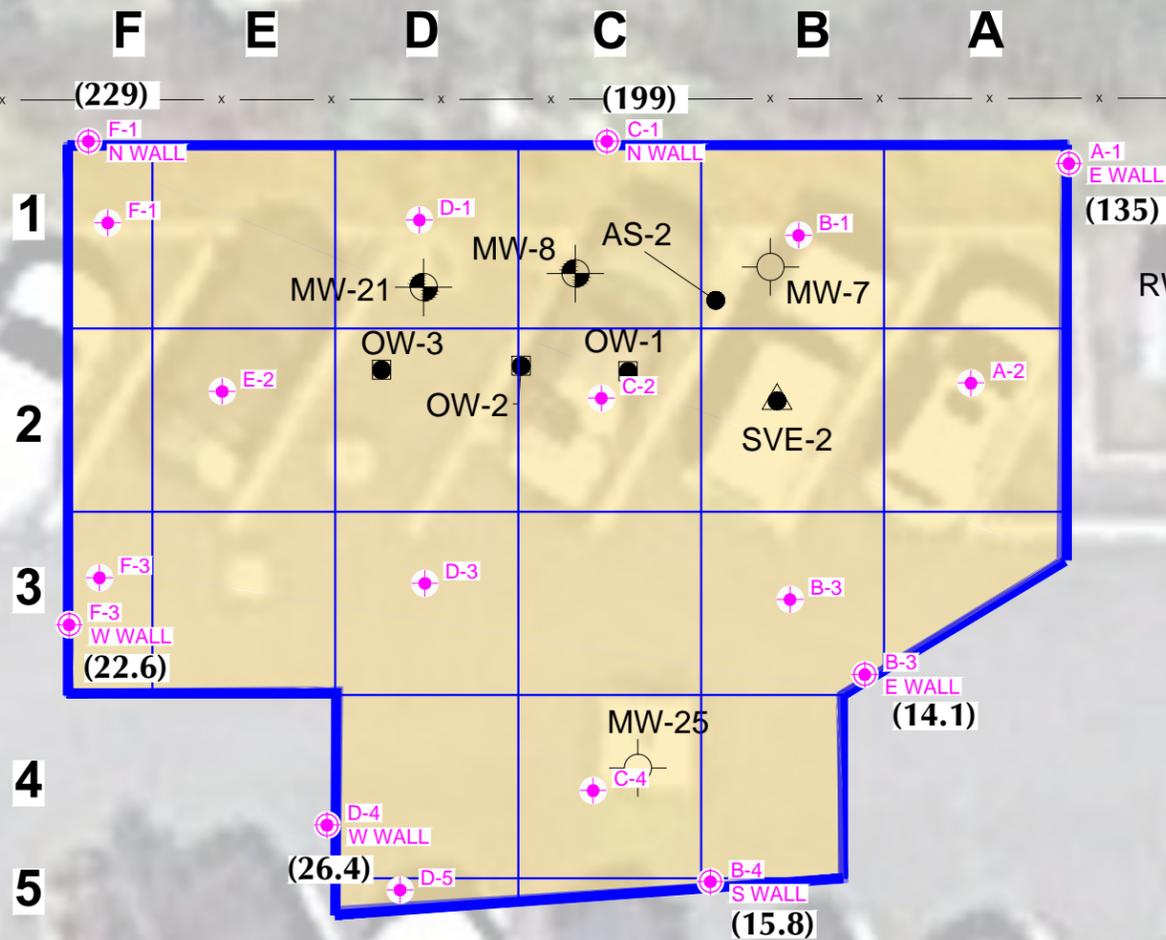


LAFARGE ROAD MARKING
2675 NORTH MARTIN STREET
EAST POINT, GEORGIA

SURFICIAL EXCAVATION AREAS

EAST FORREST AVENUE

ZONE #1 EXCAVATION

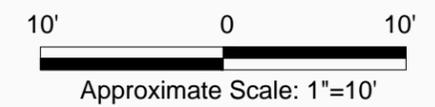


LEGEND:

- PIEZOMETER
- MONITORING WELL IN UPPER AQUIFER ZONE (RESIDUAL SOIL)
- MONITORING WELL IN LOWER AQUIFER ZONE (FRACTURED ROCK)
- RECOVERY WELL
- (RW-1) RECOVERY WELL NOT IN SERVICE
- EXISTING OBSERVATION WELL
- EXISTING SOIL VAPOR EXTRACTION WELL
- EXISTING AIR SPARGE WELL
- CONFIRMATORY SIDE WALL SOIL SAMPLE LOCATION
- CONFIRMATORY FLOOR SOIL SAMPLE LOCATION
- ESTIMATED EXTENT OF EXCAVATION
- BGS BELOW GROUND SURFACE
- (370)** LEAD CONCENTRATION IN PARTS PER MILLION 0-2 FEET BELOW GROUND SURFACE (BGS)

NOTES:

- SIDE WALL SAMPLES TAKEN FROM 1-2' BGS RANGE.
- FLOOR SAMPLES TAKEN FROM 2' BGS.



LAFARGE ROAD MARKING
2675 NORTH MARTIN STREET
EAST POINT, GEORGIA

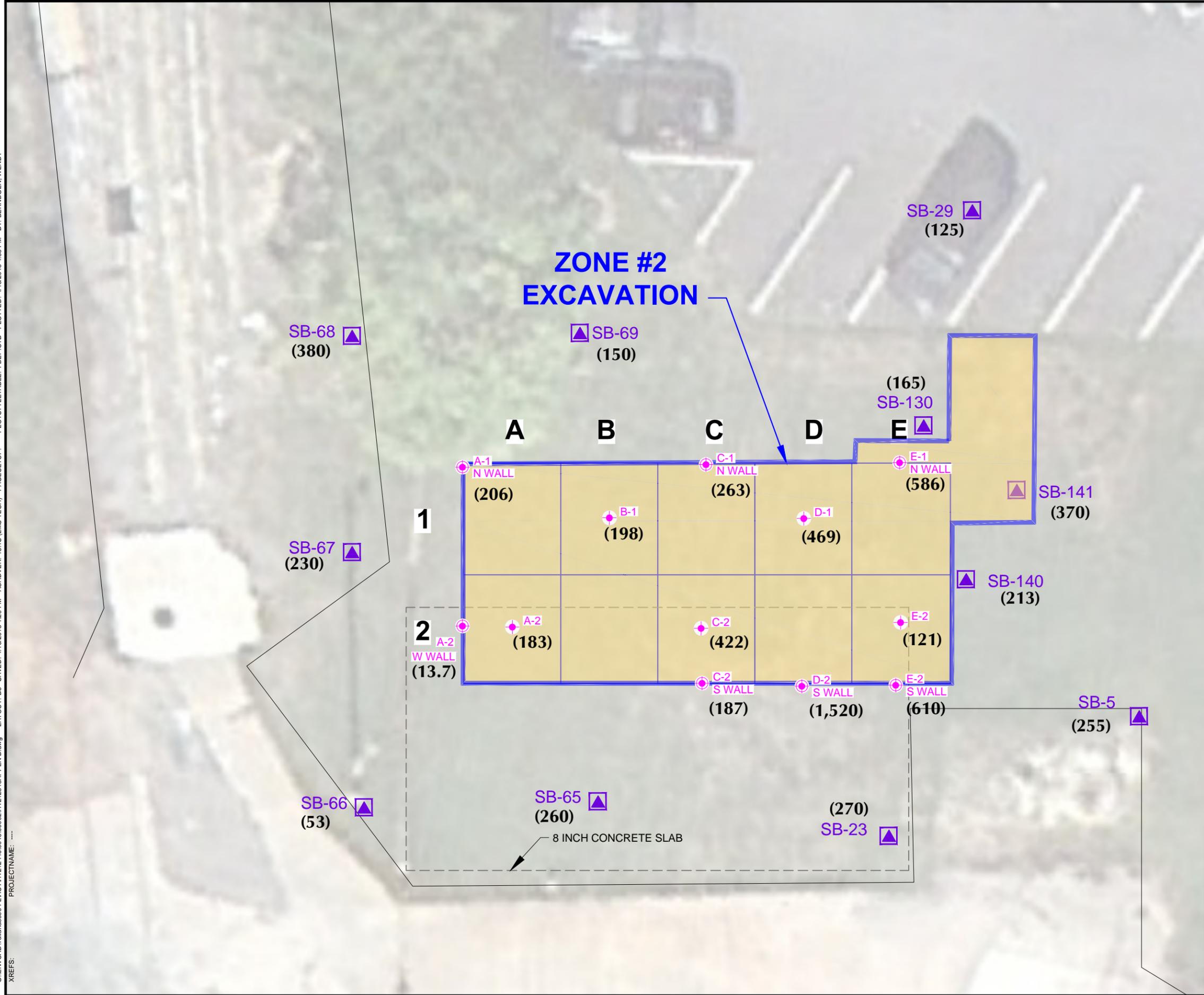
ESTIMATED EXTENT OF EXCAVATION ZONE 1 (0-2 FEET BGS)



FIGURE
B4

CITY:(Reqd) DIV:GROUP:(Reqd) DB:(Reqd) LD:(Opt) PIC:(Opt) PM:(Reqd) TMI:(Opt) LVR:(Opt)ON="OFF"=REF*
 G:\ENV\CAD\Tallahassee-FL\ACT\HT212446\0015\00002\HT212516\APPEN B.dwg LAYOUT: B4 SAVED: 4/16/2015 4:29 PM
 ACADVER: 18.15 (LMS TECH) PAGESETUP: ... PLOTSTYLETABLE: FDEP.CTB PLOTTED: 4/16/2015 4:33 PM BY: BERNDGEN, WENDY
 XREFS: PROJECTNAME: ...

CITY: (Reqd) DIV: (Reqd) DB: (Reqd) LD: (Opt) PIC: (Opt) PM: (Reqd) TM: (Opt) LVR: (Opt) ON: "OFF" REF: G:\ENVCAD\Tallahassee-FL\ACT\T212446\0015\00002\T212516\APPEN B.dwg LAYOUT: B5 SAVED: 4/16/2015 4:29 PM ACADVER: 18.15 (LMS TECH) PLOTSETUP: ... PLOTSTYLETABLE: FDEP.CTB PLOTTED: 4/16/2015 4:33 PM BY: BERNDGEN, WENDY XREFS: PROJECTNAME: ...



SB-68 (380)

ZONE #2 EXCAVATION

SB-69 (150)

SB-29 (125)

(165)
SB-130

A

B

C

D

E

A-1
N WALL
(206)

C-1
N WALL
(263)

E-1
N WALL
(586)

1

B-1
(198)

D-1
(469)

SB-141
(370)

SB-67 (230)

2
A-2
W WALL
(13.7)

A-2
(183)

C-2
(422)

E-2
(121)

SB-140
(213)

C-2
S WALL
(187)

D-2
S WALL
(1,520)

E-2
S WALL
(610)

SB-5
(255)

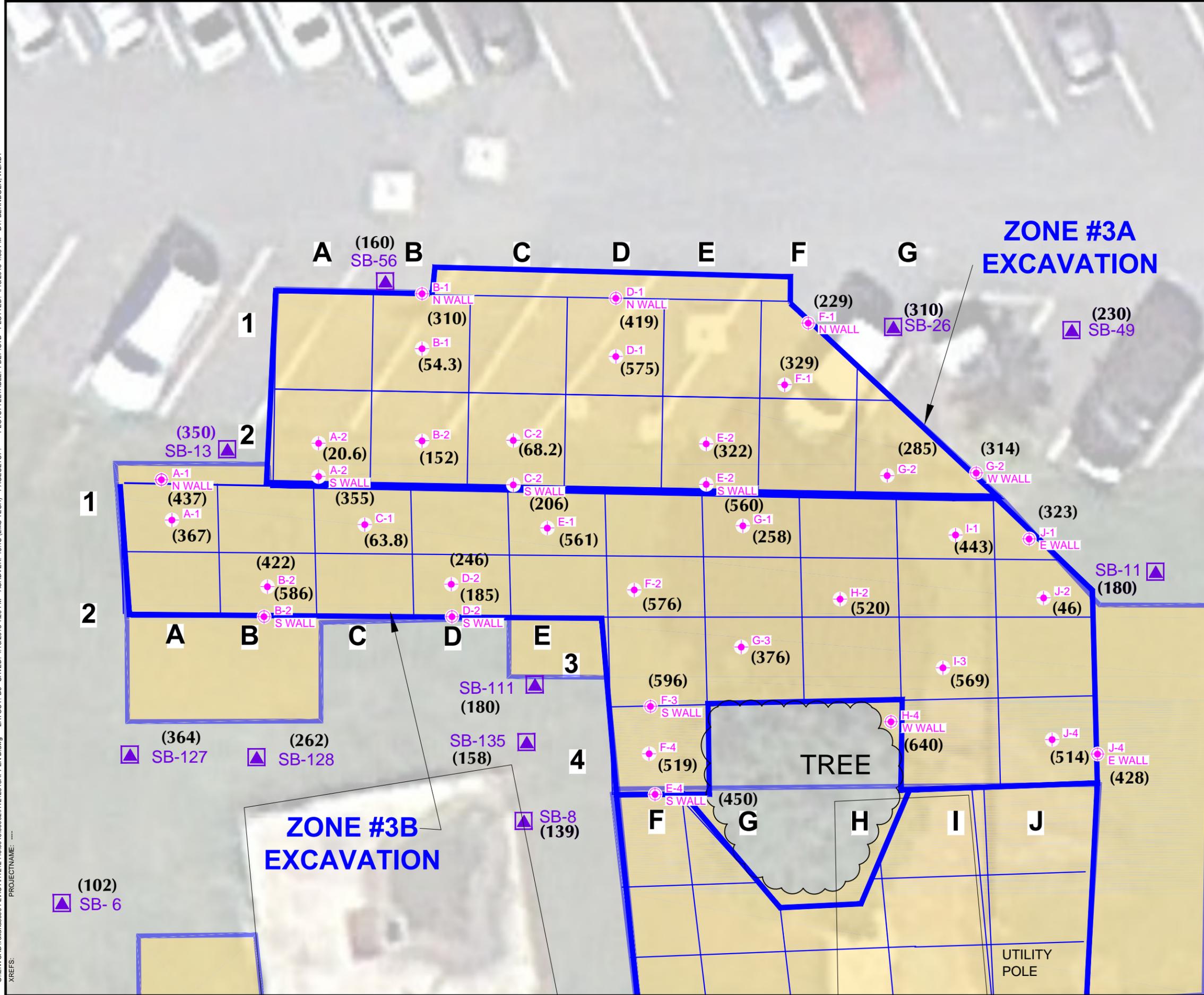
SB-66 (53)

SB-65 (260)

(270)
SB-23

8 INCH CONCRETE SLAB

CITY: (Reqd) DIV: GROUP: (Reqd) DB: (Reqd) LD: (Opt) PIC: (Opt) PM: (Reqd) TM: (Opt) LVR: (Opt) ON: "OFF" REF: G:\ENVCAD\Tallahassee-FL\ACT\T212446\0015\00002\HT1212516\APPEN B.dwg LAYOUT: B6 SAVED: 4/16/2015 4:29 PM ACADVER: 18.15 (LMS TECH) PLOTSETUP: ... PLOTSTYLETABLE: FDEP.CTB PLOTTED: 4/16/2015 4:33 PM BY: BERNDGEN, WENDY XREFS: PROJECTNAME: ...



ZONE #3A EXCAVATION

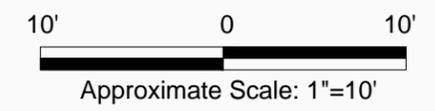
ZONE #3B EXCAVATION

LEGEND:

- ▲ SOIL BORING LOCATION
- CONFIRMATORY SIDE WALL SOIL SAMPLE LOCATION
- ◆ CONFIRMATORY FLOOR SOIL SAMPLE LOCATION
- (370)** LEAD CONCENTRATION IN PARTS PER MILLION 0-2 FEET BELOW GROUND SURFACE (BGS)
- ESTIMATED EXTENT OF EXCAVATION
- BGS BELOW GROUND SURFACE

NOTES:

1. SIDE WALL SAMPLES TAKEN FROM 1-2' BGS RANGE.
2. FLOOR SAMPLES TAKEN FROM 2' BGS.
3. G-2 W WALL SAMPLE IS MISLABELED.



LAFARGE ROAD MARKING
2675 NORTH MARTIN STREET
EAST POINT, GEORGIA

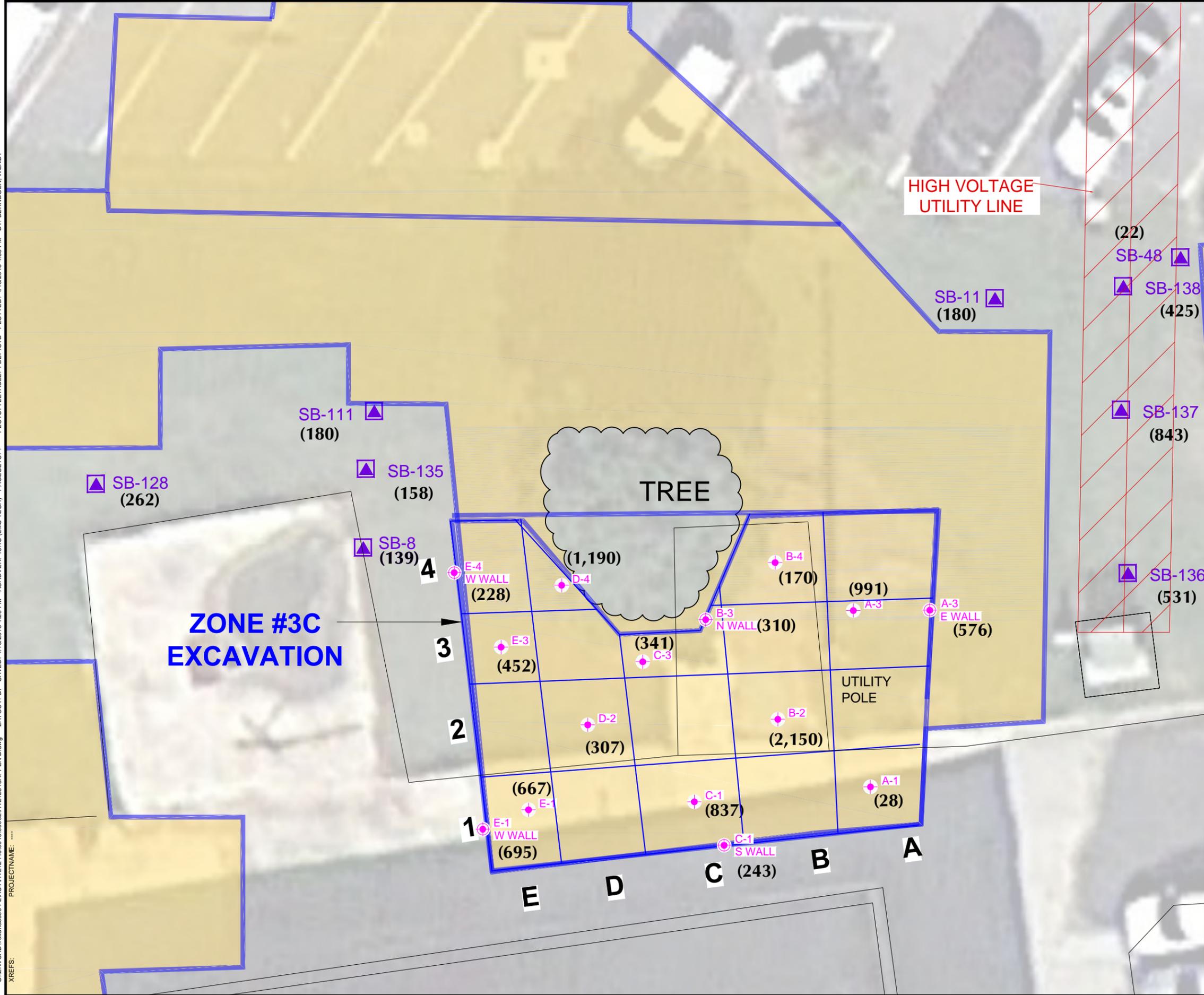
**ESTIMATED EXTENT OF EXCAVATION
ZONE 3A AND 3B (0-2 FEET BGS)**



FIGURE
B6



CITY:(Reqd) DIV:GROUP:(Reqd) DB:(Reqd) LD:(Opt) PIC:(Opt) PM:(Reqd) TM:(Opt) LVR:(Opt)ON="OFF"REF*
 G:\ENV\CAD\Tallahassee-FL\ACT\THT212446\0015\00002\THT212516\APPEN B.dwg LAYOUT: B7. SAVED: 4/16/2015 4:29 PM
 ACADVER: 18.15 (LMS TECH) PAGES: 87. PLOTSTYLETABLE: FDEP.CTB PLOTTED: 4/16/2015 4:33 PM BY: BERNDGEN, WENDY

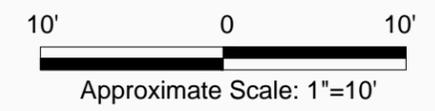


LEGEND:

- SOIL BORING LOCATION
- CONFIRMATORY SIDE WALL SOIL SAMPLE LOCATION
- CONFIRMATORY FLOOR SOIL SAMPLE LOCATION
- (370)** LEAD CONCENTRATION IN PARTS PER MILLION 0-2 FEET BELOW GROUND SURFACE (BGS)
- ESTIMATED EXTENT OF EXCAVATION
- BGS BELOW GROUND SURFACE

NOTES:

1. SIDE WALL SAMPLES TAKEN FROM 1-2' BGS RANGE.
2. FLOOR SAMPLES TAKEN FROM 2' BGS.



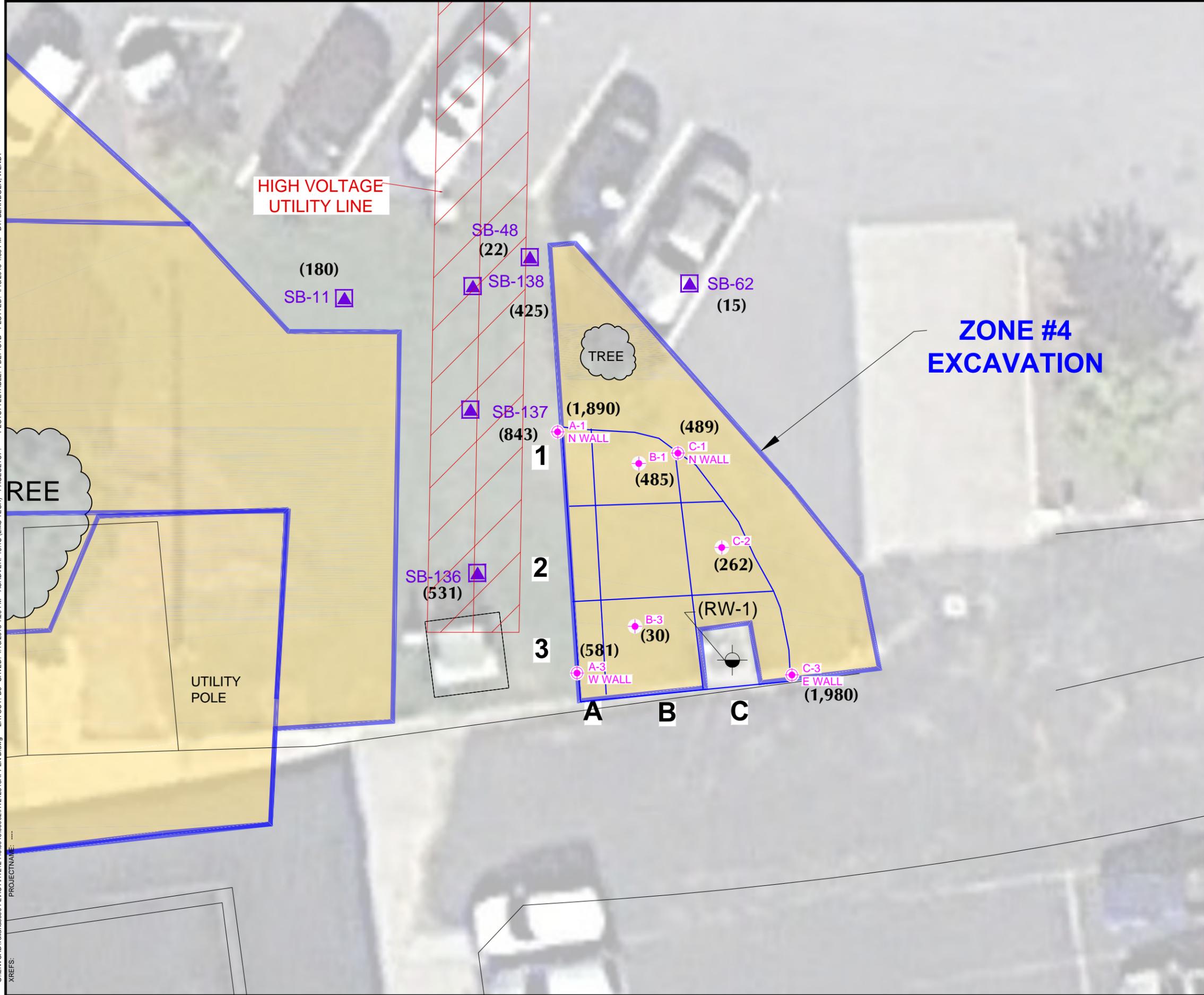
LAFARGE ROAD MARKING
 2675 NORTH MARTIN STREET
 EAST POINT, GEORGIA

**ESTIMATED EXTENT OF EXCAVATION
 ZONE 3C (0-2 FEET BGS)**

ARCADIS

FIGURE
B7

CITY:(Reqd) DIV:GROUP:(Reqd) DB:(Reqd) LD:(Opt) PIC:(Opt) PM:(Reqd) TM:(Opt) LVR:(Opt)ON="OFF"=REF*
 G:\ENV\CAD\Tallahassee-FL\ACT\THT212446\0015\00002\THT212516\APPEN B.dwg LAYOUT: B8 SAVED: 4/16/2015 4:29 PM
 ACADVER: 18.15 (LMS TECH) PAGESETUP: ... PLOTSTYLETABLE: FDEP.CTB PLOTTED: 4/16/2015 4:33 PM BY: BERNDGEN, WENDY
 XREFS: PROJECTNAME: ...



LEGEND:

- RECOVERY WELL
- (RW-1) RECOVERY WELL NOT IN SERVICE
- EXISTING OBSERVATION WELL
- EXISTING SOIL VAPOR EXTRACTION WELL
- EXISTING AIR SPARGE WELL
- SOIL BORING LOCATION
- CONFIRMATORY SIDE WALL SOIL SAMPLE LOCATION
- CONFIRMATORY FLOOR SOIL SAMPLE LOCATION
- (22)** LEAD CONCENTRATION IN PARTS PER MILLION 0-2 FEET BELOW GROUND SURFACE (BGS)
- ESTIMATED EXTENT OF EXCAVATION
- BGS BELOW GROUND SURFACE

NOTES:

- SIDE WALL SAMPLES TAKEN FROM 1-2' BGS RANGE.
- FLOOR SAMPLES TAKEN FROM 2' BGS.
- SB-136, AB-137, AND SB-138 WERE COLLECTED FROM 0-05' BGS DUE TO UNDERGROUND ELECTRICAL.



LAFARGE ROAD MARKING
2675 NORTH MARTIN STREET
EAST POINT, GEORGIA

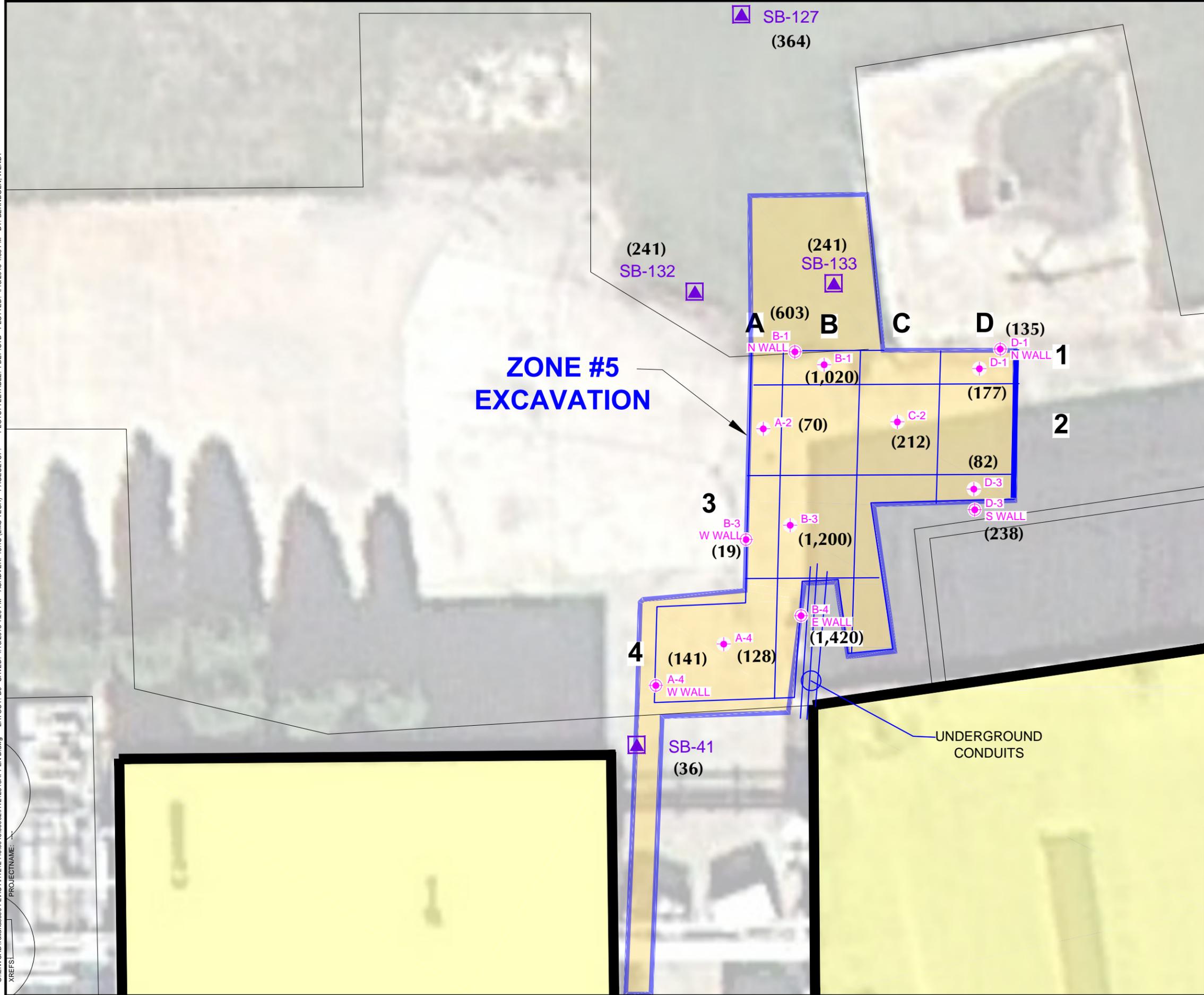
**ESTIMATED EXTENT OF EXCAVATION
ZONE 4 (0-2 FEET BGS)**

ARCADIS

FIGURE
B8

CITY:(Reqd) DIV:GROUP:(Reqd) DB:(Reqd) LD:(Opt) PIC:(Opt) PM:(Reqd) TMI:(Opt) LVR:(Opt)ON="OFF"REF*
 G:\ENV\CAD\Tallahassee-FL\ACT\T212446\0015\00002\HT212516\APPEN B.dwg LAYOUT: B9 SAVED: 4/16/2015 4:29 PM
 ACADVER: 18.15 (LMS TECH) PLOTSTYLETABLE: FDEP.CTB PLOTTED: 4/16/2015 4:33 PM BY: BERNDGEN, WENDY
 XREFS PROJECTNAME:

ZONE #5 EXCAVATION



LEGEND:

- SOIL BORING LOCATION
- CONFIRMATORY SIDE WALL SOIL SAMPLE LOCATION
- CONFIRMATORY FLOOR SOIL SAMPLE LOCATION
- (370)** LEAD CONCENTRATION IN PARTS PER MILLION 0-2 FEET BELOW GROUND SURFACE (BGS)
- ESTIMATED EXTENT OF EXCAVATION

BGS BELOW GROUND SURFACE

NOTES:

1. SIDE WALL SAMPLES TAKEN FROM 1-2' BGS RANGE.
2. FLOOR SAMPLES TAKEN FROM 2' BGS.

10' 0 10'

Approximate Scale: 1"=10'

LAFARGE ROAD MARKING
2675 NORTH MARTIN STREET
EAST POINT, GEORGIA

**ESTIMATED EXTENT OF EXCAVATION
ZONE 5 (0-2 FEET BGS)**

ARCADIS

FIGURE
B9



Appendix C

Laboratory Analytical Reports



March 03, 2015

Greg Sitomer
Arcadis
1000 Cobb Place Blvd., Bldg. 500-A
Kennesaw GA 30144

TEL: (770) 431-8666
FAX: (770) 435-2666

RE: Lafarge East Point

Dear Greg Sitomer:

Order No: 1502H55

Analytical Environmental Services, Inc. received 16 samples on 2/20/2015 1:50:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/14-06/30/15.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/15.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Chantelle Kanhai
Project Manager

Client: Arcadis
Project: Lafarge East Point
Lab ID: 1502H55

Case Narrative

Volatiles Organic Compounds Analysis by Method 8260B:

Due to sample matrix, sample 1502H55-003, -004, -009 and -015 required dilution during preparation and/or analysis resulting in elevated reporting limits.

Client: Arcadis	Client Sample ID: DPE-118(021815)
Project Name: Lafarge East Point	Collection Date: 2/18/2015 10:50:00 AM
Lab ID: 1502H55-001	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	203707	1	02/26/2015 14:30	TH
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	203707	1	02/26/2015 14:30	TH
1,1,2-Trichloroethane	BRL	5.0		ug/L	203707	1	02/26/2015 14:30	TH
1,1-Dichloroethane	BRL	5.0		ug/L	203707	1	02/26/2015 14:30	TH
1,1-Dichloroethene	BRL	5.0		ug/L	203707	1	02/26/2015 14:30	TH
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	203707	1	02/26/2015 14:30	TH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	203707	1	02/26/2015 14:30	TH
1,2-Dibromoethane	BRL	5.0		ug/L	203707	1	02/26/2015 14:30	TH
1,2-Dichlorobenzene	BRL	5.0		ug/L	203707	1	02/26/2015 14:30	TH
1,2-Dichloroethane	BRL	5.0		ug/L	203707	1	02/26/2015 14:30	TH
1,2-Dichloropropane	BRL	5.0		ug/L	203707	1	02/26/2015 14:30	TH
1,3-Dichlorobenzene	BRL	5.0		ug/L	203707	1	02/26/2015 14:30	TH
1,4-Dichlorobenzene	BRL	5.0		ug/L	203707	1	02/26/2015 14:30	TH
2-Butanone	BRL	50		ug/L	203707	1	02/26/2015 14:30	TH
2-Hexanone	BRL	10		ug/L	203707	1	02/26/2015 14:30	TH
4-Methyl-2-pentanone	BRL	10		ug/L	203707	1	02/26/2015 14:30	TH
Acetone	BRL	50		ug/L	203707	1	02/26/2015 14:30	TH
Benzene	BRL	5.0		ug/L	203707	1	02/26/2015 14:30	TH
Bromodichloromethane	BRL	5.0		ug/L	203707	1	02/26/2015 14:30	TH
Bromoform	BRL	5.0		ug/L	203707	1	02/26/2015 14:30	TH
Bromomethane	BRL	5.0		ug/L	203707	1	02/26/2015 14:30	TH
Carbon disulfide	BRL	5.0		ug/L	203707	1	02/26/2015 14:30	TH
Carbon tetrachloride	BRL	5.0		ug/L	203707	1	02/26/2015 14:30	TH
Chlorobenzene	BRL	5.0		ug/L	203707	1	02/26/2015 14:30	TH
Chloroethane	BRL	10		ug/L	203707	1	02/26/2015 14:30	TH
Chloroform	BRL	5.0		ug/L	203707	1	02/26/2015 14:30	TH
Chloromethane	BRL	10		ug/L	203707	1	02/26/2015 14:30	TH
cis-1,2-Dichloroethene	63	5.0		ug/L	203707	1	02/26/2015 14:30	TH
cis-1,3-Dichloropropene	BRL	5.0		ug/L	203707	1	02/26/2015 14:30	TH
Cyclohexane	BRL	5.0		ug/L	203707	1	02/26/2015 14:30	TH
Dibromochloromethane	BRL	5.0		ug/L	203707	1	02/26/2015 14:30	TH
Dichlorodifluoromethane	BRL	10		ug/L	203707	1	02/26/2015 14:30	TH
Ethylbenzene	BRL	5.0		ug/L	203707	1	02/26/2015 14:30	TH
Freon-113	BRL	10		ug/L	203707	1	02/26/2015 14:30	TH
Isopropylbenzene	BRL	5.0		ug/L	203707	1	02/26/2015 14:30	TH
m,p-Xylene	BRL	5.0		ug/L	203707	1	02/26/2015 14:30	TH
Methyl acetate	BRL	5.0		ug/L	203707	1	02/26/2015 14:30	TH
Methyl tert-butyl ether	BRL	5.0		ug/L	203707	1	02/26/2015 14:30	TH
Methylcyclohexane	BRL	5.0		ug/L	203707	1	02/26/2015 14:30	TH
Methylene chloride	BRL	5.0		ug/L	203707	1	02/26/2015 14:30	TH
o-Xylene	BRL	5.0		ug/L	203707	1	02/26/2015 14:30	TH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: DPE-118(021815)
Project Name: Lafarge East Point	Collection Date: 2/18/2015 10:50:00 AM
Lab ID: 1502H55-001	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5030B)			
Styrene	BRL	5.0		ug/L	203707	1	02/26/2015 14:30	TH
Tetrachloroethene	BRL	5.0		ug/L	203707	1	02/26/2015 14:30	TH
Toluene	BRL	5.0		ug/L	203707	1	02/26/2015 14:30	TH
trans-1,2-Dichloroethene	BRL	5.0		ug/L	203707	1	02/26/2015 14:30	TH
trans-1,3-Dichloropropene	BRL	5.0		ug/L	203707	1	02/26/2015 14:30	TH
Trichloroethene	33	5.0		ug/L	203707	1	02/26/2015 14:30	TH
Trichlorofluoromethane	BRL	5.0		ug/L	203707	1	02/26/2015 14:30	TH
Vinyl chloride	BRL	2.0		ug/L	203707	1	02/26/2015 14:30	TH
Surr: 4-Bromofluorobenzene	89.2	70.6-123		%REC	203707	1	02/26/2015 14:30	TH
Surr: Dibromofluoromethane	118	78.7-124		%REC	203707	1	02/26/2015 14:30	TH
Surr: Toluene-d8	99.9	81.3-120		%REC	203707	1	02/26/2015 14:30	TH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 3-Mar-15

Client: Arcadis	Client Sample ID: DPE-408(021815)
Project Name: Lafarge East Point	Collection Date: 2/18/2015 10:55:00 AM
Lab ID: 1502H55-002	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	203707	1	02/26/2015 16:03	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	203707	1	02/26/2015 16:03	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	203707	1	02/26/2015 16:03	NP
1,1-Dichloroethane	BRL	5.0		ug/L	203707	1	02/26/2015 16:03	NP
1,1-Dichloroethene	BRL	5.0		ug/L	203707	1	02/26/2015 16:03	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	203707	1	02/26/2015 16:03	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	203707	1	02/26/2015 16:03	NP
1,2-Dibromoethane	BRL	5.0		ug/L	203707	1	02/26/2015 16:03	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	203707	1	02/26/2015 16:03	NP
1,2-Dichloroethane	BRL	5.0		ug/L	203707	1	02/26/2015 16:03	NP
1,2-Dichloropropane	BRL	5.0		ug/L	203707	1	02/26/2015 16:03	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	203707	1	02/26/2015 16:03	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	203707	1	02/26/2015 16:03	NP
2-Butanone	BRL	50		ug/L	203707	1	02/26/2015 16:03	NP
2-Hexanone	24	10		ug/L	203707	1	02/26/2015 16:03	NP
4-Methyl-2-pentanone	21	10		ug/L	203707	1	02/26/2015 16:03	NP
Acetone	BRL	50		ug/L	203707	1	02/26/2015 16:03	NP
Benzene	190	5.0		ug/L	203707	1	02/26/2015 16:03	NP
Bromodichloromethane	BRL	5.0		ug/L	203707	1	02/26/2015 16:03	NP
Bromoform	BRL	5.0		ug/L	203707	1	02/26/2015 16:03	NP
Bromomethane	BRL	5.0		ug/L	203707	1	02/26/2015 16:03	NP
Carbon disulfide	BRL	5.0		ug/L	203707	1	02/26/2015 16:03	NP
Carbon tetrachloride	BRL	5.0		ug/L	203707	1	02/26/2015 16:03	NP
Chlorobenzene	BRL	5.0		ug/L	203707	1	02/26/2015 16:03	NP
Chloroethane	BRL	10		ug/L	203707	1	02/26/2015 16:03	NP
Chloroform	BRL	5.0		ug/L	203707	1	02/26/2015 16:03	NP
Chloromethane	BRL	10		ug/L	203707	1	02/26/2015 16:03	NP
cis-1,2-Dichloroethene	660	500		ug/L	203707	100	02/26/2015 00:48	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	203707	1	02/26/2015 16:03	NP
Cyclohexane	67	5.0		ug/L	203707	1	02/26/2015 16:03	NP
Dibromochloromethane	BRL	5.0		ug/L	203707	1	02/26/2015 16:03	NP
Dichlorodifluoromethane	BRL	10		ug/L	203707	1	02/26/2015 16:03	NP
Ethylbenzene	340	200		ug/L	203707	100	02/26/2015 00:48	NP
Freon-113	BRL	10		ug/L	203707	1	02/26/2015 16:03	NP
Isopropylbenzene	BRL	5.0		ug/L	203707	1	02/26/2015 16:03	NP
m,p-Xylene	1500	500		ug/L	203707	100	02/26/2015 00:48	NP
Methyl acetate	BRL	5.0		ug/L	203707	1	02/26/2015 16:03	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	203707	1	02/26/2015 16:03	NP
Methylcyclohexane	42	5.0		ug/L	203707	1	02/26/2015 16:03	NP
Methylene chloride	BRL	5.0		ug/L	203707	1	02/26/2015 16:03	NP
o-Xylene	440	200		ug/L	203707	100	02/26/2015 00:48	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: DPE-408(021815)
Project Name: Lafarge East Point	Collection Date: 2/18/2015 10:55:00 AM
Lab ID: 1502H55-002	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5030B)			
Styrene	BRL	5.0		ug/L	203707	1	02/26/2015 16:03	NP
Tetrachloroethene	BRL	5.0		ug/L	203707	1	02/26/2015 16:03	NP
Toluene	4100	500		ug/L	203707	100	02/26/2015 00:48	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	203707	1	02/26/2015 16:03	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	203707	1	02/26/2015 16:03	NP
Trichloroethene	19	5.0		ug/L	203707	1	02/26/2015 16:03	NP
Trichlorofluoromethane	BRL	5.0		ug/L	203707	1	02/26/2015 16:03	NP
Vinyl chloride	5.4	2.0		ug/L	203707	1	02/26/2015 16:03	NP
Surr: 4-Bromofluorobenzene	95.5	70.6-123		%REC	203707	100	02/26/2015 00:48	NP
Surr: 4-Bromofluorobenzene	102	70.6-123		%REC	203707	1	02/26/2015 16:03	NP
Surr: Dibromofluoromethane	97.4	78.7-124		%REC	203707	100	02/26/2015 00:48	NP
Surr: Dibromofluoromethane	99.1	78.7-124		%REC	203707	1	02/26/2015 16:03	NP
Surr: Toluene-d8	96.7	81.3-120		%REC	203707	100	02/26/2015 00:48	NP
Surr: Toluene-d8	98.5	81.3-120		%REC	203707	1	02/26/2015 16:03	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 3-Mar-15

Client: Arcadis	Client Sample ID: DPE-305(021815)
Project Name: Lafarge East Point	Collection Date: 2/18/2015 11:00:00 AM
Lab ID: 1502H55-003	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	2500		ug/L	203707	500	02/25/2015 23:38	NP
1,1,2,2-Tetrachloroethane	BRL	2500		ug/L	203707	500	02/25/2015 23:38	NP
1,1,2-Trichloroethane	BRL	2500		ug/L	203707	500	02/25/2015 23:38	NP
1,1-Dichloroethane	BRL	2500		ug/L	203707	500	02/25/2015 23:38	NP
1,1-Dichloroethene	BRL	2500		ug/L	203707	500	02/25/2015 23:38	NP
1,2,4-Trichlorobenzene	BRL	2500		ug/L	203707	500	02/25/2015 23:38	NP
1,2-Dibromo-3-chloropropane	BRL	2500		ug/L	203707	500	02/25/2015 23:38	NP
1,2-Dibromoethane	BRL	2500		ug/L	203707	500	02/25/2015 23:38	NP
1,2-Dichlorobenzene	BRL	2500		ug/L	203707	500	02/25/2015 23:38	NP
1,2-Dichloroethane	BRL	2500		ug/L	203707	500	02/25/2015 23:38	NP
1,2-Dichloropropane	BRL	2500		ug/L	203707	500	02/25/2015 23:38	NP
1,3-Dichlorobenzene	BRL	2500		ug/L	203707	500	02/25/2015 23:38	NP
1,4-Dichlorobenzene	BRL	2500		ug/L	203707	500	02/25/2015 23:38	NP
2-Butanone	BRL	25000		ug/L	203707	500	02/25/2015 23:38	NP
2-Hexanone	BRL	5000		ug/L	203707	500	02/25/2015 23:38	NP
4-Methyl-2-pentanone	BRL	5000		ug/L	203707	500	02/25/2015 23:38	NP
Acetone	BRL	25000		ug/L	203707	500	02/25/2015 23:38	NP
Benzene	BRL	2500		ug/L	203707	500	02/25/2015 23:38	NP
Bromodichloromethane	BRL	2500		ug/L	203707	500	02/25/2015 23:38	NP
Bromoform	BRL	2500		ug/L	203707	500	02/25/2015 23:38	NP
Bromomethane	BRL	2500		ug/L	203707	500	02/25/2015 23:38	NP
Carbon disulfide	BRL	2500		ug/L	203707	500	02/25/2015 23:38	NP
Carbon tetrachloride	BRL	2500		ug/L	203707	500	02/25/2015 23:38	NP
Chlorobenzene	BRL	2500		ug/L	203707	500	02/25/2015 23:38	NP
Chloroethane	BRL	5000		ug/L	203707	500	02/25/2015 23:38	NP
Chloroform	BRL	2500		ug/L	203707	500	02/25/2015 23:38	NP
Chloromethane	BRL	5000		ug/L	203707	500	02/25/2015 23:38	NP
cis-1,2-Dichloroethene	BRL	2500		ug/L	203707	500	02/25/2015 23:38	NP
cis-1,3-Dichloropropene	BRL	2500		ug/L	203707	500	02/25/2015 23:38	NP
Cyclohexane	BRL	2500		ug/L	203707	500	02/25/2015 23:38	NP
Dibromochloromethane	BRL	2500		ug/L	203707	500	02/25/2015 23:38	NP
Dichlorodifluoromethane	BRL	5000		ug/L	203707	500	02/25/2015 23:38	NP
Ethylbenzene	BRL	2500		ug/L	203707	500	02/25/2015 23:38	NP
Freon-113	BRL	5000		ug/L	203707	500	02/25/2015 23:38	NP
Isopropylbenzene	BRL	2500		ug/L	203707	500	02/25/2015 23:38	NP
m,p-Xylene	11000	2500		ug/L	203707	500	02/25/2015 23:38	NP
Methyl acetate	BRL	2500		ug/L	203707	500	02/25/2015 23:38	NP
Methyl tert-butyl ether	BRL	2500		ug/L	203707	500	02/25/2015 23:38	NP
Methylcyclohexane	BRL	2500		ug/L	203707	500	02/25/2015 23:38	NP
Methylene chloride	BRL	2500		ug/L	203707	500	02/25/2015 23:38	NP
o-Xylene	2600	2500		ug/L	203707	500	02/25/2015 23:38	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: DPE-305(021815)
Project Name: Lafarge East Point	Collection Date: 2/18/2015 11:00:00 AM
Lab ID: 1502H55-003	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	2500		ug/L	203707	500	02/25/2015 23:38	NP
Tetrachloroethene	BRL	2500		ug/L	203707	500	02/25/2015 23:38	NP
Toluene	27000	2500		ug/L	203707	500	02/25/2015 23:38	NP
trans-1,2-Dichloroethene	BRL	2500		ug/L	203707	500	02/25/2015 23:38	NP
trans-1,3-Dichloropropene	BRL	2500		ug/L	203707	500	02/25/2015 23:38	NP
Trichloroethene	BRL	2500		ug/L	203707	500	02/25/2015 23:38	NP
Trichlorofluoromethane	BRL	2500		ug/L	203707	500	02/25/2015 23:38	NP
Vinyl chloride	BRL	1000		ug/L	203707	500	02/25/2015 23:38	NP
Surr: 4-Bromofluorobenzene	98.5	70.6-123		%REC	203707	500	02/25/2015 23:38	NP
Surr: Dibromofluoromethane	97.1	78.7-124		%REC	203707	500	02/25/2015 23:38	NP
Surr: Toluene-d8	95.9	81.3-120		%REC	203707	500	02/25/2015 23:38	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: RW-2(021815)
Project Name: Lafarge East Point	Collection Date: 2/18/2015 11:10:00 AM
Lab ID: 1502H55-004	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	250		ug/L	203707	50	02/26/2015 03:09	NP
1,1,2,2-Tetrachloroethane	BRL	250		ug/L	203707	50	02/26/2015 03:09	NP
1,1,2-Trichloroethane	BRL	250		ug/L	203707	50	02/26/2015 03:09	NP
1,1-Dichloroethane	BRL	250		ug/L	203707	50	02/26/2015 03:09	NP
1,1-Dichloroethene	BRL	250		ug/L	203707	50	02/26/2015 03:09	NP
1,2,4-Trichlorobenzene	BRL	250		ug/L	203707	50	02/26/2015 03:09	NP
1,2-Dibromo-3-chloropropane	BRL	250		ug/L	203707	50	02/26/2015 03:09	NP
1,2-Dibromoethane	BRL	250		ug/L	203707	50	02/26/2015 03:09	NP
1,2-Dichlorobenzene	BRL	250		ug/L	203707	50	02/26/2015 03:09	NP
1,2-Dichloroethane	BRL	250		ug/L	203707	50	02/26/2015 03:09	NP
1,2-Dichloropropane	BRL	250		ug/L	203707	50	02/26/2015 03:09	NP
1,3-Dichlorobenzene	BRL	250		ug/L	203707	50	02/26/2015 03:09	NP
1,4-Dichlorobenzene	BRL	250		ug/L	203707	50	02/26/2015 03:09	NP
2-Butanone	BRL	2500		ug/L	203707	50	02/26/2015 03:09	NP
2-Hexanone	BRL	500		ug/L	203707	50	02/26/2015 03:09	NP
4-Methyl-2-pentanone	BRL	500		ug/L	203707	50	02/26/2015 03:09	NP
Acetone	BRL	2500		ug/L	203707	50	02/26/2015 03:09	NP
Benzene	BRL	250		ug/L	203707	50	02/26/2015 03:09	NP
Bromodichloromethane	BRL	250		ug/L	203707	50	02/26/2015 03:09	NP
Bromoform	BRL	250		ug/L	203707	50	02/26/2015 03:09	NP
Bromomethane	BRL	250		ug/L	203707	50	02/26/2015 03:09	NP
Carbon disulfide	BRL	250		ug/L	203707	50	02/26/2015 03:09	NP
Carbon tetrachloride	BRL	250		ug/L	203707	50	02/26/2015 03:09	NP
Chlorobenzene	BRL	250		ug/L	203707	50	02/26/2015 03:09	NP
Chloroethane	BRL	500		ug/L	203707	50	02/26/2015 03:09	NP
Chloroform	BRL	250		ug/L	203707	50	02/26/2015 03:09	NP
Chloromethane	BRL	500		ug/L	203707	50	02/26/2015 03:09	NP
cis-1,2-Dichloroethene	2000	250		ug/L	203707	50	02/26/2015 03:09	NP
cis-1,3-Dichloropropene	BRL	250		ug/L	203707	50	02/26/2015 03:09	NP
Cyclohexane	BRL	250		ug/L	203707	50	02/26/2015 03:09	NP
Dibromochloromethane	BRL	250		ug/L	203707	50	02/26/2015 03:09	NP
Dichlorodifluoromethane	BRL	500		ug/L	203707	50	02/26/2015 03:09	NP
Ethylbenzene	280	250		ug/L	203707	50	02/26/2015 03:09	NP
Freon-113	BRL	500		ug/L	203707	50	02/26/2015 03:09	NP
Isopropylbenzene	BRL	250		ug/L	203707	50	02/26/2015 03:09	NP
m,p-Xylene	1400	250		ug/L	203707	50	02/26/2015 03:09	NP
Methyl acetate	BRL	250		ug/L	203707	50	02/26/2015 03:09	NP
Methyl tert-butyl ether	BRL	250		ug/L	203707	50	02/26/2015 03:09	NP
Methylcyclohexane	BRL	250		ug/L	203707	50	02/26/2015 03:09	NP
Methylene chloride	BRL	250		ug/L	203707	50	02/26/2015 03:09	NP
o-Xylene	460	250		ug/L	203707	50	02/26/2015 03:09	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: RW-2(021815)
Project Name: Lafarge East Point	Collection Date: 2/18/2015 11:10:00 AM
Lab ID: 1502H55-004	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5030B)			
Styrene	BRL	250		ug/L	203707	50	02/26/2015 03:09	NP
Tetrachloroethene	BRL	250		ug/L	203707	50	02/26/2015 03:09	NP
Toluene	8900	250		ug/L	203707	50	02/26/2015 03:09	NP
trans-1,2-Dichloroethene	BRL	250		ug/L	203707	50	02/26/2015 03:09	NP
trans-1,3-Dichloropropene	BRL	250		ug/L	203707	50	02/26/2015 03:09	NP
Trichloroethene	BRL	250		ug/L	203707	50	02/26/2015 03:09	NP
Trichlorofluoromethane	BRL	250		ug/L	203707	50	02/26/2015 03:09	NP
Vinyl chloride	420	100		ug/L	203707	50	02/26/2015 03:09	NP
Surr: 4-Bromofluorobenzene	96.4	70.6-123		%REC	203707	50	02/26/2015 03:09	NP
Surr: Dibromofluoromethane	99.5	78.7-124		%REC	203707	50	02/26/2015 03:09	NP
Surr: Toluene-d8	96.5	81.3-120		%REC	203707	50	02/26/2015 03:09	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: RW-8(021815)
Project Name: Lafarge East Point	Collection Date: 2/18/2015 11:20:00 AM
Lab ID: 1502H55-005	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	203707	1	02/26/2015 12:51	TH
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	203707	1	02/26/2015 12:51	TH
1,1,2-Trichloroethane	BRL	5.0		ug/L	203707	1	02/26/2015 12:51	TH
1,1-Dichloroethane	BRL	5.0		ug/L	203707	1	02/26/2015 12:51	TH
1,1-Dichloroethene	BRL	5.0		ug/L	203707	1	02/26/2015 12:51	TH
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	203707	1	02/26/2015 12:51	TH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	203707	1	02/26/2015 12:51	TH
1,2-Dibromoethane	BRL	5.0		ug/L	203707	1	02/26/2015 12:51	TH
1,2-Dichlorobenzene	BRL	5.0		ug/L	203707	1	02/26/2015 12:51	TH
1,2-Dichloroethane	BRL	5.0		ug/L	203707	1	02/26/2015 12:51	TH
1,2-Dichloropropane	BRL	5.0		ug/L	203707	1	02/26/2015 12:51	TH
1,3-Dichlorobenzene	BRL	5.0		ug/L	203707	1	02/26/2015 12:51	TH
1,4-Dichlorobenzene	BRL	5.0		ug/L	203707	1	02/26/2015 12:51	TH
2-Butanone	BRL	50		ug/L	203707	1	02/26/2015 12:51	TH
2-Hexanone	BRL	10		ug/L	203707	1	02/26/2015 12:51	TH
4-Methyl-2-pentanone	BRL	10		ug/L	203707	1	02/26/2015 12:51	TH
Acetone	BRL	50		ug/L	203707	1	02/26/2015 12:51	TH
Benzene	BRL	5.0		ug/L	203707	1	02/26/2015 12:51	TH
Bromodichloromethane	BRL	5.0		ug/L	203707	1	02/26/2015 12:51	TH
Bromoform	BRL	5.0		ug/L	203707	1	02/26/2015 12:51	TH
Bromomethane	BRL	5.0		ug/L	203707	1	02/26/2015 12:51	TH
Carbon disulfide	BRL	5.0		ug/L	203707	1	02/26/2015 12:51	TH
Carbon tetrachloride	BRL	5.0		ug/L	203707	1	02/26/2015 12:51	TH
Chlorobenzene	BRL	5.0		ug/L	203707	1	02/26/2015 12:51	TH
Chloroethane	BRL	10		ug/L	203707	1	02/26/2015 12:51	TH
Chloroform	BRL	5.0		ug/L	203707	1	02/26/2015 12:51	TH
Chloromethane	BRL	10		ug/L	203707	1	02/26/2015 12:51	TH
cis-1,2-Dichloroethene	630	50		ug/L	203707	10	02/26/2015 14:05	TH
cis-1,3-Dichloropropene	BRL	5.0		ug/L	203707	1	02/26/2015 12:51	TH
Cyclohexane	BRL	5.0		ug/L	203707	1	02/26/2015 12:51	TH
Dibromochloromethane	BRL	5.0		ug/L	203707	1	02/26/2015 12:51	TH
Dichlorodifluoromethane	BRL	10		ug/L	203707	1	02/26/2015 12:51	TH
Ethylbenzene	BRL	5.0		ug/L	203707	1	02/26/2015 12:51	TH
Freon-113	BRL	10		ug/L	203707	1	02/26/2015 12:51	TH
Isopropylbenzene	BRL	5.0		ug/L	203707	1	02/26/2015 12:51	TH
m,p-Xylene	BRL	5.0		ug/L	203707	1	02/26/2015 12:51	TH
Methyl acetate	BRL	5.0		ug/L	203707	1	02/26/2015 12:51	TH
Methyl tert-butyl ether	BRL	5.0		ug/L	203707	1	02/26/2015 12:51	TH
Methylcyclohexane	BRL	5.0		ug/L	203707	1	02/26/2015 12:51	TH
Methylene chloride	BRL	5.0		ug/L	203707	1	02/26/2015 12:51	TH
o-Xylene	BRL	5.0		ug/L	203707	1	02/26/2015 12:51	TH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: MW-35(021815)
Project Name: Lafarge East Point	Collection Date: 2/18/2015 11:40:00 AM
Lab ID: 1502H55-006	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	203707	1	02/26/2015 12:22	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	203707	1	02/26/2015 12:22	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	203707	1	02/26/2015 12:22	NP
1,1-Dichloroethane	BRL	5.0		ug/L	203707	1	02/26/2015 12:22	NP
1,1-Dichloroethene	BRL	5.0		ug/L	203707	1	02/26/2015 12:22	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	203707	1	02/26/2015 12:22	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	203707	1	02/26/2015 12:22	NP
1,2-Dibromoethane	BRL	5.0		ug/L	203707	1	02/26/2015 12:22	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	203707	1	02/26/2015 12:22	NP
1,2-Dichloroethane	BRL	5.0		ug/L	203707	1	02/26/2015 12:22	NP
1,2-Dichloropropane	BRL	5.0		ug/L	203707	1	02/26/2015 12:22	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	203707	1	02/26/2015 12:22	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	203707	1	02/26/2015 12:22	NP
2-Butanone	BRL	50		ug/L	203707	1	02/26/2015 12:22	NP
2-Hexanone	BRL	10		ug/L	203707	1	02/26/2015 12:22	NP
4-Methyl-2-pentanone	BRL	10		ug/L	203707	1	02/26/2015 12:22	NP
Acetone	BRL	50		ug/L	203707	1	02/26/2015 12:22	NP
Benzene	BRL	5.0		ug/L	203707	1	02/26/2015 12:22	NP
Bromodichloromethane	BRL	5.0		ug/L	203707	1	02/26/2015 12:22	NP
Bromoform	BRL	5.0		ug/L	203707	1	02/26/2015 12:22	NP
Bromomethane	BRL	5.0		ug/L	203707	1	02/26/2015 12:22	NP
Carbon disulfide	BRL	5.0		ug/L	203707	1	02/26/2015 12:22	NP
Carbon tetrachloride	BRL	5.0		ug/L	203707	1	02/26/2015 12:22	NP
Chlorobenzene	BRL	5.0		ug/L	203707	1	02/26/2015 12:22	NP
Chloroethane	BRL	10		ug/L	203707	1	02/26/2015 12:22	NP
Chloroform	BRL	5.0		ug/L	203707	1	02/26/2015 12:22	NP
Chloromethane	BRL	10		ug/L	203707	1	02/26/2015 12:22	NP
cis-1,2-Dichloroethene	45	5.0		ug/L	203707	1	02/26/2015 12:22	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	203707	1	02/26/2015 12:22	NP
Cyclohexane	BRL	5.0		ug/L	203707	1	02/26/2015 12:22	NP
Dibromochloromethane	BRL	5.0		ug/L	203707	1	02/26/2015 12:22	NP
Dichlorodifluoromethane	BRL	10		ug/L	203707	1	02/26/2015 12:22	NP
Ethylbenzene	BRL	5.0		ug/L	203707	1	02/26/2015 12:22	NP
Freon-113	BRL	10		ug/L	203707	1	02/26/2015 12:22	NP
Isopropylbenzene	BRL	5.0		ug/L	203707	1	02/26/2015 12:22	NP
m,p-Xylene	BRL	5.0		ug/L	203707	1	02/26/2015 12:22	NP
Methyl acetate	BRL	5.0		ug/L	203707	1	02/26/2015 12:22	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	203707	1	02/26/2015 12:22	NP
Methylcyclohexane	BRL	5.0		ug/L	203707	1	02/26/2015 12:22	NP
Methylene chloride	BRL	5.0		ug/L	203707	1	02/26/2015 12:22	NP
o-Xylene	BRL	5.0		ug/L	203707	1	02/26/2015 12:22	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: MW-35(021815)
Project Name: Lafarge East Point	Collection Date: 2/18/2015 11:40:00 AM
Lab ID: 1502H55-006	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B		(SW5030B)						
Styrene	BRL	5.0		ug/L	203707	1	02/26/2015 12:22	NP
Tetrachloroethene	BRL	5.0		ug/L	203707	1	02/26/2015 12:22	NP
Toluene	BRL	5.0		ug/L	203707	1	02/26/2015 12:22	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	203707	1	02/26/2015 12:22	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	203707	1	02/26/2015 12:22	NP
Trichloroethene	8400	2500		ug/L	203707	500	02/26/2015 00:25	NP
Trichlorofluoromethane	BRL	5.0		ug/L	203707	1	02/26/2015 12:22	NP
Vinyl chloride	BRL	2.0		ug/L	203707	1	02/26/2015 12:22	NP
Surr: 4-Bromofluorobenzene	96.2	70.6-123		%REC	203707	500	02/26/2015 00:25	NP
Surr: 4-Bromofluorobenzene	92.5	70.6-123		%REC	203707	1	02/26/2015 12:22	NP
Surr: Dibromofluoromethane	98.7	78.7-124		%REC	203707	500	02/26/2015 00:25	NP
Surr: Dibromofluoromethane	99.7	78.7-124		%REC	203707	1	02/26/2015 12:22	NP
Surr: Toluene-d8	96.4	81.3-120		%REC	203707	500	02/26/2015 00:25	NP
Surr: Toluene-d8	94.3	81.3-120		%REC	203707	1	02/26/2015 12:22	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: MW-34(021815)
Project Name: Lafarge East Point	Collection Date: 2/18/2015 12:35:00 PM
Lab ID: 1502H55-007	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	203707	1	02/26/2015 13:40	TH
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	203707	1	02/26/2015 13:40	TH
1,1,2-Trichloroethane	BRL	5.0		ug/L	203707	1	02/26/2015 13:40	TH
1,1-Dichloroethane	BRL	5.0		ug/L	203707	1	02/26/2015 13:40	TH
1,1-Dichloroethene	BRL	5.0		ug/L	203707	1	02/26/2015 13:40	TH
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	203707	1	02/26/2015 13:40	TH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	203707	1	02/26/2015 13:40	TH
1,2-Dibromoethane	BRL	5.0		ug/L	203707	1	02/26/2015 13:40	TH
1,2-Dichlorobenzene	BRL	5.0		ug/L	203707	1	02/26/2015 13:40	TH
1,2-Dichloroethane	BRL	5.0		ug/L	203707	1	02/26/2015 13:40	TH
1,2-Dichloropropane	BRL	5.0		ug/L	203707	1	02/26/2015 13:40	TH
1,3-Dichlorobenzene	BRL	5.0		ug/L	203707	1	02/26/2015 13:40	TH
1,4-Dichlorobenzene	BRL	5.0		ug/L	203707	1	02/26/2015 13:40	TH
2-Butanone	BRL	50		ug/L	203707	1	02/26/2015 13:40	TH
2-Hexanone	BRL	10		ug/L	203707	1	02/26/2015 13:40	TH
4-Methyl-2-pentanone	BRL	10		ug/L	203707	1	02/26/2015 13:40	TH
Acetone	BRL	50		ug/L	203707	1	02/26/2015 13:40	TH
Benzene	BRL	5.0		ug/L	203707	1	02/26/2015 13:40	TH
Bromodichloromethane	BRL	5.0		ug/L	203707	1	02/26/2015 13:40	TH
Bromoform	BRL	5.0		ug/L	203707	1	02/26/2015 13:40	TH
Bromomethane	BRL	5.0		ug/L	203707	1	02/26/2015 13:40	TH
Carbon disulfide	BRL	5.0		ug/L	203707	1	02/26/2015 13:40	TH
Carbon tetrachloride	BRL	5.0		ug/L	203707	1	02/26/2015 13:40	TH
Chlorobenzene	BRL	5.0		ug/L	203707	1	02/26/2015 13:40	TH
Chloroethane	BRL	10		ug/L	203707	1	02/26/2015 13:40	TH
Chloroform	BRL	5.0		ug/L	203707	1	02/26/2015 13:40	TH
Chloromethane	BRL	10		ug/L	203707	1	02/26/2015 13:40	TH
cis-1,2-Dichloroethene	BRL	5.0		ug/L	203707	1	02/26/2015 13:40	TH
cis-1,3-Dichloropropene	BRL	5.0		ug/L	203707	1	02/26/2015 13:40	TH
Cyclohexane	BRL	5.0		ug/L	203707	1	02/26/2015 13:40	TH
Dibromochloromethane	BRL	5.0		ug/L	203707	1	02/26/2015 13:40	TH
Dichlorodifluoromethane	BRL	10		ug/L	203707	1	02/26/2015 13:40	TH
Ethylbenzene	BRL	5.0		ug/L	203707	1	02/26/2015 13:40	TH
Freon-113	BRL	10		ug/L	203707	1	02/26/2015 13:40	TH
Isopropylbenzene	BRL	5.0		ug/L	203707	1	02/26/2015 13:40	TH
m,p-Xylene	BRL	5.0		ug/L	203707	1	02/26/2015 13:40	TH
Methyl acetate	BRL	5.0		ug/L	203707	1	02/26/2015 13:40	TH
Methyl tert-butyl ether	BRL	5.0		ug/L	203707	1	02/26/2015 13:40	TH
Methylcyclohexane	BRL	5.0		ug/L	203707	1	02/26/2015 13:40	TH
Methylene chloride	BRL	5.0		ug/L	203707	1	02/26/2015 13:40	TH
o-Xylene	BRL	5.0		ug/L	203707	1	02/26/2015 13:40	TH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: DPE-109(021815)
Project Name: Lafarge East Point	Collection Date: 2/18/2015 12:40:00 PM
Lab ID: 1502H55-008	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	203707	1	02/26/2015 16:26	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	203707	1	02/26/2015 16:26	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	203707	1	02/26/2015 16:26	NP
1,1-Dichloroethane	BRL	5.0		ug/L	203707	1	02/26/2015 16:26	NP
1,1-Dichloroethene	BRL	5.0		ug/L	203707	1	02/26/2015 16:26	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	203707	1	02/26/2015 16:26	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	203707	1	02/26/2015 16:26	NP
1,2-Dibromoethane	BRL	5.0		ug/L	203707	1	02/26/2015 16:26	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	203707	1	02/26/2015 16:26	NP
1,2-Dichloroethane	BRL	5.0		ug/L	203707	1	02/26/2015 16:26	NP
1,2-Dichloropropane	BRL	5.0		ug/L	203707	1	02/26/2015 16:26	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	203707	1	02/26/2015 16:26	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	203707	1	02/26/2015 16:26	NP
2-Butanone	BRL	50		ug/L	203707	1	02/26/2015 16:26	NP
2-Hexanone	BRL	10		ug/L	203707	1	02/26/2015 16:26	NP
4-Methyl-2-pentanone	BRL	10		ug/L	203707	1	02/26/2015 16:26	NP
Acetone	BRL	50		ug/L	203707	1	02/26/2015 16:26	NP
Benzene	BRL	5.0		ug/L	203707	1	02/26/2015 16:26	NP
Bromodichloromethane	BRL	5.0		ug/L	203707	1	02/26/2015 16:26	NP
Bromoform	BRL	5.0		ug/L	203707	1	02/26/2015 16:26	NP
Bromomethane	BRL	5.0		ug/L	203707	1	02/26/2015 16:26	NP
Carbon disulfide	BRL	5.0		ug/L	203707	1	02/26/2015 16:26	NP
Carbon tetrachloride	BRL	5.0		ug/L	203707	1	02/26/2015 16:26	NP
Chlorobenzene	BRL	5.0		ug/L	203707	1	02/26/2015 16:26	NP
Chloroethane	BRL	10		ug/L	203707	1	02/26/2015 16:26	NP
Chloroform	BRL	5.0		ug/L	203707	1	02/26/2015 16:26	NP
Chloromethane	BRL	10		ug/L	203707	1	02/26/2015 16:26	NP
cis-1,2-Dichloroethene	940	500		ug/L	203707	100	02/26/2015 01:11	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	203707	1	02/26/2015 16:26	NP
Cyclohexane	44	5.0		ug/L	203707	1	02/26/2015 16:26	NP
Dibromochloromethane	BRL	5.0		ug/L	203707	1	02/26/2015 16:26	NP
Dichlorodifluoromethane	BRL	10		ug/L	203707	1	02/26/2015 16:26	NP
Ethylbenzene	590	500		ug/L	203707	100	02/26/2015 01:11	NP
Freon-113	BRL	10		ug/L	203707	1	02/26/2015 16:26	NP
Isopropylbenzene	6.0	5.0		ug/L	203707	1	02/26/2015 16:26	NP
m,p-Xylene	2100	500		ug/L	203707	100	02/26/2015 01:11	NP
Methyl acetate	BRL	5.0		ug/L	203707	1	02/26/2015 16:26	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	203707	1	02/26/2015 16:26	NP
Methylcyclohexane	47	5.0		ug/L	203707	1	02/26/2015 16:26	NP
Methylene chloride	BRL	5.0		ug/L	203707	1	02/26/2015 16:26	NP
o-Xylene	790	500		ug/L	203707	100	02/26/2015 01:11	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: DPE-109(021815)
Project Name: Lafarge East Point	Collection Date: 2/18/2015 12:40:00 PM
Lab ID: 1502H55-008	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5030B)			
Styrene	BRL	5.0		ug/L	203707	1	02/26/2015 16:26	NP
Tetrachloroethene	BRL	5.0		ug/L	203707	1	02/26/2015 16:26	NP
Toluene	4100	500		ug/L	203707	100	02/26/2015 01:11	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	203707	1	02/26/2015 16:26	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	203707	1	02/26/2015 16:26	NP
Trichloroethene	56	5.0		ug/L	203707	1	02/26/2015 16:26	NP
Trichlorofluoromethane	BRL	5.0		ug/L	203707	1	02/26/2015 16:26	NP
Vinyl chloride	5.2	2.0		ug/L	203707	1	02/26/2015 16:26	NP
Surr: 4-Bromofluorobenzene	95.7	70.6-123		%REC	203707	100	02/26/2015 01:11	NP
Surr: 4-Bromofluorobenzene	102	70.6-123		%REC	203707	1	02/26/2015 16:26	NP
Surr: Dibromofluoromethane	98.1	78.7-124		%REC	203707	1	02/26/2015 16:26	NP
Surr: Dibromofluoromethane	98.3	78.7-124		%REC	203707	100	02/26/2015 01:11	NP
Surr: Toluene-d8	96.2	81.3-120		%REC	203707	100	02/26/2015 01:11	NP
Surr: Toluene-d8	98.1	81.3-120		%REC	203707	1	02/26/2015 16:26	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: MW-32(021815)
Project Name: Lafarge East Point	Collection Date: 2/18/2015 12:50:00 PM
Lab ID: 1502H55-009	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	2500		ug/L	203707	500	02/26/2015 12:02	TH
1,1,2,2-Tetrachloroethane	BRL	2500		ug/L	203707	500	02/26/2015 12:02	TH
1,1,2-Trichloroethane	BRL	2500		ug/L	203707	500	02/26/2015 12:02	TH
1,1-Dichloroethane	BRL	2500		ug/L	203707	500	02/26/2015 12:02	TH
1,1-Dichloroethene	BRL	2500		ug/L	203707	500	02/26/2015 12:02	TH
1,2,4-Trichlorobenzene	BRL	2500		ug/L	203707	500	02/26/2015 12:02	TH
1,2-Dibromo-3-chloropropane	BRL	2500		ug/L	203707	500	02/26/2015 12:02	TH
1,2-Dibromoethane	BRL	2500		ug/L	203707	500	02/26/2015 12:02	TH
1,2-Dichlorobenzene	BRL	2500		ug/L	203707	500	02/26/2015 12:02	TH
1,2-Dichloroethane	BRL	2500		ug/L	203707	500	02/26/2015 12:02	TH
1,2-Dichloropropane	BRL	2500		ug/L	203707	500	02/26/2015 12:02	TH
1,3-Dichlorobenzene	BRL	2500		ug/L	203707	500	02/26/2015 12:02	TH
1,4-Dichlorobenzene	BRL	2500		ug/L	203707	500	02/26/2015 12:02	TH
2-Butanone	BRL	25000		ug/L	203707	500	02/26/2015 12:02	TH
2-Hexanone	BRL	5000		ug/L	203707	500	02/26/2015 12:02	TH
4-Methyl-2-pentanone	BRL	5000		ug/L	203707	500	02/26/2015 12:02	TH
Acetone	BRL	25000		ug/L	203707	500	02/26/2015 12:02	TH
Benzene	BRL	2500		ug/L	203707	500	02/26/2015 12:02	TH
Bromodichloromethane	BRL	2500		ug/L	203707	500	02/26/2015 12:02	TH
Bromoform	BRL	2500		ug/L	203707	500	02/26/2015 12:02	TH
Bromomethane	BRL	2500		ug/L	203707	500	02/26/2015 12:02	TH
Carbon disulfide	BRL	2500		ug/L	203707	500	02/26/2015 12:02	TH
Carbon tetrachloride	BRL	2500		ug/L	203707	500	02/26/2015 12:02	TH
Chlorobenzene	BRL	2500		ug/L	203707	500	02/26/2015 12:02	TH
Chloroethane	BRL	5000		ug/L	203707	500	02/26/2015 12:02	TH
Chloroform	BRL	2500		ug/L	203707	500	02/26/2015 12:02	TH
Chloromethane	BRL	5000		ug/L	203707	500	02/26/2015 12:02	TH
cis-1,2-Dichloroethene	BRL	2500		ug/L	203707	500	02/26/2015 12:02	TH
cis-1,3-Dichloropropene	BRL	2500		ug/L	203707	500	02/26/2015 12:02	TH
Cyclohexane	BRL	2500		ug/L	203707	500	02/26/2015 12:02	TH
Dibromochloromethane	BRL	2500		ug/L	203707	500	02/26/2015 12:02	TH
Dichlorodifluoromethane	BRL	5000		ug/L	203707	500	02/26/2015 12:02	TH
Ethylbenzene	BRL	2500		ug/L	203707	500	02/26/2015 12:02	TH
Freon-113	BRL	5000		ug/L	203707	500	02/26/2015 12:02	TH
Isopropylbenzene	BRL	2500		ug/L	203707	500	02/26/2015 12:02	TH
m,p-Xylene	BRL	2500		ug/L	203707	500	02/26/2015 12:02	TH
Methyl acetate	BRL	2500		ug/L	203707	500	02/26/2015 12:02	TH
Methyl tert-butyl ether	BRL	2500		ug/L	203707	500	02/26/2015 12:02	TH
Methylcyclohexane	BRL	2500		ug/L	203707	500	02/26/2015 12:02	TH
Methylene chloride	BRL	2500		ug/L	203707	500	02/26/2015 12:02	TH
o-Xylene	BRL	2500		ug/L	203707	500	02/26/2015 12:02	TH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 3-Mar-15

Client: Arcadis	Client Sample ID: MW-32(021815)
Project Name: Lafarge East Point	Collection Date: 2/18/2015 12:50:00 PM
Lab ID: 1502H55-009	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	2500		ug/L	203707	500	02/26/2015 12:02	TH
Tetrachloroethene	BRL	2500		ug/L	203707	500	02/26/2015 12:02	TH
Toluene	BRL	2500		ug/L	203707	500	02/26/2015 12:02	TH
trans-1,2-Dichloroethene	BRL	2500		ug/L	203707	500	02/26/2015 12:02	TH
trans-1,3-Dichloropropene	BRL	2500		ug/L	203707	500	02/26/2015 12:02	TH
Trichloroethene	59000	2500		ug/L	203707	500	02/26/2015 12:02	TH
Trichlorofluoromethane	BRL	2500		ug/L	203707	500	02/26/2015 12:02	TH
Vinyl chloride	BRL	1000		ug/L	203707	500	02/26/2015 12:02	TH
Surr: 4-Bromofluorobenzene	92.1	70.6-123		%REC	203707	500	02/26/2015 12:02	TH
Surr: Dibromofluoromethane	112	78.7-124		%REC	203707	500	02/26/2015 12:02	TH
Surr: Toluene-d8	100	81.3-120		%REC	203707	500	02/26/2015 12:02	TH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: MW-7(021815)
Project Name: Lafarge East Point	Collection Date: 2/18/2015 1:55:00 PM
Lab ID: 1502H55-010	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	203707	1	02/26/2015 12:45	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	203707	1	02/26/2015 12:45	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	203707	1	02/26/2015 12:45	NP
1,1-Dichloroethane	BRL	5.0		ug/L	203707	1	02/26/2015 12:45	NP
1,1-Dichloroethene	27	5.0		ug/L	203707	1	02/26/2015 12:45	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	203707	1	02/26/2015 12:45	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	203707	1	02/26/2015 12:45	NP
1,2-Dibromoethane	BRL	5.0		ug/L	203707	1	02/26/2015 12:45	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	203707	1	02/26/2015 12:45	NP
1,2-Dichloroethane	BRL	5.0		ug/L	203707	1	02/26/2015 12:45	NP
1,2-Dichloropropane	BRL	5.0		ug/L	203707	1	02/26/2015 12:45	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	203707	1	02/26/2015 12:45	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	203707	1	02/26/2015 12:45	NP
2-Butanone	BRL	50		ug/L	203707	1	02/26/2015 12:45	NP
2-Hexanone	BRL	10		ug/L	203707	1	02/26/2015 12:45	NP
4-Methyl-2-pentanone	BRL	10		ug/L	203707	1	02/26/2015 12:45	NP
Acetone	BRL	50		ug/L	203707	1	02/26/2015 12:45	NP
Benzene	BRL	5.0		ug/L	203707	1	02/26/2015 12:45	NP
Bromodichloromethane	BRL	5.0		ug/L	203707	1	02/26/2015 12:45	NP
Bromoform	BRL	5.0		ug/L	203707	1	02/26/2015 12:45	NP
Bromomethane	BRL	5.0		ug/L	203707	1	02/26/2015 12:45	NP
Carbon disulfide	BRL	5.0		ug/L	203707	1	02/26/2015 12:45	NP
Carbon tetrachloride	BRL	5.0		ug/L	203707	1	02/26/2015 12:45	NP
Chlorobenzene	BRL	5.0		ug/L	203707	1	02/26/2015 12:45	NP
Chloroethane	BRL	10		ug/L	203707	1	02/26/2015 12:45	NP
Chloroform	BRL	5.0		ug/L	203707	1	02/26/2015 12:45	NP
Chloromethane	BRL	10		ug/L	203707	1	02/26/2015 12:45	NP
cis-1,2-Dichloroethene	12000	500		ug/L	203707	100	02/26/2015 01:35	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	203707	1	02/26/2015 12:45	NP
Cyclohexane	16	5.0		ug/L	203707	1	02/26/2015 12:45	NP
Dibromochloromethane	BRL	5.0		ug/L	203707	1	02/26/2015 12:45	NP
Dichlorodifluoromethane	BRL	10		ug/L	203707	1	02/26/2015 12:45	NP
Ethylbenzene	BRL	5.0		ug/L	203707	1	02/26/2015 12:45	NP
Freon-113	BRL	10		ug/L	203707	1	02/26/2015 12:45	NP
Isopropylbenzene	BRL	5.0		ug/L	203707	1	02/26/2015 12:45	NP
m,p-Xylene	BRL	5.0		ug/L	203707	1	02/26/2015 12:45	NP
Methyl acetate	BRL	5.0		ug/L	203707	1	02/26/2015 12:45	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	203707	1	02/26/2015 12:45	NP
Methylcyclohexane	67	5.0		ug/L	203707	1	02/26/2015 12:45	NP
Methylene chloride	BRL	5.0		ug/L	203707	1	02/26/2015 12:45	NP
o-Xylene	BRL	5.0		ug/L	203707	1	02/26/2015 12:45	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: MW-8(021815)
Project Name: Lafarge East Point	Collection Date: 2/18/2015 2:55:00 PM
Lab ID: 1502H55-011	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	203707	1	02/26/2015 12:27	TH
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	203707	1	02/26/2015 12:27	TH
1,1,2-Trichloroethane	BRL	5.0		ug/L	203707	1	02/26/2015 12:27	TH
1,1-Dichloroethane	BRL	5.0		ug/L	203707	1	02/26/2015 12:27	TH
1,1-Dichloroethene	BRL	5.0		ug/L	203707	1	02/26/2015 12:27	TH
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	203707	1	02/26/2015 12:27	TH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	203707	1	02/26/2015 12:27	TH
1,2-Dibromoethane	BRL	5.0		ug/L	203707	1	02/26/2015 12:27	TH
1,2-Dichlorobenzene	BRL	5.0		ug/L	203707	1	02/26/2015 12:27	TH
1,2-Dichloroethane	BRL	5.0		ug/L	203707	1	02/26/2015 12:27	TH
1,2-Dichloropropane	BRL	5.0		ug/L	203707	1	02/26/2015 12:27	TH
1,3-Dichlorobenzene	BRL	5.0		ug/L	203707	1	02/26/2015 12:27	TH
1,4-Dichlorobenzene	BRL	5.0		ug/L	203707	1	02/26/2015 12:27	TH
2-Butanone	BRL	50		ug/L	203707	1	02/26/2015 12:27	TH
2-Hexanone	BRL	10		ug/L	203707	1	02/26/2015 12:27	TH
4-Methyl-2-pentanone	BRL	10		ug/L	203707	1	02/26/2015 12:27	TH
Acetone	BRL	50		ug/L	203707	1	02/26/2015 12:27	TH
Benzene	BRL	5.0		ug/L	203707	1	02/26/2015 12:27	TH
Bromodichloromethane	BRL	5.0		ug/L	203707	1	02/26/2015 12:27	TH
Bromoform	BRL	5.0		ug/L	203707	1	02/26/2015 12:27	TH
Bromomethane	BRL	5.0		ug/L	203707	1	02/26/2015 12:27	TH
Carbon disulfide	BRL	5.0		ug/L	203707	1	02/26/2015 12:27	TH
Carbon tetrachloride	BRL	5.0		ug/L	203707	1	02/26/2015 12:27	TH
Chlorobenzene	BRL	5.0		ug/L	203707	1	02/26/2015 12:27	TH
Chloroethane	BRL	10		ug/L	203707	1	02/26/2015 12:27	TH
Chloroform	BRL	5.0		ug/L	203707	1	02/26/2015 12:27	TH
Chloromethane	BRL	10		ug/L	203707	1	02/26/2015 12:27	TH
cis-1,2-Dichloroethene	7.7	5.0		ug/L	203707	1	02/26/2015 12:27	TH
cis-1,3-Dichloropropene	BRL	5.0		ug/L	203707	1	02/26/2015 12:27	TH
Cyclohexane	BRL	5.0		ug/L	203707	1	02/26/2015 12:27	TH
Dibromochloromethane	BRL	5.0		ug/L	203707	1	02/26/2015 12:27	TH
Dichlorodifluoromethane	BRL	10		ug/L	203707	1	02/26/2015 12:27	TH
Ethylbenzene	BRL	5.0		ug/L	203707	1	02/26/2015 12:27	TH
Freon-113	BRL	10		ug/L	203707	1	02/26/2015 12:27	TH
Isopropylbenzene	BRL	5.0		ug/L	203707	1	02/26/2015 12:27	TH
m,p-Xylene	BRL	5.0		ug/L	203707	1	02/26/2015 12:27	TH
Methyl acetate	BRL	5.0		ug/L	203707	1	02/26/2015 12:27	TH
Methyl tert-butyl ether	BRL	5.0		ug/L	203707	1	02/26/2015 12:27	TH
Methylcyclohexane	BRL	5.0		ug/L	203707	1	02/26/2015 12:27	TH
Methylene chloride	BRL	5.0		ug/L	203707	1	02/26/2015 12:27	TH
o-Xylene	BRL	5.0		ug/L	203707	1	02/26/2015 12:27	TH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: MW-8(021815)
Project Name: Lafarge East Point	Collection Date: 2/18/2015 2:55:00 PM
Lab ID: 1502H55-011	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	203707	1	02/26/2015 12:27	TH
Tetrachloroethene	BRL	5.0		ug/L	203707	1	02/26/2015 12:27	TH
Toluene	BRL	5.0		ug/L	203707	1	02/26/2015 12:27	TH
trans-1,2-Dichloroethene	BRL	5.0		ug/L	203707	1	02/26/2015 12:27	TH
trans-1,3-Dichloropropene	BRL	5.0		ug/L	203707	1	02/26/2015 12:27	TH
Trichloroethene	BRL	5.0		ug/L	203707	1	02/26/2015 12:27	TH
Trichlorofluoromethane	BRL	5.0		ug/L	203707	1	02/26/2015 12:27	TH
Vinyl chloride	11	2.0		ug/L	203707	1	02/26/2015 12:27	TH
Surr: 4-Bromofluorobenzene	90.6	70.6-123		%REC	203707	1	02/26/2015 12:27	TH
Surr: Dibromofluoromethane	112	78.7-124		%REC	203707	1	02/26/2015 12:27	TH
Surr: Toluene-d8	98.2	81.3-120		%REC	203707	1	02/26/2015 12:27	TH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: MW-21(021815)
Project Name: Lafarge East Point	Collection Date: 2/18/2015 4:20:00 PM
Lab ID: 1502H55-012	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	203707	1	02/26/2015 11:58	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	203707	1	02/26/2015 11:58	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	203707	1	02/26/2015 11:58	NP
1,1-Dichloroethane	BRL	5.0		ug/L	203707	1	02/26/2015 11:58	NP
1,1-Dichloroethene	5.8	5.0		ug/L	203707	1	02/26/2015 11:58	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	203707	1	02/26/2015 11:58	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	203707	1	02/26/2015 11:58	NP
1,2-Dibromoethane	BRL	5.0		ug/L	203707	1	02/26/2015 11:58	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	203707	1	02/26/2015 11:58	NP
1,2-Dichloroethane	BRL	5.0		ug/L	203707	1	02/26/2015 11:58	NP
1,2-Dichloropropane	BRL	5.0		ug/L	203707	1	02/26/2015 11:58	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	203707	1	02/26/2015 11:58	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	203707	1	02/26/2015 11:58	NP
2-Butanone	BRL	50		ug/L	203707	1	02/26/2015 11:58	NP
2-Hexanone	BRL	10		ug/L	203707	1	02/26/2015 11:58	NP
4-Methyl-2-pentanone	BRL	10		ug/L	203707	1	02/26/2015 11:58	NP
Acetone	BRL	50		ug/L	203707	1	02/26/2015 11:58	NP
Benzene	22	5.0		ug/L	203707	1	02/26/2015 11:58	NP
Bromodichloromethane	BRL	5.0		ug/L	203707	1	02/26/2015 11:58	NP
Bromoform	BRL	5.0		ug/L	203707	1	02/26/2015 11:58	NP
Bromomethane	BRL	5.0		ug/L	203707	1	02/26/2015 11:58	NP
Carbon disulfide	BRL	5.0		ug/L	203707	1	02/26/2015 11:58	NP
Carbon tetrachloride	BRL	5.0		ug/L	203707	1	02/26/2015 11:58	NP
Chlorobenzene	BRL	5.0		ug/L	203707	1	02/26/2015 11:58	NP
Chloroethane	BRL	10		ug/L	203707	1	02/26/2015 11:58	NP
Chloroform	BRL	5.0		ug/L	203707	1	02/26/2015 11:58	NP
Chloromethane	BRL	10		ug/L	203707	1	02/26/2015 11:58	NP
cis-1,2-Dichloroethene	5100	500		ug/L	203707	100	02/26/2015 01:58	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	203707	1	02/26/2015 11:58	NP
Cyclohexane	73	5.0		ug/L	203707	1	02/26/2015 11:58	NP
Dibromochloromethane	BRL	5.0		ug/L	203707	1	02/26/2015 11:58	NP
Dichlorodifluoromethane	BRL	10		ug/L	203707	1	02/26/2015 11:58	NP
Ethylbenzene	BRL	5.0		ug/L	203707	1	02/26/2015 11:58	NP
Freon-113	BRL	10		ug/L	203707	1	02/26/2015 11:58	NP
Isopropylbenzene	BRL	5.0		ug/L	203707	1	02/26/2015 11:58	NP
m,p-Xylene	BRL	5.0		ug/L	203707	1	02/26/2015 11:58	NP
Methyl acetate	BRL	5.0		ug/L	203707	1	02/26/2015 11:58	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	203707	1	02/26/2015 11:58	NP
Methylcyclohexane	160	5.0		ug/L	203707	1	02/26/2015 11:58	NP
Methylene chloride	BRL	5.0		ug/L	203707	1	02/26/2015 11:58	NP
o-Xylene	BRL	5.0		ug/L	203707	1	02/26/2015 11:58	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: MW-21(021815)
Project Name: Lafarge East Point	Collection Date: 2/18/2015 4:20:00 PM
Lab ID: 1502H55-012	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5030B)			
Styrene	BRL	5.0		ug/L	203707	1	02/26/2015 11:58	NP
Tetrachloroethene	BRL	5.0		ug/L	203707	1	02/26/2015 11:58	NP
Toluene	BRL	5.0		ug/L	203707	1	02/26/2015 11:58	NP
trans-1,2-Dichloroethene	6.6	5.0		ug/L	203707	1	02/26/2015 11:58	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	203707	1	02/26/2015 11:58	NP
Trichloroethene	BRL	5.0		ug/L	203707	1	02/26/2015 11:58	NP
Trichlorofluoromethane	BRL	5.0		ug/L	203707	1	02/26/2015 11:58	NP
Vinyl chloride	290	200		ug/L	203707	100	02/26/2015 01:58	NP
Surr: 4-Bromofluorobenzene	95.1	70.6-123		%REC	203707	1	02/26/2015 11:58	NP
Surr: 4-Bromofluorobenzene	95.9	70.6-123		%REC	203707	100	02/26/2015 01:58	NP
Surr: Dibromofluoromethane	97.7	78.7-124		%REC	203707	1	02/26/2015 11:58	NP
Surr: Dibromofluoromethane	99.4	78.7-124		%REC	203707	100	02/26/2015 01:58	NP
Surr: Toluene-d8	96.7	81.3-120		%REC	203707	1	02/26/2015 11:58	NP
Surr: Toluene-d8	97.5	81.3-120		%REC	203707	100	02/26/2015 01:58	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: MW-36(021815)
Project Name: Lafarge East Point	Collection Date: 2/18/2015 4:35:00 PM
Lab ID: 1502H55-013	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B		(SW5030B)						
1,1,1-Trichloroethane	BRL	5.0		ug/L	203707	1	02/26/2015 13:09	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	203707	1	02/26/2015 13:09	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	203707	1	02/26/2015 13:09	NP
1,1-Dichloroethane	BRL	5.0		ug/L	203707	1	02/26/2015 13:09	NP
1,1-Dichloroethene	29	5.0		ug/L	203707	1	02/26/2015 13:09	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	203707	1	02/26/2015 13:09	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	203707	1	02/26/2015 13:09	NP
1,2-Dibromoethane	BRL	5.0		ug/L	203707	1	02/26/2015 13:09	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	203707	1	02/26/2015 13:09	NP
1,2-Dichloroethane	BRL	5.0		ug/L	203707	1	02/26/2015 13:09	NP
1,2-Dichloropropane	BRL	5.0		ug/L	203707	1	02/26/2015 13:09	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	203707	1	02/26/2015 13:09	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	203707	1	02/26/2015 13:09	NP
2-Butanone	BRL	50		ug/L	203707	1	02/26/2015 13:09	NP
2-Hexanone	BRL	10		ug/L	203707	1	02/26/2015 13:09	NP
4-Methyl-2-pentanone	BRL	10		ug/L	203707	1	02/26/2015 13:09	NP
Acetone	BRL	50		ug/L	203707	1	02/26/2015 13:09	NP
Benzene	BRL	5.0		ug/L	203707	1	02/26/2015 13:09	NP
Bromodichloromethane	BRL	5.0		ug/L	203707	1	02/26/2015 13:09	NP
Bromoform	BRL	5.0		ug/L	203707	1	02/26/2015 13:09	NP
Bromomethane	BRL	5.0		ug/L	203707	1	02/26/2015 13:09	NP
Carbon disulfide	BRL	5.0		ug/L	203707	1	02/26/2015 13:09	NP
Carbon tetrachloride	BRL	5.0		ug/L	203707	1	02/26/2015 13:09	NP
Chlorobenzene	BRL	5.0		ug/L	203707	1	02/26/2015 13:09	NP
Chloroethane	BRL	10		ug/L	203707	1	02/26/2015 13:09	NP
Chloroform	BRL	5.0		ug/L	203707	1	02/26/2015 13:09	NP
Chloromethane	BRL	10		ug/L	203707	1	02/26/2015 13:09	NP
cis-1,2-Dichloroethene	9200	500		ug/L	203707	100	02/26/2015 02:22	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	203707	1	02/26/2015 13:09	NP
Cyclohexane	BRL	5.0		ug/L	203707	1	02/26/2015 13:09	NP
Dibromochloromethane	BRL	5.0		ug/L	203707	1	02/26/2015 13:09	NP
Dichlorodifluoromethane	BRL	10		ug/L	203707	1	02/26/2015 13:09	NP
Ethylbenzene	7.0	5.0		ug/L	203707	1	02/26/2015 13:09	NP
Freon-113	BRL	10		ug/L	203707	1	02/26/2015 13:09	NP
Isopropylbenzene	BRL	5.0		ug/L	203707	1	02/26/2015 13:09	NP
m,p-Xylene	7.8	5.0		ug/L	203707	1	02/26/2015 13:09	NP
Methyl acetate	BRL	5.0		ug/L	203707	1	02/26/2015 13:09	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	203707	1	02/26/2015 13:09	NP
Methylcyclohexane	BRL	5.0		ug/L	203707	1	02/26/2015 13:09	NP
Methylene chloride	BRL	5.0		ug/L	203707	1	02/26/2015 13:09	NP
o-Xylene	BRL	5.0		ug/L	203707	1	02/26/2015 13:09	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: MW-36(021815)
Project Name: Lafarge East Point	Collection Date: 2/18/2015 4:35:00 PM
Lab ID: 1502H55-013	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5030B)			
Styrene	BRL	5.0		ug/L	203707	1	02/26/2015 13:09	NP
Tetrachloroethene	BRL	5.0		ug/L	203707	1	02/26/2015 13:09	NP
Toluene	34	5.0		ug/L	203707	1	02/26/2015 13:09	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	203707	1	02/26/2015 13:09	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	203707	1	02/26/2015 13:09	NP
Trichloroethene	4800	500		ug/L	203707	100	02/26/2015 02:22	NP
Trichlorofluoromethane	BRL	5.0		ug/L	203707	1	02/26/2015 13:09	NP
Vinyl chloride	10	2.0		ug/L	203707	1	02/26/2015 13:09	NP
Surr: 4-Bromofluorobenzene	92.9	70.6-123		%REC	203707	100	02/26/2015 02:22	NP
Surr: 4-Bromofluorobenzene	94.2	70.6-123		%REC	203707	1	02/26/2015 13:09	NP
Surr: Dibromofluoromethane	99.9	78.7-124		%REC	203707	1	02/26/2015 13:09	NP
Surr: Dibromofluoromethane	101	78.7-124		%REC	203707	100	02/26/2015 02:22	NP
Surr: Toluene-d8	94.6	81.3-120		%REC	203707	1	02/26/2015 13:09	NP
Surr: Toluene-d8	96.4	81.3-120		%REC	203707	100	02/26/2015 02:22	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: DPE-313(021915)
Project Name: Lafarge East Point	Collection Date: 2/19/2015 11:00:00 AM
Lab ID: 1502H55-014	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	203707	1	02/26/2015 16:50	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	203707	1	02/26/2015 16:50	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	203707	1	02/26/2015 16:50	NP
1,1-Dichloroethane	BRL	5.0		ug/L	203707	1	02/26/2015 16:50	NP
1,1-Dichloroethene	BRL	5.0		ug/L	203707	1	02/26/2015 16:50	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	203707	1	02/26/2015 16:50	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	203707	1	02/26/2015 16:50	NP
1,2-Dibromoethane	BRL	5.0		ug/L	203707	1	02/26/2015 16:50	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	203707	1	02/26/2015 16:50	NP
1,2-Dichloroethane	BRL	5.0		ug/L	203707	1	02/26/2015 16:50	NP
1,2-Dichloropropane	BRL	5.0		ug/L	203707	1	02/26/2015 16:50	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	203707	1	02/26/2015 16:50	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	203707	1	02/26/2015 16:50	NP
2-Butanone	BRL	50		ug/L	203707	1	02/26/2015 16:50	NP
2-Hexanone	43	10		ug/L	203707	1	02/26/2015 16:50	NP
4-Methyl-2-pentanone	48	10		ug/L	203707	1	02/26/2015 16:50	NP
Acetone	BRL	50		ug/L	203707	1	02/26/2015 16:50	NP
Benzene	110	5.0		ug/L	203707	1	02/26/2015 16:50	NP
Bromodichloromethane	BRL	5.0		ug/L	203707	1	02/26/2015 16:50	NP
Bromoform	BRL	5.0		ug/L	203707	1	02/26/2015 16:50	NP
Bromomethane	BRL	5.0		ug/L	203707	1	02/26/2015 16:50	NP
Carbon disulfide	BRL	5.0		ug/L	203707	1	02/26/2015 16:50	NP
Carbon tetrachloride	BRL	5.0		ug/L	203707	1	02/26/2015 16:50	NP
Chlorobenzene	BRL	5.0		ug/L	203707	1	02/26/2015 16:50	NP
Chloroethane	BRL	10		ug/L	203707	1	02/26/2015 16:50	NP
Chloroform	BRL	5.0		ug/L	203707	1	02/26/2015 16:50	NP
Chloromethane	BRL	10		ug/L	203707	1	02/26/2015 16:50	NP
cis-1,2-Dichloroethene	23	5.0		ug/L	203707	1	02/26/2015 16:50	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	203707	1	02/26/2015 16:50	NP
Cyclohexane	1700	50		ug/L	203707	10	02/26/2015 03:56	NP
Dibromochloromethane	BRL	5.0		ug/L	203707	1	02/26/2015 16:50	NP
Dichlorodifluoromethane	BRL	10		ug/L	203707	1	02/26/2015 16:50	NP
Ethylbenzene	950	50		ug/L	203707	10	02/26/2015 03:56	NP
Freon-113	BRL	10		ug/L	203707	1	02/26/2015 16:50	NP
Isopropylbenzene	7.8	5.0		ug/L	203707	1	02/26/2015 16:50	NP
m,p-Xylene	2600	50		ug/L	203707	10	02/26/2015 03:56	NP
Methyl acetate	BRL	5.0		ug/L	203707	1	02/26/2015 16:50	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	203707	1	02/26/2015 16:50	NP
Methylcyclohexane	54	5.0		ug/L	203707	1	02/26/2015 16:50	NP
Methylene chloride	BRL	5.0		ug/L	203707	1	02/26/2015 16:50	NP
o-Xylene	330	50		ug/L	203707	10	02/26/2015 03:56	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: DPE-313(021915)
Project Name: Lafarge East Point	Collection Date: 2/19/2015 11:00:00 AM
Lab ID: 1502H55-014	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5030B)			
Styrene	BRL	5.0		ug/L	203707	1	02/26/2015 16:50	NP
Tetrachloroethene	BRL	5.0		ug/L	203707	1	02/26/2015 16:50	NP
Toluene	890	50		ug/L	203707	10	02/26/2015 03:56	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	203707	1	02/26/2015 16:50	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	203707	1	02/26/2015 16:50	NP
Trichloroethene	BRL	5.0		ug/L	203707	1	02/26/2015 16:50	NP
Trichlorofluoromethane	BRL	5.0		ug/L	203707	1	02/26/2015 16:50	NP
Vinyl chloride	BRL	2.0		ug/L	203707	1	02/26/2015 16:50	NP
Surr: 4-Bromofluorobenzene	99.5	70.6-123		%REC	203707	1	02/26/2015 16:50	NP
Surr: 4-Bromofluorobenzene	98.2	70.6-123		%REC	203707	10	02/26/2015 03:56	NP
Surr: Dibromofluoromethane	94.9	78.7-124		%REC	203707	1	02/26/2015 16:50	NP
Surr: Dibromofluoromethane	95.9	78.7-124		%REC	203707	10	02/26/2015 03:56	NP
Surr: Toluene-d8	97	81.3-120		%REC	203707	10	02/26/2015 03:56	NP
Surr: Toluene-d8	100	81.3-120		%REC	203707	1	02/26/2015 16:50	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: DPE-307(021915)
Project Name: Lafarge East Point	Collection Date: 2/19/2015 11:15:00 AM
Lab ID: 1502H55-015	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	25000		ug/L	203707	5000	02/25/2015 23:14	NP
1,1,2,2-Tetrachloroethane	BRL	25000		ug/L	203707	5000	02/25/2015 23:14	NP
1,1,2-Trichloroethane	BRL	25000		ug/L	203707	5000	02/25/2015 23:14	NP
1,1-Dichloroethane	BRL	25000		ug/L	203707	5000	02/25/2015 23:14	NP
1,1-Dichloroethene	BRL	25000		ug/L	203707	5000	02/25/2015 23:14	NP
1,2,4-Trichlorobenzene	BRL	25000		ug/L	203707	5000	02/25/2015 23:14	NP
1,2-Dibromo-3-chloropropane	BRL	25000		ug/L	203707	5000	02/25/2015 23:14	NP
1,2-Dibromoethane	BRL	25000		ug/L	203707	5000	02/25/2015 23:14	NP
1,2-Dichlorobenzene	BRL	25000		ug/L	203707	5000	02/25/2015 23:14	NP
1,2-Dichloroethane	BRL	25000		ug/L	203707	5000	02/25/2015 23:14	NP
1,2-Dichloropropane	BRL	25000		ug/L	203707	5000	02/25/2015 23:14	NP
1,3-Dichlorobenzene	BRL	25000		ug/L	203707	5000	02/25/2015 23:14	NP
1,4-Dichlorobenzene	BRL	25000		ug/L	203707	5000	02/25/2015 23:14	NP
2-Butanone	BRL	250000		ug/L	203707	5000	02/25/2015 23:14	NP
2-Hexanone	BRL	50000		ug/L	203707	5000	02/25/2015 23:14	NP
4-Methyl-2-pentanone	BRL	50000		ug/L	203707	5000	02/25/2015 23:14	NP
Acetone	BRL	250000		ug/L	203707	5000	02/25/2015 23:14	NP
Benzene	BRL	25000		ug/L	203707	5000	02/25/2015 23:14	NP
Bromodichloromethane	BRL	25000		ug/L	203707	5000	02/25/2015 23:14	NP
Bromoform	BRL	25000		ug/L	203707	5000	02/25/2015 23:14	NP
Bromomethane	BRL	25000		ug/L	203707	5000	02/25/2015 23:14	NP
Carbon disulfide	BRL	25000		ug/L	203707	5000	02/25/2015 23:14	NP
Carbon tetrachloride	BRL	25000		ug/L	203707	5000	02/25/2015 23:14	NP
Chlorobenzene	BRL	25000		ug/L	203707	5000	02/25/2015 23:14	NP
Chloroethane	BRL	50000		ug/L	203707	5000	02/25/2015 23:14	NP
Chloroform	BRL	25000		ug/L	203707	5000	02/25/2015 23:14	NP
Chloromethane	BRL	50000		ug/L	203707	5000	02/25/2015 23:14	NP
cis-1,2-Dichloroethene	BRL	25000		ug/L	203707	5000	02/25/2015 23:14	NP
cis-1,3-Dichloropropene	BRL	25000		ug/L	203707	5000	02/25/2015 23:14	NP
Cyclohexane	BRL	25000		ug/L	203707	5000	02/25/2015 23:14	NP
Dibromochloromethane	BRL	25000		ug/L	203707	5000	02/25/2015 23:14	NP
Dichlorodifluoromethane	BRL	50000		ug/L	203707	5000	02/25/2015 23:14	NP
Ethylbenzene	BRL	25000		ug/L	203707	5000	02/25/2015 23:14	NP
Freon-113	BRL	50000		ug/L	203707	5000	02/25/2015 23:14	NP
Isopropylbenzene	BRL	25000		ug/L	203707	5000	02/25/2015 23:14	NP
m,p-Xylene	BRL	25000		ug/L	203707	5000	02/25/2015 23:14	NP
Methyl acetate	BRL	25000		ug/L	203707	5000	02/25/2015 23:14	NP
Methyl tert-butyl ether	BRL	25000		ug/L	203707	5000	02/25/2015 23:14	NP
Methylcyclohexane	BRL	25000		ug/L	203707	5000	02/25/2015 23:14	NP
Methylene chloride	BRL	25000		ug/L	203707	5000	02/25/2015 23:14	NP
o-Xylene	BRL	25000		ug/L	203707	5000	02/25/2015 23:14	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: DPE-307(021915)
Project Name: Lafarge East Point	Collection Date: 2/19/2015 11:15:00 AM
Lab ID: 1502H55-015	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5030B)			
Styrene	BRL	25000		ug/L	203707	5000	02/25/2015 23:14	NP
Tetrachloroethene	BRL	25000		ug/L	203707	5000	02/25/2015 23:14	NP
Toluene	160000	25000		ug/L	203707	5000	02/25/2015 23:14	NP
trans-1,2-Dichloroethene	BRL	25000		ug/L	203707	5000	02/25/2015 23:14	NP
trans-1,3-Dichloropropene	BRL	25000		ug/L	203707	5000	02/25/2015 23:14	NP
Trichloroethene	BRL	25000		ug/L	203707	5000	02/25/2015 23:14	NP
Trichlorofluoromethane	BRL	25000		ug/L	203707	5000	02/25/2015 23:14	NP
Vinyl chloride	BRL	10000		ug/L	203707	5000	02/25/2015 23:14	NP
Surr: 4-Bromofluorobenzene	95.2	70.6-123		%REC	203707	5000	02/25/2015 23:14	NP
Surr: Dibromofluoromethane	97	78.7-124		%REC	203707	5000	02/25/2015 23:14	NP
Surr: Toluene-d8	96.1	81.3-120		%REC	203707	5000	02/25/2015 23:14	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: TRIP BLANK
Project Name: Lafarge East Point	Collection Date: 2/20/2015
Lab ID: 1502H55-016	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	203707	1	02/25/2015 21:40	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	203707	1	02/25/2015 21:40	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	203707	1	02/25/2015 21:40	NP
1,1-Dichloroethane	BRL	5.0		ug/L	203707	1	02/25/2015 21:40	NP
1,1-Dichloroethene	BRL	5.0		ug/L	203707	1	02/25/2015 21:40	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	203707	1	02/25/2015 21:40	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	203707	1	02/25/2015 21:40	NP
1,2-Dibromoethane	BRL	5.0		ug/L	203707	1	02/25/2015 21:40	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	203707	1	02/25/2015 21:40	NP
1,2-Dichloroethane	BRL	5.0		ug/L	203707	1	02/25/2015 21:40	NP
1,2-Dichloropropane	BRL	5.0		ug/L	203707	1	02/25/2015 21:40	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	203707	1	02/25/2015 21:40	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	203707	1	02/25/2015 21:40	NP
2-Butanone	BRL	50		ug/L	203707	1	02/25/2015 21:40	NP
2-Hexanone	BRL	10		ug/L	203707	1	02/25/2015 21:40	NP
4-Methyl-2-pentanone	BRL	10		ug/L	203707	1	02/25/2015 21:40	NP
Acetone	BRL	50		ug/L	203707	1	02/25/2015 21:40	NP
Benzene	BRL	5.0		ug/L	203707	1	02/25/2015 21:40	NP
Bromodichloromethane	BRL	5.0		ug/L	203707	1	02/25/2015 21:40	NP
Bromoform	BRL	5.0		ug/L	203707	1	02/25/2015 21:40	NP
Bromomethane	BRL	5.0		ug/L	203707	1	02/25/2015 21:40	NP
Carbon disulfide	BRL	5.0		ug/L	203707	1	02/25/2015 21:40	NP
Carbon tetrachloride	BRL	5.0		ug/L	203707	1	02/25/2015 21:40	NP
Chlorobenzene	BRL	5.0		ug/L	203707	1	02/25/2015 21:40	NP
Chloroethane	BRL	10		ug/L	203707	1	02/25/2015 21:40	NP
Chloroform	BRL	5.0		ug/L	203707	1	02/25/2015 21:40	NP
Chloromethane	BRL	10		ug/L	203707	1	02/25/2015 21:40	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	203707	1	02/25/2015 21:40	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	203707	1	02/25/2015 21:40	NP
Cyclohexane	BRL	5.0		ug/L	203707	1	02/25/2015 21:40	NP
Dibromochloromethane	BRL	5.0		ug/L	203707	1	02/25/2015 21:40	NP
Dichlorodifluoromethane	BRL	10		ug/L	203707	1	02/25/2015 21:40	NP
Ethylbenzene	BRL	5.0		ug/L	203707	1	02/25/2015 21:40	NP
Freon-113	BRL	10		ug/L	203707	1	02/25/2015 21:40	NP
Isopropylbenzene	BRL	5.0		ug/L	203707	1	02/25/2015 21:40	NP
m,p-Xylene	BRL	5.0		ug/L	203707	1	02/25/2015 21:40	NP
Methyl acetate	BRL	5.0		ug/L	203707	1	02/25/2015 21:40	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	203707	1	02/25/2015 21:40	NP
Methylcyclohexane	BRL	5.0		ug/L	203707	1	02/25/2015 21:40	NP
Methylene chloride	BRL	5.0		ug/L	203707	1	02/25/2015 21:40	NP
o-Xylene	BRL	5.0		ug/L	203707	1	02/25/2015 21:40	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: TRIP BLANK
Project Name: Lafarge East Point	Collection Date: 2/20/2015
Lab ID: 1502H55-016	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	203707	1	02/25/2015 21:40	NP
Tetrachloroethene	BRL	5.0		ug/L	203707	1	02/25/2015 21:40	NP
Toluene	BRL	5.0		ug/L	203707	1	02/25/2015 21:40	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	203707	1	02/25/2015 21:40	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	203707	1	02/25/2015 21:40	NP
Trichloroethene	BRL	5.0		ug/L	203707	1	02/25/2015 21:40	NP
Trichlorofluoromethane	BRL	5.0		ug/L	203707	1	02/25/2015 21:40	NP
Vinyl chloride	BRL	2.0		ug/L	203707	1	02/25/2015 21:40	NP
Surr: 4-Bromofluorobenzene	96	70.6-123		%REC	203707	1	02/25/2015 21:40	NP
Surr: Dibromofluoromethane	95.2	78.7-124		%REC	203707	1	02/25/2015 21:40	NP
Surr: Toluene-d8	96.4	81.3-120		%REC	203707	1	02/25/2015 21:40	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Arcadis-Atlanta

Work Order Number 1502H55

Checklist completed by Kate Johnson 2/20/15
Signature Date

Carrier name: FedEx UPS Courier Client US Mail Other

Shipping container/cooler in good condition? Yes No Not Present

Custody seals intact on shipping container/cooler? Yes No Not Present

Custody seals intact on sample bottles? Yes No Not Present

Container/Temp Blank temperature in compliance? (0°≤6°C)* Yes No

Cooler #1 3.4PC Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present? Yes No

Chain of custody signed when relinquished and received? Yes No

Chain of custody agrees with sample labels? Yes No

Samples in proper container/bottle? Yes No

Sample containers intact? Yes No

Sufficient sample volume for indicated test? Yes No

All samples received within holding time? Yes No

Was TAT marked on the COC? Yes No

Proceed with Standard TAT as per project history? Yes No Not Applicable

Water - VOA vials have zero headspace? No VOA vials submitted Yes No

Water - pH acceptable upon receipt? Yes No Not Applicable

Adjusted? _____ Checked by _____

Sample Condition: Good Other(Explain) _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes No

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

Client: Arcadis
 Project Name: Lafarge East Point
 Workorder: 1502H55

ANALYTICAL QC SUMMARY REPORT

BatchID: 203707

Sample ID: MB-203707	Client ID:	Units: ug/L	Prep Date: 02/25/2015	Run No: 286537							
Sample Type: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 203707	Analysis Date: 02/25/2015	Seq No: 6082584							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
2-Butanone	BRL	50									
2-Hexanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	50									
Benzene	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon disulfide	BRL	5.0									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									
Chloroform	BRL	5.0									
Chloromethane	BRL	10									

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
 Project Name: Lafarge East Point
 Workorder: 1502H55

ANALYTICAL QC SUMMARY REPORT

BatchID: 203707

Sample ID: MB-203707	Client ID:	Units: ug/L	Prep Date: 02/25/2015	Run No: 286537							
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 203707	Analysis Date: 02/25/2015	Seq No: 6082584							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	5.0									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	2.0									
Surr: 4-Bromofluorobenzene	47.68	0	50.00		95.4	70.6	123				
Surr: Dibromofluoromethane	47.79	0	50.00		95.6	78.7	124				
Surr: Toluene-d8	48.61	0	50.00		97.2	81.3	120				

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
Project Name: Lafarge East Point
Workorder: 1502H55

ANALYTICAL QC SUMMARY REPORT

BatchID: 203707

Sample ID: LCS-203707	Client ID:	Units: ug/L	Prep Date: 02/25/2015	Run No: 286537							
SampleType: LCS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 203707	Analysis Date: 02/25/2015	Seq No: 6082583							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	42.18	5.0	50.00		84.4	64.2	137				
Benzene	46.06	5.0	50.00		92.1	72.8	128				
Chlorobenzene	48.62	5.0	50.00		97.2	72.3	126				
Toluene	47.07	5.0	50.00		94.1	74.9	127				
Trichloroethene	47.90	5.0	50.00		95.8	70.5	134				
Surr: 4-Bromofluorobenzene	46.92	0	50.00		93.8	70.6	123				
Surr: Dibromofluoromethane	46.53	0	50.00		93.1	78.7	124				
Surr: Toluene-d8	47.37	0	50.00		94.7	81.3	120				

Sample ID: 1502H55-009AMS	Client ID: MW-32(021815)	Units: ug/L	Prep Date: 02/25/2015	Run No: 286537							
SampleType: MS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 203707	Analysis Date: 02/25/2015	Seq No: 6082587							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	235500	25000	250000		94.2	60.5	156				
Benzene	247200	25000	250000		98.9	70	135				
Chlorobenzene	258400	25000	250000		103	70.5	132				
Toluene	246600	25000	250000		98.6	70.5	137				
Trichloroethene	303900	25000	250000	55200	99.5	71.8	139				
Surr: 4-Bromofluorobenzene	236800	0	250000		94.7	70.6	123				
Surr: Dibromofluoromethane	234200	0	250000		93.7	78.7	124				
Surr: Toluene-d8	234900	0	250000		93.9	81.3	120				

Sample ID: 1502H55-009AMSD	Client ID: MW-32(021815)	Units: ug/L	Prep Date: 02/25/2015	Run No: 286537							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 203707	Analysis Date: 02/25/2015	Seq No: 6082589							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	231700	25000	250000		92.7	60.5	156	235500	1.61	20	
Benzene	245800	25000	250000		98.3	70	135	247200	0.588	20	

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Arcadis
 Project Name: Lafarge East Point
 Workorder: 1502H55

ANALYTICAL QC SUMMARY REPORT

BatchID: 203707

Sample ID: 1502H55-009AMSD Client ID: MW-32(021815) Units: ug/L Prep Date: 02/25/2015 Run No: 286537
 SampleType: MSD TestCode: TCL VOLATILE ORGANICS SW8260B BatchID: 203707 Analysis Date: 02/25/2015 Seq No: 6082589

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	256900	25000	250000		103	70.5	132	258400	0.582	20	
Toluene	243000	25000	250000		97.2	70.5	137	246600	1.47	20	
Trichloroethene	302000	25000	250000	55200	98.7	71.8	139	303900	0.627	20	
Surr: 4-Bromofluorobenzene	240300	0	250000		96.1	70.6	123	236800	0	0	
Surr: Dibromofluoromethane	240500	0	250000		96.2	78.7	124	234200	0	0	
Surr: Toluene-d8	236500	0	250000		94.6	81.3	120	234900	0	0	

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

December 03, 2014

Greg Sitomer
Arcadis
1000 Cobb Place Blvd., Bldg. 500-A
Kennesaw GA 30144

TEL: (770) 431-8666
FAX: (770) 435-2666

RE: Lafarge

Dear Greg Sitomer:

Order No: 1411156

Analytical Environmental Services, Inc. received 27 samples on November 21, 2014 12:20 pm for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/14-06/30/15.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/15.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Chantelle Kanhai
Project Manager

50 Presidential Drive, Atlanta GA 30340-3704

TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

Date: 11/21/14 Page 1 of 2

COMPANY: AECADIS		ADDRESS: 1000 Cobb Place Blvd Bldg 500-A				ANALYSIS REQUESTED										Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.		No # of Containers	
PHONE: 770-928-9009		FAX:				PRESERVATION (See codes)										REMARKS			
SAMPLED BY: Mar Myer		SIGNATURE: <i>[Signature]</i>				VOCs Total Metals (Lead)													
#	SAMPLE ID	SAMPLED		Grab	Composite	Matrix (See codes)	PRESERVATION (See codes)										REMARKS		
		DATE	TIME				1	2	3	4	5	6	7	8	9	10			11
1	MW-31 (11/20/14)	11/20/14	1705	f		GW	3	3											
2	MW-29 (11/20/14)	11/20	10:5	f		GW	3	3											
3	MW-28 (11/20/14)	11/20	10:55	x		GW	3	3											
4	MW-11 (11/20/14)	11/20	11:45	f		GW	3	3											
5	MW-27 (11/20/14)	11/20	12:50	K		GW	3	3											
6	MW-26 (11/20/14)	11/20	13:35	x		GW	3	3											
7	MW-36 (11/20/14)	11/20	15:00	x		GW	3	3											
8	MW-32 (11/20/14)	11/20	16:15	K		GW	3	3											
9	MW-17 (11/19/14)	11/19	15:55	x		GW	3	3											
10	MW-27 (11/19/14)	11/19	15:20	x		GW	3	3											
11	MW-23 (11/18/14)	11/18	11:20	x		GW	3	3											
12	MW-24 (11/19/14)	11/19	10:10	f		GW	3	3											
13	MW-15 (11/19/14)	11/19	11:05	x		GW	3	3											
14	MW-16 (11/19/14)	11/19	12:05	x		GW	3	3											
RELINQUISHED BY		DATE/TIME		RECEIVED BY		DATE/TIME		PROJECT INFORMATION										RECEIPT	
1: Mar Myer		11-21-14 / 12:20		1: Catoya Reeves		11/21/14 12:20		PROJECT NAME: <u>Latage</u>										Total # of Containers: <u>43</u>	
2:				2:				PROJECT #:										Turnaround Time Request	
3:				3:				SITE ADDRESS: <u>Marine Rd. East Point GA</u>										<input checked="" type="radio"/> Standard 5 Business Days	
SPECIAL INSTRUCTIONS/COMMENTS:				SHIPMENT METHOD				SEND REPORT TO: <u>Gregory Sitomer @ aecadis-us.com</u>										<input type="radio"/> 2 Business Day Rush	
				OUT / / VIA:				INVOICE TO:										<input type="radio"/> Next Business Day Rush	
				IN / / VIA:				(IF DIFFERENT FROM ABOVE)										<input type="radio"/> Same Day Rush (auth req.)	
				CLIENT FedEx UPS MAIL COURIER				QUOTE #:										<input type="radio"/> Other	
				OR BY HAND OTHER				PO#:										STATE PROGRAM (if any):	
																		E-mail? Y/N; Fax? Y/N	
																		DATA PACKAGE: I II III IV	

Client: Arcadis
Project: Lafarge
Lab ID: 1411156

Case Narrative

Volatile Organic Compounds Analysis by Method 8260B:

Percent recovery for the internal standard compound 1,4-Difluorobenzene on sample 1411156-008A was outside control limits biased low due to suspected matrix interference.

1,2,4-Trichlorobenzene was detected in Method Blank 199803 at 6.17 ug/L which was above reporting limit of 5 ug/L resulting in "B" qualified data for the Batch QC samples. Associated sample values were less than reporting limit and data is reportable with high bias.

Analytical Environmental Services, Inc

Date: 3-Dec-14

Client: Arcadis	Client Sample ID: MW-31 (112014)
Project Name: Lafarge	Collection Date: 11/20/2014 5:05:00 PM
Lab ID: 1411156-001	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Metals by ICP E200.7		(E200.7)						
Lead	BRL	0.0100		mg/L	199776	1	11/26/2014 22:17	JL
TCL VOLATILE ORGANICS SW8260B		(SW5030B)						
1,1,1-Trichloroethane	BRL	5.0		ug/L	199803	1	11/28/2014 21:49	AR
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	199803	1	11/28/2014 21:49	AR
1,1,2-Trichloroethane	BRL	5.0		ug/L	199803	1	11/28/2014 21:49	AR
1,1-Dichloroethane	BRL	5.0		ug/L	199803	1	11/28/2014 21:49	AR
1,1-Dichloroethene	BRL	5.0		ug/L	199803	1	11/28/2014 21:49	AR
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	199803	1	11/28/2014 21:49	AR
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	199803	1	11/28/2014 21:49	AR
1,2-Dibromoethane	BRL	5.0		ug/L	199803	1	11/28/2014 21:49	AR
1,2-Dichlorobenzene	BRL	5.0		ug/L	199803	1	11/28/2014 21:49	AR
1,2-Dichloroethane	BRL	5.0		ug/L	199803	1	11/28/2014 21:49	AR
1,2-Dichloropropane	BRL	5.0		ug/L	199803	1	11/28/2014 21:49	AR
1,3-Dichlorobenzene	BRL	5.0		ug/L	199803	1	11/28/2014 21:49	AR
1,4-Dichlorobenzene	BRL	5.0		ug/L	199803	1	11/28/2014 21:49	AR
2-Butanone	BRL	50		ug/L	199803	1	11/28/2014 21:49	AR
2-Hexanone	BRL	10		ug/L	199803	1	11/28/2014 21:49	AR
4-Methyl-2-pentanone	BRL	10		ug/L	199803	1	11/28/2014 21:49	AR
Acetone	BRL	50		ug/L	199803	1	11/28/2014 21:49	AR
Benzene	BRL	5.0		ug/L	199803	1	11/28/2014 21:49	AR
Bromodichloromethane	BRL	5.0		ug/L	199803	1	11/28/2014 21:49	AR
Bromoform	BRL	5.0		ug/L	199803	1	11/28/2014 21:49	AR
Bromomethane	BRL	5.0		ug/L	199803	1	11/28/2014 21:49	AR
Carbon disulfide	BRL	5.0		ug/L	199803	1	11/28/2014 21:49	AR
Carbon tetrachloride	BRL	5.0		ug/L	199803	1	11/28/2014 21:49	AR
Chlorobenzene	BRL	5.0		ug/L	199803	1	11/28/2014 21:49	AR
Chloroethane	BRL	10		ug/L	199803	1	11/28/2014 21:49	AR
Chloroform	BRL	5.0		ug/L	199803	1	11/28/2014 21:49	AR
Chloromethane	BRL	10		ug/L	199803	1	11/28/2014 21:49	AR
cis-1,2-Dichloroethene	6.0	5.0		ug/L	199803	1	11/28/2014 21:49	AR
cis-1,3-Dichloropropene	BRL	5.0		ug/L	199803	1	11/28/2014 21:49	AR
Cyclohexane	BRL	5.0		ug/L	199803	1	11/28/2014 21:49	AR
Dibromochloromethane	BRL	5.0		ug/L	199803	1	11/28/2014 21:49	AR
Dichlorodifluoromethane	BRL	10		ug/L	199803	1	11/28/2014 21:49	AR
Ethylbenzene	BRL	5.0		ug/L	199803	1	11/28/2014 21:49	AR
Freon-113	BRL	10		ug/L	199803	1	11/28/2014 21:49	AR
Isopropylbenzene	BRL	5.0		ug/L	199803	1	11/28/2014 21:49	AR
m,p-Xylene	BRL	5.0		ug/L	199803	1	11/28/2014 21:49	AR
Methyl acetate	BRL	5.0		ug/L	199803	1	11/28/2014 21:49	AR
Methyl tert-butyl ether	BRL	5.0		ug/L	199803	1	11/28/2014 21:49	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: MW-29 (112014)
Project Name: Lafarge	Collection Date: 11/20/2014 10:15:00 AM
Lab ID: 1411156-002	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	199803	1	11/28/2014 23:41	AR
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	199803	1	11/28/2014 23:41	AR
1,1,2-Trichloroethane	BRL	5.0		ug/L	199803	1	11/28/2014 23:41	AR
1,1-Dichloroethane	BRL	5.0		ug/L	199803	1	11/28/2014 23:41	AR
1,1-Dichloroethene	BRL	5.0		ug/L	199803	1	11/28/2014 23:41	AR
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	199803	1	11/28/2014 23:41	AR
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	199803	1	11/28/2014 23:41	AR
1,2-Dibromoethane	BRL	5.0		ug/L	199803	1	11/28/2014 23:41	AR
1,2-Dichlorobenzene	BRL	5.0		ug/L	199803	1	11/28/2014 23:41	AR
1,2-Dichloroethane	BRL	5.0		ug/L	199803	1	11/28/2014 23:41	AR
1,2-Dichloropropane	BRL	5.0		ug/L	199803	1	11/28/2014 23:41	AR
1,3-Dichlorobenzene	BRL	5.0		ug/L	199803	1	11/28/2014 23:41	AR
1,4-Dichlorobenzene	BRL	5.0		ug/L	199803	1	11/28/2014 23:41	AR
2-Butanone	BRL	50		ug/L	199803	1	11/28/2014 23:41	AR
2-Hexanone	BRL	10		ug/L	199803	1	11/28/2014 23:41	AR
4-Methyl-2-pentanone	BRL	10		ug/L	199803	1	11/28/2014 23:41	AR
Acetone	BRL	50		ug/L	199803	1	11/28/2014 23:41	AR
Benzene	BRL	5.0		ug/L	199803	1	11/28/2014 23:41	AR
Bromodichloromethane	BRL	5.0		ug/L	199803	1	11/28/2014 23:41	AR
Bromoform	BRL	5.0		ug/L	199803	1	11/28/2014 23:41	AR
Bromomethane	BRL	5.0		ug/L	199803	1	11/28/2014 23:41	AR
Carbon disulfide	BRL	5.0		ug/L	199803	1	11/28/2014 23:41	AR
Carbon tetrachloride	BRL	5.0		ug/L	199803	1	11/28/2014 23:41	AR
Chlorobenzene	BRL	5.0		ug/L	199803	1	11/28/2014 23:41	AR
Chloroethane	BRL	10		ug/L	199803	1	11/28/2014 23:41	AR
Chloroform	BRL	5.0		ug/L	199803	1	11/28/2014 23:41	AR
Chloromethane	BRL	10		ug/L	199803	1	11/28/2014 23:41	AR
cis-1,2-Dichloroethene	2900	100		ug/L	199803	20	11/30/2014 19:18	GC
cis-1,3-Dichloropropene	BRL	5.0		ug/L	199803	1	11/28/2014 23:41	AR
Cyclohexane	BRL	5.0		ug/L	199803	1	11/28/2014 23:41	AR
Dibromochloromethane	BRL	5.0		ug/L	199803	1	11/28/2014 23:41	AR
Dichlorodifluoromethane	BRL	10		ug/L	199803	1	11/28/2014 23:41	AR
Ethylbenzene	BRL	5.0		ug/L	199803	1	11/28/2014 23:41	AR
Freon-113	BRL	10		ug/L	199803	1	11/28/2014 23:41	AR
Isopropylbenzene	BRL	5.0		ug/L	199803	1	11/28/2014 23:41	AR
m,p-Xylene	BRL	5.0		ug/L	199803	1	11/28/2014 23:41	AR
Methyl acetate	BRL	5.0		ug/L	199803	1	11/28/2014 23:41	AR
Methyl tert-butyl ether	BRL	5.0		ug/L	199803	1	11/28/2014 23:41	AR
Methylcyclohexane	BRL	5.0		ug/L	199803	1	11/28/2014 23:41	AR
Methylene chloride	BRL	5.0		ug/L	199803	1	11/28/2014 23:41	AR
o-Xylene	BRL	5.0		ug/L	199803	1	11/28/2014 23:41	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: MW-29 (112014)
Project Name: Lafarge	Collection Date: 11/20/2014 10:15:00 AM
Lab ID: 1411156-002	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	199803	1	11/28/2014 23:41	AR
Tetrachloroethene	BRL	5.0		ug/L	199803	1	11/28/2014 23:41	AR
Toluene	BRL	5.0		ug/L	199803	1	11/28/2014 23:41	AR
trans-1,2-Dichloroethene	BRL	5.0		ug/L	199803	1	11/28/2014 23:41	AR
trans-1,3-Dichloropropene	BRL	5.0		ug/L	199803	1	11/28/2014 23:41	AR
Trichloroethene	480	100		ug/L	199803	20	11/30/2014 19:18	GC
Trichlorofluoromethane	BRL	5.0		ug/L	199803	1	11/28/2014 23:41	AR
Vinyl chloride	23	2.0		ug/L	199803	1	11/28/2014 23:41	AR
Surr: 4-Bromofluorobenzene	78.6	70.6-123		%REC	199803	1	11/28/2014 23:41	AR
Surr: 4-Bromofluorobenzene	80.3	70.6-123		%REC	199803	20	11/30/2014 19:18	GC
Surr: Dibromofluoromethane	109	78.7-124		%REC	199803	20	11/30/2014 19:18	GC
Surr: Dibromofluoromethane	103	78.7-124		%REC	199803	1	11/28/2014 23:41	AR
Surr: Toluene-d8	112	81.3-120		%REC	199803	20	11/30/2014 19:18	GC
Surr: Toluene-d8	106	81.3-120		%REC	199803	1	11/28/2014 23:41	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: MW-28 (112014)
Project Name: Lafarge	Collection Date: 11/20/2014 10:55:00 AM
Lab ID: 1411156-003	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	199803	1	11/29/2014 00:09	AR
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	199803	1	11/29/2014 00:09	AR
1,1,2-Trichloroethane	BRL	5.0		ug/L	199803	1	11/29/2014 00:09	AR
1,1-Dichloroethane	BRL	5.0		ug/L	199803	1	11/29/2014 00:09	AR
1,1-Dichloroethene	BRL	5.0		ug/L	199803	1	11/29/2014 00:09	AR
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	199803	1	11/29/2014 00:09	AR
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	199803	1	11/29/2014 00:09	AR
1,2-Dibromoethane	BRL	5.0		ug/L	199803	1	11/29/2014 00:09	AR
1,2-Dichlorobenzene	BRL	5.0		ug/L	199803	1	11/29/2014 00:09	AR
1,2-Dichloroethane	BRL	5.0		ug/L	199803	1	11/29/2014 00:09	AR
1,2-Dichloropropane	BRL	5.0		ug/L	199803	1	11/29/2014 00:09	AR
1,3-Dichlorobenzene	BRL	5.0		ug/L	199803	1	11/29/2014 00:09	AR
1,4-Dichlorobenzene	BRL	5.0		ug/L	199803	1	11/29/2014 00:09	AR
2-Butanone	BRL	50		ug/L	199803	1	11/29/2014 00:09	AR
2-Hexanone	BRL	10		ug/L	199803	1	11/29/2014 00:09	AR
4-Methyl-2-pentanone	BRL	10		ug/L	199803	1	11/29/2014 00:09	AR
Acetone	BRL	50		ug/L	199803	1	11/29/2014 00:09	AR
Benzene	BRL	5.0		ug/L	199803	1	11/29/2014 00:09	AR
Bromodichloromethane	BRL	5.0		ug/L	199803	1	11/29/2014 00:09	AR
Bromoform	BRL	5.0		ug/L	199803	1	11/29/2014 00:09	AR
Bromomethane	BRL	5.0		ug/L	199803	1	11/29/2014 00:09	AR
Carbon disulfide	BRL	5.0		ug/L	199803	1	11/29/2014 00:09	AR
Carbon tetrachloride	BRL	5.0		ug/L	199803	1	11/29/2014 00:09	AR
Chlorobenzene	BRL	5.0		ug/L	199803	1	11/29/2014 00:09	AR
Chloroethane	BRL	10		ug/L	199803	1	11/29/2014 00:09	AR
Chloroform	BRL	5.0		ug/L	199803	1	11/29/2014 00:09	AR
Chloromethane	BRL	10		ug/L	199803	1	11/29/2014 00:09	AR
cis-1,2-Dichloroethene	2000	100		ug/L	199803	20	11/30/2014 19:46	GC
cis-1,3-Dichloropropene	BRL	5.0		ug/L	199803	1	11/29/2014 00:09	AR
Cyclohexane	BRL	5.0		ug/L	199803	1	11/29/2014 00:09	AR
Dibromochloromethane	BRL	5.0		ug/L	199803	1	11/29/2014 00:09	AR
Dichlorodifluoromethane	BRL	10		ug/L	199803	1	11/29/2014 00:09	AR
Ethylbenzene	BRL	5.0		ug/L	199803	1	11/29/2014 00:09	AR
Freon-113	BRL	10		ug/L	199803	1	11/29/2014 00:09	AR
Isopropylbenzene	BRL	5.0		ug/L	199803	1	11/29/2014 00:09	AR
m,p-Xylene	BRL	5.0		ug/L	199803	1	11/29/2014 00:09	AR
Methyl acetate	BRL	5.0		ug/L	199803	1	11/29/2014 00:09	AR
Methyl tert-butyl ether	BRL	5.0		ug/L	199803	1	11/29/2014 00:09	AR
Methylcyclohexane	BRL	5.0		ug/L	199803	1	11/29/2014 00:09	AR
Methylene chloride	BRL	5.0		ug/L	199803	1	11/29/2014 00:09	AR
o-Xylene	BRL	5.0		ug/L	199803	1	11/29/2014 00:09	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: MW-28 (112014)
Project Name: Lafarge	Collection Date: 11/20/2014 10:55:00 AM
Lab ID: 1411156-003	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	199803	1	11/29/2014 00:09	AR
Tetrachloroethene	BRL	5.0		ug/L	199803	1	11/29/2014 00:09	AR
Toluene	BRL	5.0		ug/L	199803	1	11/29/2014 00:09	AR
trans-1,2-Dichloroethene	BRL	5.0		ug/L	199803	1	11/29/2014 00:09	AR
trans-1,3-Dichloropropene	BRL	5.0		ug/L	199803	1	11/29/2014 00:09	AR
Trichloroethene	470	100		ug/L	199803	20	11/30/2014 19:46	GC
Trichlorofluoromethane	BRL	5.0		ug/L	199803	1	11/29/2014 00:09	AR
Vinyl chloride	9.2	2.0		ug/L	199803	1	11/29/2014 00:09	AR
Surr: 4-Bromofluorobenzene	75.5	70.6-123		%REC	199803	1	11/29/2014 00:09	AR
Surr: 4-Bromofluorobenzene	88.9	70.6-123		%REC	199803	20	11/30/2014 19:46	GC
Surr: Dibromofluoromethane	109	78.7-124		%REC	199803	20	11/30/2014 19:46	GC
Surr: Dibromofluoromethane	99.6	78.7-124		%REC	199803	1	11/29/2014 00:09	AR
Surr: Toluene-d8	109	81.3-120		%REC	199803	20	11/30/2014 19:46	GC
Surr: Toluene-d8	103	81.3-120		%REC	199803	1	11/29/2014 00:09	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: MW-11 (112014)
Project Name: Lafarge	Collection Date: 11/20/2014 11:45:00 AM
Lab ID: 1411156-004	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	199803	1	11/28/2014 19:29	AR
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	199803	1	11/28/2014 19:29	AR
1,1,2-Trichloroethane	BRL	5.0		ug/L	199803	1	11/28/2014 19:29	AR
1,1-Dichloroethane	BRL	5.0		ug/L	199803	1	11/28/2014 19:29	AR
1,1-Dichloroethene	BRL	5.0		ug/L	199803	1	11/28/2014 19:29	AR
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	199803	1	11/28/2014 19:29	AR
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	199803	1	11/28/2014 19:29	AR
1,2-Dibromoethane	BRL	5.0		ug/L	199803	1	11/28/2014 19:29	AR
1,2-Dichlorobenzene	BRL	5.0		ug/L	199803	1	11/28/2014 19:29	AR
1,2-Dichloroethane	BRL	5.0		ug/L	199803	1	11/28/2014 19:29	AR
1,2-Dichloropropane	BRL	5.0		ug/L	199803	1	11/28/2014 19:29	AR
1,3-Dichlorobenzene	BRL	5.0		ug/L	199803	1	11/28/2014 19:29	AR
1,4-Dichlorobenzene	BRL	5.0		ug/L	199803	1	11/28/2014 19:29	AR
2-Butanone	BRL	50		ug/L	199803	1	11/28/2014 19:29	AR
2-Hexanone	BRL	10		ug/L	199803	1	11/28/2014 19:29	AR
4-Methyl-2-pentanone	BRL	10		ug/L	199803	1	11/28/2014 19:29	AR
Acetone	BRL	50		ug/L	199803	1	11/28/2014 19:29	AR
Benzene	BRL	5.0		ug/L	199803	1	11/28/2014 19:29	AR
Bromodichloromethane	BRL	5.0		ug/L	199803	1	11/28/2014 19:29	AR
Bromoform	BRL	5.0		ug/L	199803	1	11/28/2014 19:29	AR
Bromomethane	BRL	5.0		ug/L	199803	1	11/28/2014 19:29	AR
Carbon disulfide	BRL	5.0		ug/L	199803	1	11/28/2014 19:29	AR
Carbon tetrachloride	BRL	5.0		ug/L	199803	1	11/28/2014 19:29	AR
Chlorobenzene	BRL	5.0		ug/L	199803	1	11/28/2014 19:29	AR
Chloroethane	BRL	10		ug/L	199803	1	11/28/2014 19:29	AR
Chloroform	BRL	5.0		ug/L	199803	1	11/28/2014 19:29	AR
Chloromethane	BRL	10		ug/L	199803	1	11/28/2014 19:29	AR
cis-1,2-Dichloroethene	7.6	5.0		ug/L	199803	1	11/28/2014 19:29	AR
cis-1,3-Dichloropropene	BRL	5.0		ug/L	199803	1	11/28/2014 19:29	AR
Cyclohexane	BRL	5.0		ug/L	199803	1	11/28/2014 19:29	AR
Dibromochloromethane	BRL	5.0		ug/L	199803	1	11/28/2014 19:29	AR
Dichlorodifluoromethane	BRL	10		ug/L	199803	1	11/28/2014 19:29	AR
Ethylbenzene	BRL	5.0		ug/L	199803	1	11/28/2014 19:29	AR
Freon-113	BRL	10		ug/L	199803	1	11/28/2014 19:29	AR
Isopropylbenzene	BRL	5.0		ug/L	199803	1	11/28/2014 19:29	AR
m,p-Xylene	BRL	5.0		ug/L	199803	1	11/28/2014 19:29	AR
Methyl acetate	BRL	5.0		ug/L	199803	1	11/28/2014 19:29	AR
Methyl tert-butyl ether	BRL	5.0		ug/L	199803	1	11/28/2014 19:29	AR
Methylcyclohexane	BRL	5.0		ug/L	199803	1	11/28/2014 19:29	AR
Methylene chloride	BRL	5.0		ug/L	199803	1	11/28/2014 19:29	AR
o-Xylene	BRL	5.0		ug/L	199803	1	11/28/2014 19:29	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: MW-11 (112014)
Project Name: Lafarge	Collection Date: 11/20/2014 11:45:00 AM
Lab ID: 1411156-004	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5030B)			
Styrene	BRL	5.0		ug/L	199803	1	11/28/2014 19:29	AR
Tetrachloroethene	BRL	5.0		ug/L	199803	1	11/28/2014 19:29	AR
Toluene	BRL	5.0		ug/L	199803	1	11/28/2014 19:29	AR
trans-1,2-Dichloroethene	BRL	5.0		ug/L	199803	1	11/28/2014 19:29	AR
trans-1,3-Dichloropropene	BRL	5.0		ug/L	199803	1	11/28/2014 19:29	AR
Trichloroethene	BRL	5.0		ug/L	199803	1	11/28/2014 19:29	AR
Trichlorofluoromethane	BRL	5.0		ug/L	199803	1	11/28/2014 19:29	AR
Vinyl chloride	BRL	2.0		ug/L	199803	1	11/28/2014 19:29	AR
Surr: 4-Bromofluorobenzene	79.6	70.6-123		%REC	199803	1	11/28/2014 19:29	AR
Surr: Dibromofluoromethane	98.3	78.7-124		%REC	199803	1	11/28/2014 19:29	AR
Surr: Toluene-d8	102	81.3-120		%REC	199803	1	11/28/2014 19:29	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: MW-27 (112014)
Project Name: Lafarge	Collection Date: 11/20/2014 12:50:00 PM
Lab ID: 1411156-005	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	199803	1	11/29/2014 00:37	AR
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	199803	1	11/29/2014 00:37	AR
1,1,2-Trichloroethane	BRL	5.0		ug/L	199803	1	11/29/2014 00:37	AR
1,1-Dichloroethane	BRL	5.0		ug/L	199803	1	11/29/2014 00:37	AR
1,1-Dichloroethene	BRL	5.0		ug/L	199803	1	11/29/2014 00:37	AR
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	199803	1	11/29/2014 00:37	AR
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	199803	1	11/29/2014 00:37	AR
1,2-Dibromoethane	BRL	5.0		ug/L	199803	1	11/29/2014 00:37	AR
1,2-Dichlorobenzene	BRL	5.0		ug/L	199803	1	11/29/2014 00:37	AR
1,2-Dichloroethane	BRL	5.0		ug/L	199803	1	11/29/2014 00:37	AR
1,2-Dichloropropane	BRL	5.0		ug/L	199803	1	11/29/2014 00:37	AR
1,3-Dichlorobenzene	BRL	5.0		ug/L	199803	1	11/29/2014 00:37	AR
1,4-Dichlorobenzene	BRL	5.0		ug/L	199803	1	11/29/2014 00:37	AR
2-Butanone	BRL	50		ug/L	199803	1	11/29/2014 00:37	AR
2-Hexanone	BRL	10		ug/L	199803	1	11/29/2014 00:37	AR
4-Methyl-2-pentanone	BRL	10		ug/L	199803	1	11/29/2014 00:37	AR
Acetone	BRL	50		ug/L	199803	1	11/29/2014 00:37	AR
Benzene	BRL	5.0		ug/L	199803	1	11/29/2014 00:37	AR
Bromodichloromethane	BRL	5.0		ug/L	199803	1	11/29/2014 00:37	AR
Bromoform	BRL	5.0		ug/L	199803	1	11/29/2014 00:37	AR
Bromomethane	BRL	5.0		ug/L	199803	1	11/29/2014 00:37	AR
Carbon disulfide	BRL	5.0		ug/L	199803	1	11/29/2014 00:37	AR
Carbon tetrachloride	BRL	5.0		ug/L	199803	1	11/29/2014 00:37	AR
Chlorobenzene	BRL	5.0		ug/L	199803	1	11/29/2014 00:37	AR
Chloroethane	BRL	10		ug/L	199803	1	11/29/2014 00:37	AR
Chloroform	BRL	5.0		ug/L	199803	1	11/29/2014 00:37	AR
Chloromethane	BRL	10		ug/L	199803	1	11/29/2014 00:37	AR
cis-1,2-Dichloroethene	1100	50		ug/L	199803	10	11/30/2014 20:14	GC
cis-1,3-Dichloropropene	BRL	5.0		ug/L	199803	1	11/29/2014 00:37	AR
Cyclohexane	BRL	5.0		ug/L	199803	1	11/29/2014 00:37	AR
Dibromochloromethane	BRL	5.0		ug/L	199803	1	11/29/2014 00:37	AR
Dichlorodifluoromethane	BRL	10		ug/L	199803	1	11/29/2014 00:37	AR
Ethylbenzene	BRL	5.0		ug/L	199803	1	11/29/2014 00:37	AR
Freon-113	BRL	10		ug/L	199803	1	11/29/2014 00:37	AR
Isopropylbenzene	BRL	5.0		ug/L	199803	1	11/29/2014 00:37	AR
m,p-Xylene	BRL	5.0		ug/L	199803	1	11/29/2014 00:37	AR
Methyl acetate	BRL	5.0		ug/L	199803	1	11/29/2014 00:37	AR
Methyl tert-butyl ether	BRL	5.0		ug/L	199803	1	11/29/2014 00:37	AR
Methylcyclohexane	BRL	5.0		ug/L	199803	1	11/29/2014 00:37	AR
Methylene chloride	BRL	5.0		ug/L	199803	1	11/29/2014 00:37	AR
o-Xylene	BRL	5.0		ug/L	199803	1	11/29/2014 00:37	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: MW-27 (112014)
Project Name: Lafarge	Collection Date: 11/20/2014 12:50:00 PM
Lab ID: 1411156-005	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	199803	1	11/29/2014 00:37	AR
Tetrachloroethene	BRL	5.0		ug/L	199803	1	11/29/2014 00:37	AR
Toluene	BRL	5.0		ug/L	199803	1	11/29/2014 00:37	AR
trans-1,2-Dichloroethene	BRL	5.0		ug/L	199803	1	11/29/2014 00:37	AR
trans-1,3-Dichloropropene	BRL	5.0		ug/L	199803	1	11/29/2014 00:37	AR
Trichloroethene	69	5.0		ug/L	199803	1	11/29/2014 00:37	AR
Trichlorofluoromethane	BRL	5.0		ug/L	199803	1	11/29/2014 00:37	AR
Vinyl chloride	5.6	2.0		ug/L	199803	1	11/29/2014 00:37	AR
Surr: 4-Bromofluorobenzene	73.4	70.6-123		%REC	199803	1	11/29/2014 00:37	AR
Surr: 4-Bromofluorobenzene	82.7	70.6-123		%REC	199803	10	11/30/2014 20:14	GC
Surr: Dibromofluoromethane	101	78.7-124		%REC	199803	1	11/29/2014 00:37	AR
Surr: Dibromofluoromethane	103	78.7-124		%REC	199803	10	11/30/2014 20:14	GC
Surr: Toluene-d8	106	81.3-120		%REC	199803	1	11/29/2014 00:37	AR
Surr: Toluene-d8	108	81.3-120		%REC	199803	10	11/30/2014 20:14	GC

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: MW-26 (112014)
Project Name: Lafarge	Collection Date: 11/20/2014 1:35:00 PM
Lab ID: 1411156-006	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	199803	1	11/30/2014 17:53	GC
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	199803	1	11/30/2014 17:53	GC
1,1,2-Trichloroethane	BRL	5.0		ug/L	199803	1	11/30/2014 17:53	GC
1,1-Dichloroethane	BRL	5.0		ug/L	199803	1	11/30/2014 17:53	GC
1,1-Dichloroethene	BRL	5.0		ug/L	199803	1	11/30/2014 17:53	GC
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	199803	1	11/30/2014 17:53	GC
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	199803	1	11/30/2014 17:53	GC
1,2-Dibromoethane	BRL	5.0		ug/L	199803	1	11/30/2014 17:53	GC
1,2-Dichlorobenzene	BRL	5.0		ug/L	199803	1	11/30/2014 17:53	GC
1,2-Dichloroethane	BRL	5.0		ug/L	199803	1	11/30/2014 17:53	GC
1,2-Dichloropropane	BRL	5.0		ug/L	199803	1	11/30/2014 17:53	GC
1,3-Dichlorobenzene	BRL	5.0		ug/L	199803	1	11/30/2014 17:53	GC
1,4-Dichlorobenzene	BRL	5.0		ug/L	199803	1	11/30/2014 17:53	GC
2-Butanone	BRL	50		ug/L	199803	1	11/30/2014 17:53	GC
2-Hexanone	BRL	10		ug/L	199803	1	11/30/2014 17:53	GC
4-Methyl-2-pentanone	BRL	10		ug/L	199803	1	11/30/2014 17:53	GC
Acetone	BRL	50		ug/L	199803	1	11/30/2014 17:53	GC
Benzene	BRL	5.0		ug/L	199803	1	11/30/2014 17:53	GC
Bromodichloromethane	BRL	5.0		ug/L	199803	1	11/30/2014 17:53	GC
Bromoform	BRL	5.0		ug/L	199803	1	11/30/2014 17:53	GC
Bromomethane	BRL	5.0		ug/L	199803	1	11/30/2014 17:53	GC
Carbon disulfide	BRL	5.0		ug/L	199803	1	11/30/2014 17:53	GC
Carbon tetrachloride	BRL	5.0		ug/L	199803	1	11/30/2014 17:53	GC
Chlorobenzene	BRL	5.0		ug/L	199803	1	11/30/2014 17:53	GC
Chloroethane	BRL	10		ug/L	199803	1	11/30/2014 17:53	GC
Chloroform	BRL	5.0		ug/L	199803	1	11/30/2014 17:53	GC
Chloromethane	BRL	10		ug/L	199803	1	11/30/2014 17:53	GC
cis-1,2-Dichloroethene	120	5.0		ug/L	199803	1	11/30/2014 17:53	GC
cis-1,3-Dichloropropene	BRL	5.0		ug/L	199803	1	11/30/2014 17:53	GC
Cyclohexane	BRL	5.0		ug/L	199803	1	11/30/2014 17:53	GC
Dibromochloromethane	BRL	5.0		ug/L	199803	1	11/30/2014 17:53	GC
Dichlorodifluoromethane	BRL	10		ug/L	199803	1	11/30/2014 17:53	GC
Ethylbenzene	BRL	5.0		ug/L	199803	1	11/30/2014 17:53	GC
Freon-113	BRL	10		ug/L	199803	1	11/30/2014 17:53	GC
Isopropylbenzene	BRL	5.0		ug/L	199803	1	11/30/2014 17:53	GC
m,p-Xylene	BRL	5.0		ug/L	199803	1	11/30/2014 17:53	GC
Methyl acetate	BRL	5.0		ug/L	199803	1	11/30/2014 17:53	GC
Methyl tert-butyl ether	BRL	5.0		ug/L	199803	1	11/30/2014 17:53	GC
Methylcyclohexane	BRL	5.0		ug/L	199803	1	11/30/2014 17:53	GC
Methylene chloride	BRL	5.0		ug/L	199803	1	11/30/2014 17:53	GC
o-Xylene	BRL	5.0		ug/L	199803	1	11/30/2014 17:53	GC

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: MW-26 (112014)
Project Name: Lafarge	Collection Date: 11/20/2014 1:35:00 PM
Lab ID: 1411156-006	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	199803	1	11/30/2014 17:53	GC
Tetrachloroethene	BRL	5.0		ug/L	199803	1	11/30/2014 17:53	GC
Toluene	BRL	5.0		ug/L	199803	1	11/30/2014 17:53	GC
trans-1,2-Dichloroethene	BRL	5.0		ug/L	199803	1	11/30/2014 17:53	GC
trans-1,3-Dichloropropene	BRL	5.0		ug/L	199803	1	11/30/2014 17:53	GC
Trichloroethene	13	5.0		ug/L	199803	1	11/30/2014 17:53	GC
Trichlorofluoromethane	BRL	5.0		ug/L	199803	1	11/30/2014 17:53	GC
Vinyl chloride	BRL	2.0		ug/L	199803	1	11/30/2014 17:53	GC
Surr: 4-Bromofluorobenzene	83.6	70.6-123		%REC	199803	1	11/30/2014 17:53	GC
Surr: Dibromofluoromethane	107	78.7-124		%REC	199803	1	11/30/2014 17:53	GC
Surr: Toluene-d8	109	81.3-120		%REC	199803	1	11/30/2014 17:53	GC

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: MW-36 (112014)
Project Name: Lafarge	Collection Date: 11/20/2014 3:00:00 PM
Lab ID: 1411156-007	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	199803	1	12/01/2014 18:02	GC
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	199803	1	12/01/2014 18:02	GC
1,1,2-Trichloroethane	BRL	5.0		ug/L	199803	1	12/01/2014 18:02	GC
1,1-Dichloroethane	BRL	5.0		ug/L	199803	1	12/01/2014 18:02	GC
1,1-Dichloroethene	33	5.0		ug/L	199803	1	12/01/2014 18:02	GC
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	199803	1	12/01/2014 18:02	GC
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	199803	1	12/01/2014 18:02	GC
1,2-Dibromoethane	BRL	5.0		ug/L	199803	1	12/01/2014 18:02	GC
1,2-Dichlorobenzene	BRL	5.0		ug/L	199803	1	12/01/2014 18:02	GC
1,2-Dichloroethane	BRL	5.0		ug/L	199803	1	12/01/2014 18:02	GC
1,2-Dichloropropane	BRL	5.0		ug/L	199803	1	12/01/2014 18:02	GC
1,3-Dichlorobenzene	BRL	5.0		ug/L	199803	1	12/01/2014 18:02	GC
1,4-Dichlorobenzene	BRL	5.0		ug/L	199803	1	12/01/2014 18:02	GC
2-Butanone	BRL	50		ug/L	199803	1	12/01/2014 18:02	GC
2-Hexanone	BRL	10		ug/L	199803	1	12/01/2014 18:02	GC
4-Methyl-2-pentanone	20	10		ug/L	199803	1	12/01/2014 18:02	GC
Acetone	BRL	50		ug/L	199803	1	12/01/2014 18:02	GC
Benzene	BRL	5.0		ug/L	199803	1	12/01/2014 18:02	GC
Bromodichloromethane	BRL	5.0		ug/L	199803	1	12/01/2014 18:02	GC
Bromoform	BRL	5.0		ug/L	199803	1	12/01/2014 18:02	GC
Bromomethane	BRL	5.0		ug/L	199803	1	12/01/2014 18:02	GC
Carbon disulfide	BRL	5.0		ug/L	199803	1	12/01/2014 18:02	GC
Carbon tetrachloride	BRL	5.0		ug/L	199803	1	12/01/2014 18:02	GC
Chlorobenzene	BRL	5.0		ug/L	199803	1	12/01/2014 18:02	GC
Chloroethane	BRL	10		ug/L	199803	1	12/01/2014 18:02	GC
Chloroform	BRL	5.0		ug/L	199803	1	12/01/2014 18:02	GC
Chloromethane	BRL	10		ug/L	199803	1	12/01/2014 18:02	GC
cis-1,2-Dichloroethene	9600	250		ug/L	199803	50	12/01/2014 17:33	GC
cis-1,3-Dichloropropene	BRL	5.0		ug/L	199803	1	12/01/2014 18:02	GC
Cyclohexane	BRL	5.0		ug/L	199803	1	12/01/2014 18:02	GC
Dibromochloromethane	BRL	5.0		ug/L	199803	1	12/01/2014 18:02	GC
Dichlorodifluoromethane	BRL	10		ug/L	199803	1	12/01/2014 18:02	GC
Ethylbenzene	11	5.0		ug/L	199803	1	12/01/2014 18:02	GC
Freon-113	BRL	10		ug/L	199803	1	12/01/2014 18:02	GC
Isopropylbenzene	BRL	5.0		ug/L	199803	1	12/01/2014 18:02	GC
m,p-Xylene	15	5.0		ug/L	199803	1	12/01/2014 18:02	GC
Methyl acetate	BRL	5.0		ug/L	199803	1	12/01/2014 18:02	GC
Methyl tert-butyl ether	BRL	5.0		ug/L	199803	1	12/01/2014 18:02	GC
Methylcyclohexane	BRL	5.0		ug/L	199803	1	12/01/2014 18:02	GC
Methylene chloride	BRL	5.0		ug/L	199803	1	12/01/2014 18:02	GC
o-Xylene	BRL	5.0		ug/L	199803	1	12/01/2014 18:02	GC

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: MW-36 (112014)
Project Name: Lafarge	Collection Date: 11/20/2014 3:00:00 PM
Lab ID: 1411156-007	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	199803	1	12/01/2014 18:02	GC
Tetrachloroethene	BRL	5.0		ug/L	199803	1	12/01/2014 18:02	GC
Toluene	51	5.0		ug/L	199803	1	12/01/2014 18:02	GC
trans-1,2-Dichloroethene	BRL	5.0		ug/L	199803	1	12/01/2014 18:02	GC
trans-1,3-Dichloropropene	BRL	5.0		ug/L	199803	1	12/01/2014 18:02	GC
Trichloroethene	5500	250		ug/L	199803	50	12/01/2014 17:33	GC
Trichlorofluoromethane	BRL	5.0		ug/L	199803	1	12/01/2014 18:02	GC
Vinyl chloride	10	2.0		ug/L	199803	1	12/01/2014 18:02	GC
Surr: 4-Bromofluorobenzene	87.4	70.6-123		%REC	199803	50	12/01/2014 17:33	GC
Surr: 4-Bromofluorobenzene	89.4	70.6-123		%REC	199803	1	12/01/2014 18:02	GC
Surr: Dibromofluoromethane	105	78.7-124		%REC	199803	50	12/01/2014 17:33	GC
Surr: Dibromofluoromethane	92.5	78.7-124		%REC	199803	1	12/01/2014 18:02	GC
Surr: Toluene-d8	103	81.3-120		%REC	199803	50	12/01/2014 17:33	GC
Surr: Toluene-d8	94.7	81.3-120		%REC	199803	1	12/01/2014 18:02	GC

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: MW-32 (112014)
Project Name: Lafarge	Collection Date: 11/20/2014 4:15:00 PM
Lab ID: 1411156-008	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B		(SW5030B)						
1,1,1-Trichloroethane	36	5.0		ug/L	199803	1	11/26/2014 19:26	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	199803	1	11/26/2014 19:26	NP
1,1,2-Trichloroethane	110	5.0		ug/L	199803	1	11/26/2014 19:26	NP
1,1-Dichloroethane	BRL	5.0		ug/L	199803	1	11/26/2014 19:26	NP
1,1-Dichloroethene	81	5.0		ug/L	199803	1	11/26/2014 19:26	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	199803	1	11/26/2014 19:26	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	199803	1	11/26/2014 19:26	NP
1,2-Dibromoethane	BRL	5.0		ug/L	199803	1	11/26/2014 19:26	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	199803	1	11/26/2014 19:26	NP
1,2-Dichloroethane	BRL	5.0		ug/L	199803	1	11/26/2014 19:26	NP
1,2-Dichloropropane	BRL	5.0		ug/L	199803	1	11/26/2014 19:26	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	199803	1	11/26/2014 19:26	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	199803	1	11/26/2014 19:26	NP
2-Butanone	550	400		ug/L	199803	20	11/26/2014 23:28	AR
2-Hexanone	BRL	10		ug/L	199803	1	11/26/2014 19:26	NP
4-Methyl-2-pentanone	470	200		ug/L	199803	20	11/26/2014 23:28	AR
Acetone	1100	1000		ug/L	199803	20	11/26/2014 23:28	AR
Benzene	49	5.0		ug/L	199803	1	11/26/2014 19:26	NP
Bromodichloromethane	BRL	5.0		ug/L	199803	1	11/26/2014 19:26	NP
Bromoform	BRL	5.0		ug/L	199803	1	11/26/2014 19:26	NP
Bromomethane	BRL	5.0		ug/L	199803	1	11/26/2014 19:26	NP
Carbon disulfide	BRL	5.0		ug/L	199803	1	11/26/2014 19:26	NP
Carbon tetrachloride	BRL	5.0		ug/L	199803	1	11/26/2014 19:26	NP
Chlorobenzene	BRL	5.0		ug/L	199803	1	11/26/2014 19:26	NP
Chloroethane	BRL	10		ug/L	199803	1	11/26/2014 19:26	NP
Chloroform	6.6	5.0		ug/L	199803	1	11/26/2014 19:26	NP
Chloromethane	BRL	10		ug/L	199803	1	11/26/2014 19:26	NP
cis-1,2-Dichloroethene	14	5.0		ug/L	199803	1	11/26/2014 19:26	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	199803	1	11/26/2014 19:26	NP
Cyclohexane	BRL	5.0		ug/L	199803	1	11/26/2014 19:26	NP
Dibromochloromethane	BRL	5.0		ug/L	199803	1	11/26/2014 19:26	NP
Dichlorodifluoromethane	BRL	10		ug/L	199803	1	11/26/2014 19:26	NP
Ethylbenzene	580	100		ug/L	199803	20	11/26/2014 23:28	AR
Freon-113	BRL	10		ug/L	199803	1	11/26/2014 19:26	NP
Isopropylbenzene	6.6	5.0		ug/L	199803	1	11/26/2014 19:26	NP
m,p-Xylene	2100	100		ug/L	199803	20	11/26/2014 23:28	AR
Methyl acetate	BRL	5.0		ug/L	199803	1	11/26/2014 19:26	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	199803	1	11/26/2014 19:26	NP
Methylcyclohexane	BRL	5.0		ug/L	199803	1	11/26/2014 19:26	NP
Methylene chloride	130	5.0		ug/L	199803	1	11/26/2014 19:26	NP
o-Xylene	570	100		ug/L	199803	20	11/26/2014 23:28	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: MW-32 (112014)
Project Name: Lafarge	Collection Date: 11/20/2014 4:15:00 PM
Lab ID: 1411156-008	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
Styrene	BRL	5.0		ug/L	199803	1	11/26/2014 19:26	NP
Tetrachloroethene	26	5.0		ug/L	199803	1	11/26/2014 19:26	NP
Toluene	12000	5000		ug/L	199803	5000	11/30/2014 20:42	GC
trans-1,2-Dichloroethene	BRL	5.0		ug/L	199803	1	11/26/2014 19:26	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	199803	1	11/26/2014 19:26	NP
Trichloroethene	540000	25000		ug/L	199803	5000	11/30/2014 20:42	GC
Trichlorofluoromethane	BRL	5.0		ug/L	199803	1	11/26/2014 19:26	NP
Vinyl chloride	BRL	2.0		ug/L	199803	1	11/26/2014 19:26	NP
Surr: 4-Bromofluorobenzene	79.9	70.6-123		%REC	199803	5000	11/30/2014 20:42	GC
Surr: 4-Bromofluorobenzene	113	70.6-123		%REC	199803	1	11/26/2014 19:26	NP
Surr: 4-Bromofluorobenzene	82.4	70.6-123		%REC	199803	20	11/26/2014 23:28	AR
Surr: Dibromofluoromethane	207	78.7-124	S	%REC	199803	1	11/26/2014 19:26	NP
Surr: Dibromofluoromethane	101	78.7-124		%REC	199803	5000	11/30/2014 20:42	GC
Surr: Dibromofluoromethane	87.2	78.7-124		%REC	199803	20	11/26/2014 23:28	AR
Surr: Toluene-d8	101	81.3-120		%REC	199803	5000	11/30/2014 20:42	GC
Surr: Toluene-d8	189	81.3-120	S	%REC	199803	1	11/26/2014 19:26	NP
Surr: Toluene-d8	96.6	81.3-120		%REC	199803	20	11/26/2014 23:28	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: MW-12 (111914)
Project Name: Lafarge	Collection Date: 11/19/2014 3:55:00 PM
Lab ID: 1411156-009	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	199803	1	11/28/2014 21:21	AR
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	199803	1	11/28/2014 21:21	AR
1,1,2-Trichloroethane	BRL	5.0		ug/L	199803	1	11/28/2014 21:21	AR
1,1-Dichloroethane	BRL	5.0		ug/L	199803	1	11/28/2014 21:21	AR
1,1-Dichloroethene	BRL	5.0		ug/L	199803	1	11/28/2014 21:21	AR
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	199803	1	11/28/2014 21:21	AR
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	199803	1	11/28/2014 21:21	AR
1,2-Dibromoethane	BRL	5.0		ug/L	199803	1	11/28/2014 21:21	AR
1,2-Dichlorobenzene	BRL	5.0		ug/L	199803	1	11/28/2014 21:21	AR
1,2-Dichloroethane	BRL	5.0		ug/L	199803	1	11/28/2014 21:21	AR
1,2-Dichloropropane	BRL	5.0		ug/L	199803	1	11/28/2014 21:21	AR
1,3-Dichlorobenzene	BRL	5.0		ug/L	199803	1	11/28/2014 21:21	AR
1,4-Dichlorobenzene	BRL	5.0		ug/L	199803	1	11/28/2014 21:21	AR
2-Butanone	BRL	50		ug/L	199803	1	11/28/2014 21:21	AR
2-Hexanone	BRL	10		ug/L	199803	1	11/28/2014 21:21	AR
4-Methyl-2-pentanone	BRL	10		ug/L	199803	1	11/28/2014 21:21	AR
Acetone	BRL	50		ug/L	199803	1	11/28/2014 21:21	AR
Benzene	BRL	5.0		ug/L	199803	1	11/28/2014 21:21	AR
Bromodichloromethane	BRL	5.0		ug/L	199803	1	11/28/2014 21:21	AR
Bromoform	BRL	5.0		ug/L	199803	1	11/28/2014 21:21	AR
Bromomethane	BRL	5.0		ug/L	199803	1	11/28/2014 21:21	AR
Carbon disulfide	BRL	5.0		ug/L	199803	1	11/28/2014 21:21	AR
Carbon tetrachloride	BRL	5.0		ug/L	199803	1	11/28/2014 21:21	AR
Chlorobenzene	BRL	5.0		ug/L	199803	1	11/28/2014 21:21	AR
Chloroethane	BRL	10		ug/L	199803	1	11/28/2014 21:21	AR
Chloroform	BRL	5.0		ug/L	199803	1	11/28/2014 21:21	AR
Chloromethane	BRL	10		ug/L	199803	1	11/28/2014 21:21	AR
cis-1,2-Dichloroethene	33	5.0		ug/L	199803	1	11/28/2014 21:21	AR
cis-1,3-Dichloropropene	BRL	5.0		ug/L	199803	1	11/28/2014 21:21	AR
Cyclohexane	BRL	5.0		ug/L	199803	1	11/28/2014 21:21	AR
Dibromochloromethane	BRL	5.0		ug/L	199803	1	11/28/2014 21:21	AR
Dichlorodifluoromethane	BRL	10		ug/L	199803	1	11/28/2014 21:21	AR
Ethylbenzene	BRL	5.0		ug/L	199803	1	11/28/2014 21:21	AR
Freon-113	BRL	10		ug/L	199803	1	11/28/2014 21:21	AR
Isopropylbenzene	BRL	5.0		ug/L	199803	1	11/28/2014 21:21	AR
m,p-Xylene	BRL	5.0		ug/L	199803	1	11/28/2014 21:21	AR
Methyl acetate	BRL	5.0		ug/L	199803	1	11/28/2014 21:21	AR
Methyl tert-butyl ether	BRL	5.0		ug/L	199803	1	11/28/2014 21:21	AR
Methylcyclohexane	BRL	5.0		ug/L	199803	1	11/28/2014 21:21	AR
Methylene chloride	BRL	5.0		ug/L	199803	1	11/28/2014 21:21	AR
o-Xylene	BRL	5.0		ug/L	199803	1	11/28/2014 21:21	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: MW-12 (111914)
Project Name: Lafarge	Collection Date: 11/19/2014 3:55:00 PM
Lab ID: 1411156-009	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	199803	1	11/28/2014 21:21	AR
Tetrachloroethene	BRL	5.0		ug/L	199803	1	11/28/2014 21:21	AR
Toluene	BRL	5.0		ug/L	199803	1	11/28/2014 21:21	AR
trans-1,2-Dichloroethene	BRL	5.0		ug/L	199803	1	11/28/2014 21:21	AR
trans-1,3-Dichloropropene	BRL	5.0		ug/L	199803	1	11/28/2014 21:21	AR
Trichloroethene	7.9	5.0		ug/L	199803	1	11/28/2014 21:21	AR
Trichlorofluoromethane	BRL	5.0		ug/L	199803	1	11/28/2014 21:21	AR
Vinyl chloride	BRL	2.0		ug/L	199803	1	11/28/2014 21:21	AR
Surr: 4-Bromofluorobenzene	78.2	70.6-123		%REC	199803	1	11/28/2014 21:21	AR
Surr: Dibromofluoromethane	98.5	78.7-124		%REC	199803	1	11/28/2014 21:21	AR
Surr: Toluene-d8	105	81.3-120		%REC	199803	1	11/28/2014 21:21	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: MW-22 (111914)
Project Name: Lafarge	Collection Date: 11/19/2014 3:20:00 PM
Lab ID: 1411156-010	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	199803	1	11/30/2014 18:21	GC
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	199803	1	11/30/2014 18:21	GC
1,1,2-Trichloroethane	BRL	5.0		ug/L	199803	1	11/30/2014 18:21	GC
1,1-Dichloroethane	BRL	5.0		ug/L	199803	1	11/30/2014 18:21	GC
1,1-Dichloroethene	BRL	5.0		ug/L	199803	1	11/30/2014 18:21	GC
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	199803	1	11/30/2014 18:21	GC
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	199803	1	11/30/2014 18:21	GC
1,2-Dibromoethane	BRL	5.0		ug/L	199803	1	11/30/2014 18:21	GC
1,2-Dichlorobenzene	BRL	5.0		ug/L	199803	1	11/30/2014 18:21	GC
1,2-Dichloroethane	BRL	5.0		ug/L	199803	1	11/30/2014 18:21	GC
1,2-Dichloropropane	BRL	5.0		ug/L	199803	1	11/30/2014 18:21	GC
1,3-Dichlorobenzene	BRL	5.0		ug/L	199803	1	11/30/2014 18:21	GC
1,4-Dichlorobenzene	BRL	5.0		ug/L	199803	1	11/30/2014 18:21	GC
2-Butanone	BRL	50		ug/L	199803	1	11/30/2014 18:21	GC
2-Hexanone	BRL	10		ug/L	199803	1	11/30/2014 18:21	GC
4-Methyl-2-pentanone	BRL	10		ug/L	199803	1	11/30/2014 18:21	GC
Acetone	BRL	50		ug/L	199803	1	11/30/2014 18:21	GC
Benzene	BRL	5.0		ug/L	199803	1	11/30/2014 18:21	GC
Bromodichloromethane	BRL	5.0		ug/L	199803	1	11/30/2014 18:21	GC
Bromoform	BRL	5.0		ug/L	199803	1	11/30/2014 18:21	GC
Bromomethane	BRL	5.0		ug/L	199803	1	11/30/2014 18:21	GC
Carbon disulfide	BRL	5.0		ug/L	199803	1	11/30/2014 18:21	GC
Carbon tetrachloride	BRL	5.0		ug/L	199803	1	11/30/2014 18:21	GC
Chlorobenzene	BRL	5.0		ug/L	199803	1	11/30/2014 18:21	GC
Chloroethane	BRL	10		ug/L	199803	1	11/30/2014 18:21	GC
Chloroform	BRL	5.0		ug/L	199803	1	11/30/2014 18:21	GC
Chloromethane	BRL	10		ug/L	199803	1	11/30/2014 18:21	GC
cis-1,2-Dichloroethene	15	5.0		ug/L	199803	1	11/30/2014 18:21	GC
cis-1,3-Dichloropropene	BRL	5.0		ug/L	199803	1	11/30/2014 18:21	GC
Cyclohexane	BRL	5.0		ug/L	199803	1	11/30/2014 18:21	GC
Dibromochloromethane	BRL	5.0		ug/L	199803	1	11/30/2014 18:21	GC
Dichlorodifluoromethane	BRL	10		ug/L	199803	1	11/30/2014 18:21	GC
Ethylbenzene	BRL	5.0		ug/L	199803	1	11/30/2014 18:21	GC
Freon-113	BRL	10		ug/L	199803	1	11/30/2014 18:21	GC
Isopropylbenzene	BRL	5.0		ug/L	199803	1	11/30/2014 18:21	GC
m,p-Xylene	BRL	5.0		ug/L	199803	1	11/30/2014 18:21	GC
Methyl acetate	BRL	5.0		ug/L	199803	1	11/30/2014 18:21	GC
Methyl tert-butyl ether	BRL	5.0		ug/L	199803	1	11/30/2014 18:21	GC
Methylcyclohexane	BRL	5.0		ug/L	199803	1	11/30/2014 18:21	GC
Methylene chloride	BRL	5.0		ug/L	199803	1	11/30/2014 18:21	GC
o-Xylene	BRL	5.0		ug/L	199803	1	11/30/2014 18:21	GC

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: MW-22 (111914)
Project Name: Lafarge	Collection Date: 11/19/2014 3:20:00 PM
Lab ID: 1411156-010	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5030B)			
Styrene	BRL	5.0		ug/L	199803	1	11/30/2014 18:21	GC
Tetrachloroethene	BRL	5.0		ug/L	199803	1	11/30/2014 18:21	GC
Toluene	BRL	5.0		ug/L	199803	1	11/30/2014 18:21	GC
trans-1,2-Dichloroethene	BRL	5.0		ug/L	199803	1	11/30/2014 18:21	GC
trans-1,3-Dichloropropene	BRL	5.0		ug/L	199803	1	11/30/2014 18:21	GC
Trichloroethene	BRL	5.0		ug/L	199803	1	11/30/2014 18:21	GC
Trichlorofluoromethane	BRL	5.0		ug/L	199803	1	11/30/2014 18:21	GC
Vinyl chloride	BRL	2.0		ug/L	199803	1	11/30/2014 18:21	GC
Surr: 4-Bromofluorobenzene	83.8	70.6-123		%REC	199803	1	11/30/2014 18:21	GC
Surr: Dibromofluoromethane	102	78.7-124		%REC	199803	1	11/30/2014 18:21	GC
Surr: Toluene-d8	107	81.3-120		%REC	199803	1	11/30/2014 18:21	GC

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: MW-23 (111814)
Project Name: Lafarge	Collection Date: 11/18/2014 11:20:00 AM
Lab ID: 1411156-011	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	199803	1	11/29/2014 02:02	AR
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	199803	1	11/29/2014 02:02	AR
1,1,2-Trichloroethane	BRL	5.0		ug/L	199803	1	11/29/2014 02:02	AR
1,1-Dichloroethane	BRL	5.0		ug/L	199803	1	11/29/2014 02:02	AR
1,1-Dichloroethene	BRL	5.0		ug/L	199803	1	11/29/2014 02:02	AR
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	199803	1	11/29/2014 02:02	AR
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	199803	1	11/29/2014 02:02	AR
1,2-Dibromoethane	BRL	5.0		ug/L	199803	1	11/29/2014 02:02	AR
1,2-Dichlorobenzene	BRL	5.0		ug/L	199803	1	11/29/2014 02:02	AR
1,2-Dichloroethane	BRL	5.0		ug/L	199803	1	11/29/2014 02:02	AR
1,2-Dichloropropane	BRL	5.0		ug/L	199803	1	11/29/2014 02:02	AR
1,3-Dichlorobenzene	BRL	5.0		ug/L	199803	1	11/29/2014 02:02	AR
1,4-Dichlorobenzene	BRL	5.0		ug/L	199803	1	11/29/2014 02:02	AR
2-Butanone	BRL	50		ug/L	199803	1	11/29/2014 02:02	AR
2-Hexanone	BRL	10		ug/L	199803	1	11/29/2014 02:02	AR
4-Methyl-2-pentanone	BRL	10		ug/L	199803	1	11/29/2014 02:02	AR
Acetone	BRL	50		ug/L	199803	1	11/29/2014 02:02	AR
Benzene	BRL	5.0		ug/L	199803	1	11/29/2014 02:02	AR
Bromodichloromethane	BRL	5.0		ug/L	199803	1	11/29/2014 02:02	AR
Bromoform	BRL	5.0		ug/L	199803	1	11/29/2014 02:02	AR
Bromomethane	BRL	5.0		ug/L	199803	1	11/29/2014 02:02	AR
Carbon disulfide	BRL	5.0		ug/L	199803	1	11/29/2014 02:02	AR
Carbon tetrachloride	BRL	5.0		ug/L	199803	1	11/29/2014 02:02	AR
Chlorobenzene	BRL	5.0		ug/L	199803	1	11/29/2014 02:02	AR
Chloroethane	BRL	10		ug/L	199803	1	11/29/2014 02:02	AR
Chloroform	BRL	5.0		ug/L	199803	1	11/29/2014 02:02	AR
Chloromethane	BRL	10		ug/L	199803	1	11/29/2014 02:02	AR
cis-1,2-Dichloroethene	BRL	5.0		ug/L	199803	1	11/29/2014 02:02	AR
cis-1,3-Dichloropropene	BRL	5.0		ug/L	199803	1	11/29/2014 02:02	AR
Cyclohexane	BRL	5.0		ug/L	199803	1	11/29/2014 02:02	AR
Dibromochloromethane	BRL	5.0		ug/L	199803	1	11/29/2014 02:02	AR
Dichlorodifluoromethane	BRL	10		ug/L	199803	1	11/29/2014 02:02	AR
Ethylbenzene	BRL	5.0		ug/L	199803	1	11/29/2014 02:02	AR
Freon-113	BRL	10		ug/L	199803	1	11/29/2014 02:02	AR
Isopropylbenzene	BRL	5.0		ug/L	199803	1	11/29/2014 02:02	AR
m,p-Xylene	BRL	5.0		ug/L	199803	1	11/29/2014 02:02	AR
Methyl acetate	BRL	5.0		ug/L	199803	1	11/29/2014 02:02	AR
Methyl tert-butyl ether	BRL	5.0		ug/L	199803	1	11/29/2014 02:02	AR
Methylcyclohexane	BRL	5.0		ug/L	199803	1	11/29/2014 02:02	AR
Methylene chloride	BRL	5.0		ug/L	199803	1	11/29/2014 02:02	AR
o-Xylene	BRL	5.0		ug/L	199803	1	11/29/2014 02:02	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: MW-23 (111814)
Project Name: Lafarge	Collection Date: 11/18/2014 11:20:00 AM
Lab ID: 1411156-011	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5030B)			
Styrene	BRL	5.0		ug/L	199803	1	11/29/2014 02:02	AR
Tetrachloroethene	BRL	5.0		ug/L	199803	1	11/29/2014 02:02	AR
Toluene	BRL	5.0		ug/L	199803	1	11/29/2014 02:02	AR
trans-1,2-Dichloroethene	BRL	5.0		ug/L	199803	1	11/29/2014 02:02	AR
trans-1,3-Dichloropropene	BRL	5.0		ug/L	199803	1	11/29/2014 02:02	AR
Trichloroethene	6.4	5.0		ug/L	199803	1	11/29/2014 02:02	AR
Trichlorofluoromethane	12	5.0		ug/L	199803	1	11/29/2014 02:02	AR
Vinyl chloride	BRL	2.0		ug/L	199803	1	11/29/2014 02:02	AR
Surr: 4-Bromofluorobenzene	78.1	70.6-123		%REC	199803	1	11/29/2014 02:02	AR
Surr: Dibromofluoromethane	99.5	78.7-124		%REC	199803	1	11/29/2014 02:02	AR
Surr: Toluene-d8	107	81.3-120		%REC	199803	1	11/29/2014 02:02	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: MW-24 (111914)
Project Name: Lafarge	Collection Date: 11/19/2014 10:10:00 AM
Lab ID: 1411156-012	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	199803	1	11/28/2014 16:38	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	199803	1	11/28/2014 16:38	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	199803	1	11/28/2014 16:38	NP
1,1-Dichloroethane	BRL	5.0		ug/L	199803	1	11/28/2014 16:38	NP
1,1-Dichloroethene	BRL	5.0		ug/L	199803	1	11/28/2014 16:38	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	199803	1	11/28/2014 16:38	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	199803	1	11/28/2014 16:38	NP
1,2-Dibromoethane	BRL	5.0		ug/L	199803	1	11/28/2014 16:38	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	199803	1	11/28/2014 16:38	NP
1,2-Dichloroethane	BRL	5.0		ug/L	199803	1	11/28/2014 16:38	NP
1,2-Dichloropropane	BRL	5.0		ug/L	199803	1	11/28/2014 16:38	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	199803	1	11/28/2014 16:38	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	199803	1	11/28/2014 16:38	NP
2-Butanone	BRL	50		ug/L	199803	1	11/28/2014 16:38	NP
2-Hexanone	BRL	10		ug/L	199803	1	11/28/2014 16:38	NP
4-Methyl-2-pentanone	BRL	10		ug/L	199803	1	11/28/2014 16:38	NP
Acetone	BRL	50		ug/L	199803	1	11/28/2014 16:38	NP
Benzene	BRL	5.0		ug/L	199803	1	11/28/2014 16:38	NP
Bromodichloromethane	BRL	5.0		ug/L	199803	1	11/28/2014 16:38	NP
Bromoform	BRL	5.0		ug/L	199803	1	11/28/2014 16:38	NP
Bromomethane	BRL	5.0		ug/L	199803	1	11/28/2014 16:38	NP
Carbon disulfide	BRL	5.0		ug/L	199803	1	11/28/2014 16:38	NP
Carbon tetrachloride	BRL	5.0		ug/L	199803	1	11/28/2014 16:38	NP
Chlorobenzene	BRL	5.0		ug/L	199803	1	11/28/2014 16:38	NP
Chloroethane	BRL	10		ug/L	199803	1	11/28/2014 16:38	NP
Chloroform	BRL	5.0		ug/L	199803	1	11/28/2014 16:38	NP
Chloromethane	BRL	10		ug/L	199803	1	11/28/2014 16:38	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	199803	1	11/28/2014 16:38	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	199803	1	11/28/2014 16:38	NP
Cyclohexane	BRL	5.0		ug/L	199803	1	11/28/2014 16:38	NP
Dibromochloromethane	BRL	5.0		ug/L	199803	1	11/28/2014 16:38	NP
Dichlorodifluoromethane	BRL	10		ug/L	199803	1	11/28/2014 16:38	NP
Ethylbenzene	BRL	5.0		ug/L	199803	1	11/28/2014 16:38	NP
Freon-113	BRL	10		ug/L	199803	1	11/28/2014 16:38	NP
Isopropylbenzene	BRL	5.0		ug/L	199803	1	11/28/2014 16:38	NP
m,p-Xylene	BRL	5.0		ug/L	199803	1	11/28/2014 16:38	NP
Methyl acetate	BRL	5.0		ug/L	199803	1	11/28/2014 16:38	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	199803	1	11/28/2014 16:38	NP
Methylcyclohexane	BRL	5.0		ug/L	199803	1	11/28/2014 16:38	NP
Methylene chloride	BRL	5.0		ug/L	199803	1	11/28/2014 16:38	NP
o-Xylene	BRL	5.0		ug/L	199803	1	11/28/2014 16:38	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: MW-24 (111914)
Project Name: Lafarge	Collection Date: 11/19/2014 10:10:00 AM
Lab ID: 1411156-012	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	199803	1	11/28/2014 16:38	NP
Tetrachloroethene	BRL	5.0		ug/L	199803	1	11/28/2014 16:38	NP
Toluene	BRL	5.0		ug/L	199803	1	11/28/2014 16:38	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	199803	1	11/28/2014 16:38	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	199803	1	11/28/2014 16:38	NP
Trichloroethene	BRL	5.0		ug/L	199803	1	11/28/2014 16:38	NP
Trichlorofluoromethane	BRL	5.0		ug/L	199803	1	11/28/2014 16:38	NP
Vinyl chloride	BRL	2.0		ug/L	199803	1	11/28/2014 16:38	NP
Surr: 4-Bromofluorobenzene	84.2	70.6-123		%REC	199803	1	11/28/2014 16:38	NP
Surr: Dibromofluoromethane	106	78.7-124		%REC	199803	1	11/28/2014 16:38	NP
Surr: Toluene-d8	95.3	81.3-120		%REC	199803	1	11/28/2014 16:38	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: MW-15 (111914)
Project Name: Lafarge	Collection Date: 11/19/2014 11:05:00 AM
Lab ID: 1411156-013	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	199803	1	11/28/2014 17:03	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	199803	1	11/28/2014 17:03	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	199803	1	11/28/2014 17:03	NP
1,1-Dichloroethane	BRL	5.0		ug/L	199803	1	11/28/2014 17:03	NP
1,1-Dichloroethene	BRL	5.0		ug/L	199803	1	11/28/2014 17:03	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	199803	1	11/28/2014 17:03	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	199803	1	11/28/2014 17:03	NP
1,2-Dibromoethane	BRL	5.0		ug/L	199803	1	11/28/2014 17:03	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	199803	1	11/28/2014 17:03	NP
1,2-Dichloroethane	BRL	5.0		ug/L	199803	1	11/28/2014 17:03	NP
1,2-Dichloropropane	BRL	5.0		ug/L	199803	1	11/28/2014 17:03	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	199803	1	11/28/2014 17:03	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	199803	1	11/28/2014 17:03	NP
2-Butanone	BRL	50		ug/L	199803	1	11/28/2014 17:03	NP
2-Hexanone	BRL	10		ug/L	199803	1	11/28/2014 17:03	NP
4-Methyl-2-pentanone	BRL	10		ug/L	199803	1	11/28/2014 17:03	NP
Acetone	BRL	50		ug/L	199803	1	11/28/2014 17:03	NP
Benzene	BRL	5.0		ug/L	199803	1	11/28/2014 17:03	NP
Bromodichloromethane	BRL	5.0		ug/L	199803	1	11/28/2014 17:03	NP
Bromoform	BRL	5.0		ug/L	199803	1	11/28/2014 17:03	NP
Bromomethane	BRL	5.0		ug/L	199803	1	11/28/2014 17:03	NP
Carbon disulfide	BRL	5.0		ug/L	199803	1	11/28/2014 17:03	NP
Carbon tetrachloride	BRL	5.0		ug/L	199803	1	11/28/2014 17:03	NP
Chlorobenzene	BRL	5.0		ug/L	199803	1	11/28/2014 17:03	NP
Chloroethane	BRL	10		ug/L	199803	1	11/28/2014 17:03	NP
Chloroform	BRL	5.0		ug/L	199803	1	11/28/2014 17:03	NP
Chloromethane	BRL	10		ug/L	199803	1	11/28/2014 17:03	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	199803	1	11/28/2014 17:03	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	199803	1	11/28/2014 17:03	NP
Cyclohexane	BRL	5.0		ug/L	199803	1	11/28/2014 17:03	NP
Dibromochloromethane	BRL	5.0		ug/L	199803	1	11/28/2014 17:03	NP
Dichlorodifluoromethane	BRL	10		ug/L	199803	1	11/28/2014 17:03	NP
Ethylbenzene	BRL	5.0		ug/L	199803	1	11/28/2014 17:03	NP
Freon-113	BRL	10		ug/L	199803	1	11/28/2014 17:03	NP
Isopropylbenzene	BRL	5.0		ug/L	199803	1	11/28/2014 17:03	NP
m,p-Xylene	BRL	5.0		ug/L	199803	1	11/28/2014 17:03	NP
Methyl acetate	BRL	5.0		ug/L	199803	1	11/28/2014 17:03	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	199803	1	11/28/2014 17:03	NP
Methylcyclohexane	BRL	5.0		ug/L	199803	1	11/28/2014 17:03	NP
Methylene chloride	BRL	5.0		ug/L	199803	1	11/28/2014 17:03	NP
o-Xylene	BRL	5.0		ug/L	199803	1	11/28/2014 17:03	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: MW-15 (111914)
Project Name: Lafarge	Collection Date: 11/19/2014 11:05:00 AM
Lab ID: 1411156-013	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5030B)			
Styrene	BRL	5.0		ug/L	199803	1	11/28/2014 17:03	NP
Tetrachloroethene	BRL	5.0		ug/L	199803	1	11/28/2014 17:03	NP
Toluene	BRL	5.0		ug/L	199803	1	11/28/2014 17:03	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	199803	1	11/28/2014 17:03	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	199803	1	11/28/2014 17:03	NP
Trichloroethene	BRL	5.0		ug/L	199803	1	11/28/2014 17:03	NP
Trichlorofluoromethane	BRL	5.0		ug/L	199803	1	11/28/2014 17:03	NP
Vinyl chloride	BRL	2.0		ug/L	199803	1	11/28/2014 17:03	NP
Surr: 4-Bromofluorobenzene	84	70.6-123		%REC	199803	1	11/28/2014 17:03	NP
Surr: Dibromofluoromethane	106	78.7-124		%REC	199803	1	11/28/2014 17:03	NP
Surr: Toluene-d8	93.3	81.3-120		%REC	199803	1	11/28/2014 17:03	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: MW-16 (111914)
Project Name: Lafarge	Collection Date: 11/19/2014 12:05:00 PM
Lab ID: 1411156-014	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	199803	1	11/28/2014 17:27	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	199803	1	11/28/2014 17:27	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	199803	1	11/28/2014 17:27	NP
1,1-Dichloroethane	BRL	5.0		ug/L	199803	1	11/28/2014 17:27	NP
1,1-Dichloroethene	BRL	5.0		ug/L	199803	1	11/28/2014 17:27	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	199803	1	11/28/2014 17:27	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	199803	1	11/28/2014 17:27	NP
1,2-Dibromoethane	BRL	5.0		ug/L	199803	1	11/28/2014 17:27	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	199803	1	11/28/2014 17:27	NP
1,2-Dichloroethane	BRL	5.0		ug/L	199803	1	11/28/2014 17:27	NP
1,2-Dichloropropane	BRL	5.0		ug/L	199803	1	11/28/2014 17:27	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	199803	1	11/28/2014 17:27	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	199803	1	11/28/2014 17:27	NP
2-Butanone	BRL	50		ug/L	199803	1	11/28/2014 17:27	NP
2-Hexanone	BRL	10		ug/L	199803	1	11/28/2014 17:27	NP
4-Methyl-2-pentanone	BRL	10		ug/L	199803	1	11/28/2014 17:27	NP
Acetone	BRL	50		ug/L	199803	1	11/28/2014 17:27	NP
Benzene	BRL	5.0		ug/L	199803	1	11/28/2014 17:27	NP
Bromodichloromethane	BRL	5.0		ug/L	199803	1	11/28/2014 17:27	NP
Bromoform	BRL	5.0		ug/L	199803	1	11/28/2014 17:27	NP
Bromomethane	BRL	5.0		ug/L	199803	1	11/28/2014 17:27	NP
Carbon disulfide	BRL	5.0		ug/L	199803	1	11/28/2014 17:27	NP
Carbon tetrachloride	BRL	5.0		ug/L	199803	1	11/28/2014 17:27	NP
Chlorobenzene	BRL	5.0		ug/L	199803	1	11/28/2014 17:27	NP
Chloroethane	BRL	10		ug/L	199803	1	11/28/2014 17:27	NP
Chloroform	BRL	5.0		ug/L	199803	1	11/28/2014 17:27	NP
Chloromethane	BRL	10		ug/L	199803	1	11/28/2014 17:27	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	199803	1	11/28/2014 17:27	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	199803	1	11/28/2014 17:27	NP
Cyclohexane	BRL	5.0		ug/L	199803	1	11/28/2014 17:27	NP
Dibromochloromethane	BRL	5.0		ug/L	199803	1	11/28/2014 17:27	NP
Dichlorodifluoromethane	BRL	10		ug/L	199803	1	11/28/2014 17:27	NP
Ethylbenzene	BRL	5.0		ug/L	199803	1	11/28/2014 17:27	NP
Freon-113	BRL	10		ug/L	199803	1	11/28/2014 17:27	NP
Isopropylbenzene	BRL	5.0		ug/L	199803	1	11/28/2014 17:27	NP
m,p-Xylene	BRL	5.0		ug/L	199803	1	11/28/2014 17:27	NP
Methyl acetate	BRL	5.0		ug/L	199803	1	11/28/2014 17:27	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	199803	1	11/28/2014 17:27	NP
Methylcyclohexane	BRL	5.0		ug/L	199803	1	11/28/2014 17:27	NP
Methylene chloride	BRL	5.0		ug/L	199803	1	11/28/2014 17:27	NP
o-Xylene	BRL	5.0		ug/L	199803	1	11/28/2014 17:27	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: MW-16 (111914)
Project Name: Lafarge	Collection Date: 11/19/2014 12:05:00 PM
Lab ID: 1411156-014	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	199803	1	11/28/2014 17:27	NP
Tetrachloroethene	BRL	5.0		ug/L	199803	1	11/28/2014 17:27	NP
Toluene	BRL	5.0		ug/L	199803	1	11/28/2014 17:27	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	199803	1	11/28/2014 17:27	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	199803	1	11/28/2014 17:27	NP
Trichloroethene	BRL	5.0		ug/L	199803	1	11/28/2014 17:27	NP
Trichlorofluoromethane	BRL	5.0		ug/L	199803	1	11/28/2014 17:27	NP
Vinyl chloride	BRL	2.0		ug/L	199803	1	11/28/2014 17:27	NP
Surr: 4-Bromofluorobenzene	80.9	70.6-123		%REC	199803	1	11/28/2014 17:27	NP
Surr: Dibromofluoromethane	108	78.7-124		%REC	199803	1	11/28/2014 17:27	NP
Surr: Toluene-d8	93.4	81.3-120		%REC	199803	1	11/28/2014 17:27	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: MW-13 (111914)
Project Name: Lafarge	Collection Date: 11/19/2014 12:50:00 PM
Lab ID: 1411156-015	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	199803	1	11/28/2014 20:25	AR
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	199803	1	11/28/2014 20:25	AR
1,1,2-Trichloroethane	BRL	5.0		ug/L	199803	1	11/28/2014 20:25	AR
1,1-Dichloroethane	BRL	5.0		ug/L	199803	1	11/28/2014 20:25	AR
1,1-Dichloroethene	BRL	5.0		ug/L	199803	1	11/28/2014 20:25	AR
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	199803	1	11/28/2014 20:25	AR
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	199803	1	11/28/2014 20:25	AR
1,2-Dibromoethane	BRL	5.0		ug/L	199803	1	11/28/2014 20:25	AR
1,2-Dichlorobenzene	BRL	5.0		ug/L	199803	1	11/28/2014 20:25	AR
1,2-Dichloroethane	BRL	5.0		ug/L	199803	1	11/28/2014 20:25	AR
1,2-Dichloropropane	BRL	5.0		ug/L	199803	1	11/28/2014 20:25	AR
1,3-Dichlorobenzene	BRL	5.0		ug/L	199803	1	11/28/2014 20:25	AR
1,4-Dichlorobenzene	BRL	5.0		ug/L	199803	1	11/28/2014 20:25	AR
2-Butanone	BRL	50		ug/L	199803	1	11/28/2014 20:25	AR
2-Hexanone	BRL	10		ug/L	199803	1	11/28/2014 20:25	AR
4-Methyl-2-pentanone	BRL	10		ug/L	199803	1	11/28/2014 20:25	AR
Acetone	BRL	50		ug/L	199803	1	11/28/2014 20:25	AR
Benzene	BRL	5.0		ug/L	199803	1	11/28/2014 20:25	AR
Bromodichloromethane	BRL	5.0		ug/L	199803	1	11/28/2014 20:25	AR
Bromoform	BRL	5.0		ug/L	199803	1	11/28/2014 20:25	AR
Bromomethane	BRL	5.0		ug/L	199803	1	11/28/2014 20:25	AR
Carbon disulfide	BRL	5.0		ug/L	199803	1	11/28/2014 20:25	AR
Carbon tetrachloride	BRL	5.0		ug/L	199803	1	11/28/2014 20:25	AR
Chlorobenzene	BRL	5.0		ug/L	199803	1	11/28/2014 20:25	AR
Chloroethane	BRL	10		ug/L	199803	1	11/28/2014 20:25	AR
Chloroform	BRL	5.0		ug/L	199803	1	11/28/2014 20:25	AR
Chloromethane	BRL	10		ug/L	199803	1	11/28/2014 20:25	AR
cis-1,2-Dichloroethene	BRL	5.0		ug/L	199803	1	11/28/2014 20:25	AR
cis-1,3-Dichloropropene	BRL	5.0		ug/L	199803	1	11/28/2014 20:25	AR
Cyclohexane	BRL	5.0		ug/L	199803	1	11/28/2014 20:25	AR
Dibromochloromethane	BRL	5.0		ug/L	199803	1	11/28/2014 20:25	AR
Dichlorodifluoromethane	BRL	10		ug/L	199803	1	11/28/2014 20:25	AR
Ethylbenzene	BRL	5.0		ug/L	199803	1	11/28/2014 20:25	AR
Freon-113	BRL	10		ug/L	199803	1	11/28/2014 20:25	AR
Isopropylbenzene	BRL	5.0		ug/L	199803	1	11/28/2014 20:25	AR
m,p-Xylene	BRL	5.0		ug/L	199803	1	11/28/2014 20:25	AR
Methyl acetate	BRL	5.0		ug/L	199803	1	11/28/2014 20:25	AR
Methyl tert-butyl ether	BRL	5.0		ug/L	199803	1	11/28/2014 20:25	AR
Methylcyclohexane	BRL	5.0		ug/L	199803	1	11/28/2014 20:25	AR
Methylene chloride	BRL	5.0		ug/L	199803	1	11/28/2014 20:25	AR
o-Xylene	BRL	5.0		ug/L	199803	1	11/28/2014 20:25	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: MW-13 (111914)
Project Name: Lafarge	Collection Date: 11/19/2014 12:50:00 PM
Lab ID: 1411156-015	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	199803	1	11/28/2014 20:25	AR
Tetrachloroethene	BRL	5.0		ug/L	199803	1	11/28/2014 20:25	AR
Toluene	BRL	5.0		ug/L	199803	1	11/28/2014 20:25	AR
trans-1,2-Dichloroethene	BRL	5.0		ug/L	199803	1	11/28/2014 20:25	AR
trans-1,3-Dichloropropene	BRL	5.0		ug/L	199803	1	11/28/2014 20:25	AR
Trichloroethene	BRL	5.0		ug/L	199803	1	11/28/2014 20:25	AR
Trichlorofluoromethane	BRL	5.0		ug/L	199803	1	11/28/2014 20:25	AR
Vinyl chloride	BRL	2.0		ug/L	199803	1	11/28/2014 20:25	AR
Surr: 4-Bromofluorobenzene	78.6	70.6-123		%REC	199803	1	11/28/2014 20:25	AR
Surr: Dibromofluoromethane	99.2	78.7-124		%REC	199803	1	11/28/2014 20:25	AR
Surr: Toluene-d8	103	81.3-120		%REC	199803	1	11/28/2014 20:25	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: MW-14 (111914)
Project Name: Lafarge	Collection Date: 11/19/2014 1:45:00 PM
Lab ID: 1411156-016	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	199803	1	11/29/2014 02:30	AR
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	199803	1	11/29/2014 02:30	AR
1,1,2-Trichloroethane	BRL	5.0		ug/L	199803	1	11/29/2014 02:30	AR
1,1-Dichloroethane	BRL	5.0		ug/L	199803	1	11/29/2014 02:30	AR
1,1-Dichloroethene	BRL	5.0		ug/L	199803	1	11/29/2014 02:30	AR
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	199803	1	11/29/2014 02:30	AR
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	199803	1	11/29/2014 02:30	AR
1,2-Dibromoethane	BRL	5.0		ug/L	199803	1	11/29/2014 02:30	AR
1,2-Dichlorobenzene	BRL	5.0		ug/L	199803	1	11/29/2014 02:30	AR
1,2-Dichloroethane	BRL	5.0		ug/L	199803	1	11/29/2014 02:30	AR
1,2-Dichloropropane	BRL	5.0		ug/L	199803	1	11/29/2014 02:30	AR
1,3-Dichlorobenzene	BRL	5.0		ug/L	199803	1	11/29/2014 02:30	AR
1,4-Dichlorobenzene	BRL	5.0		ug/L	199803	1	11/29/2014 02:30	AR
2-Butanone	BRL	50		ug/L	199803	1	11/29/2014 02:30	AR
2-Hexanone	BRL	10		ug/L	199803	1	11/29/2014 02:30	AR
4-Methyl-2-pentanone	BRL	10		ug/L	199803	1	11/29/2014 02:30	AR
Acetone	BRL	50		ug/L	199803	1	11/29/2014 02:30	AR
Benzene	BRL	5.0		ug/L	199803	1	11/29/2014 02:30	AR
Bromodichloromethane	BRL	5.0		ug/L	199803	1	11/29/2014 02:30	AR
Bromoform	BRL	5.0		ug/L	199803	1	11/29/2014 02:30	AR
Bromomethane	BRL	5.0		ug/L	199803	1	11/29/2014 02:30	AR
Carbon disulfide	BRL	5.0		ug/L	199803	1	11/29/2014 02:30	AR
Carbon tetrachloride	BRL	5.0		ug/L	199803	1	11/29/2014 02:30	AR
Chlorobenzene	BRL	5.0		ug/L	199803	1	11/29/2014 02:30	AR
Chloroethane	BRL	10		ug/L	199803	1	11/29/2014 02:30	AR
Chloroform	BRL	5.0		ug/L	199803	1	11/29/2014 02:30	AR
Chloromethane	BRL	10		ug/L	199803	1	11/29/2014 02:30	AR
cis-1,2-Dichloroethene	BRL	5.0		ug/L	199803	1	11/29/2014 02:30	AR
cis-1,3-Dichloropropene	BRL	5.0		ug/L	199803	1	11/29/2014 02:30	AR
Cyclohexane	BRL	5.0		ug/L	199803	1	11/29/2014 02:30	AR
Dibromochloromethane	BRL	5.0		ug/L	199803	1	11/29/2014 02:30	AR
Dichlorodifluoromethane	BRL	10		ug/L	199803	1	11/29/2014 02:30	AR
Ethylbenzene	BRL	5.0		ug/L	199803	1	11/29/2014 02:30	AR
Freon-113	BRL	10		ug/L	199803	1	11/29/2014 02:30	AR
Isopropylbenzene	BRL	5.0		ug/L	199803	1	11/29/2014 02:30	AR
m,p-Xylene	BRL	5.0		ug/L	199803	1	11/29/2014 02:30	AR
Methyl acetate	BRL	5.0		ug/L	199803	1	11/29/2014 02:30	AR
Methyl tert-butyl ether	BRL	5.0		ug/L	199803	1	11/29/2014 02:30	AR
Methylcyclohexane	BRL	5.0		ug/L	199803	1	11/29/2014 02:30	AR
Methylene chloride	BRL	5.0		ug/L	199803	1	11/29/2014 02:30	AR
o-Xylene	BRL	5.0		ug/L	199803	1	11/29/2014 02:30	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: MW-14 (111914)
Project Name: Lafarge	Collection Date: 11/19/2014 1:45:00 PM
Lab ID: 1411156-016	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	199803	1	11/29/2014 02:30	AR
Tetrachloroethene	BRL	5.0		ug/L	199803	1	11/29/2014 02:30	AR
Toluene	BRL	5.0		ug/L	199803	1	11/29/2014 02:30	AR
trans-1,2-Dichloroethene	BRL	5.0		ug/L	199803	1	11/29/2014 02:30	AR
trans-1,3-Dichloropropene	BRL	5.0		ug/L	199803	1	11/29/2014 02:30	AR
Trichloroethene	BRL	5.0		ug/L	199803	1	11/29/2014 02:30	AR
Trichlorofluoromethane	BRL	5.0		ug/L	199803	1	11/29/2014 02:30	AR
Vinyl chloride	BRL	2.0		ug/L	199803	1	11/29/2014 02:30	AR
Surr: 4-Bromofluorobenzene	76.6	70.6-123		%REC	199803	1	11/29/2014 02:30	AR
Surr: Dibromofluoromethane	98.6	78.7-124		%REC	199803	1	11/29/2014 02:30	AR
Surr: Toluene-d8	104	81.3-120		%REC	199803	1	11/29/2014 02:30	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: MW-19 (111914)
Project Name: Lafarge	Collection Date: 11/19/2014 2:35:00 PM
Lab ID: 1411156-017	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	199803	1	11/28/2014 19:57	AR
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	199803	1	11/28/2014 19:57	AR
1,1,2-Trichloroethane	BRL	5.0		ug/L	199803	1	11/28/2014 19:57	AR
1,1-Dichloroethane	BRL	5.0		ug/L	199803	1	11/28/2014 19:57	AR
1,1-Dichloroethene	BRL	5.0		ug/L	199803	1	11/28/2014 19:57	AR
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	199803	1	11/28/2014 19:57	AR
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	199803	1	11/28/2014 19:57	AR
1,2-Dibromoethane	BRL	5.0		ug/L	199803	1	11/28/2014 19:57	AR
1,2-Dichlorobenzene	BRL	5.0		ug/L	199803	1	11/28/2014 19:57	AR
1,2-Dichloroethane	BRL	5.0		ug/L	199803	1	11/28/2014 19:57	AR
1,2-Dichloropropane	BRL	5.0		ug/L	199803	1	11/28/2014 19:57	AR
1,3-Dichlorobenzene	BRL	5.0		ug/L	199803	1	11/28/2014 19:57	AR
1,4-Dichlorobenzene	BRL	5.0		ug/L	199803	1	11/28/2014 19:57	AR
2-Butanone	BRL	50		ug/L	199803	1	11/28/2014 19:57	AR
2-Hexanone	BRL	10		ug/L	199803	1	11/28/2014 19:57	AR
4-Methyl-2-pentanone	BRL	10		ug/L	199803	1	11/28/2014 19:57	AR
Acetone	BRL	50		ug/L	199803	1	11/28/2014 19:57	AR
Benzene	BRL	5.0		ug/L	199803	1	11/28/2014 19:57	AR
Bromodichloromethane	BRL	5.0		ug/L	199803	1	11/28/2014 19:57	AR
Bromoform	BRL	5.0		ug/L	199803	1	11/28/2014 19:57	AR
Bromomethane	BRL	5.0		ug/L	199803	1	11/28/2014 19:57	AR
Carbon disulfide	BRL	5.0		ug/L	199803	1	11/28/2014 19:57	AR
Carbon tetrachloride	BRL	5.0		ug/L	199803	1	11/28/2014 19:57	AR
Chlorobenzene	BRL	5.0		ug/L	199803	1	11/28/2014 19:57	AR
Chloroethane	BRL	10		ug/L	199803	1	11/28/2014 19:57	AR
Chloroform	BRL	5.0		ug/L	199803	1	11/28/2014 19:57	AR
Chloromethane	BRL	10		ug/L	199803	1	11/28/2014 19:57	AR
cis-1,2-Dichloroethene	BRL	5.0		ug/L	199803	1	11/28/2014 19:57	AR
cis-1,3-Dichloropropene	BRL	5.0		ug/L	199803	1	11/28/2014 19:57	AR
Cyclohexane	BRL	5.0		ug/L	199803	1	11/28/2014 19:57	AR
Dibromochloromethane	BRL	5.0		ug/L	199803	1	11/28/2014 19:57	AR
Dichlorodifluoromethane	BRL	10		ug/L	199803	1	11/28/2014 19:57	AR
Ethylbenzene	BRL	5.0		ug/L	199803	1	11/28/2014 19:57	AR
Freon-113	BRL	10		ug/L	199803	1	11/28/2014 19:57	AR
Isopropylbenzene	BRL	5.0		ug/L	199803	1	11/28/2014 19:57	AR
m,p-Xylene	BRL	5.0		ug/L	199803	1	11/28/2014 19:57	AR
Methyl acetate	BRL	5.0		ug/L	199803	1	11/28/2014 19:57	AR
Methyl tert-butyl ether	BRL	5.0		ug/L	199803	1	11/28/2014 19:57	AR
Methylcyclohexane	BRL	5.0		ug/L	199803	1	11/28/2014 19:57	AR
Methylene chloride	BRL	5.0		ug/L	199803	1	11/28/2014 19:57	AR
o-Xylene	BRL	5.0		ug/L	199803	1	11/28/2014 19:57	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: MW-19 (111914)
Project Name: Lafarge	Collection Date: 11/19/2014 2:35:00 PM
Lab ID: 1411156-017	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	199803	1	11/28/2014 19:57	AR
Tetrachloroethene	BRL	5.0		ug/L	199803	1	11/28/2014 19:57	AR
Toluene	BRL	5.0		ug/L	199803	1	11/28/2014 19:57	AR
trans-1,2-Dichloroethene	BRL	5.0		ug/L	199803	1	11/28/2014 19:57	AR
trans-1,3-Dichloropropene	BRL	5.0		ug/L	199803	1	11/28/2014 19:57	AR
Trichloroethene	BRL	5.0		ug/L	199803	1	11/28/2014 19:57	AR
Trichlorofluoromethane	BRL	5.0		ug/L	199803	1	11/28/2014 19:57	AR
Vinyl chloride	BRL	2.0		ug/L	199803	1	11/28/2014 19:57	AR
Surr: 4-Bromofluorobenzene	80.5	70.6-123		%REC	199803	1	11/28/2014 19:57	AR
Surr: Dibromofluoromethane	96.9	78.7-124		%REC	199803	1	11/28/2014 19:57	AR
Surr: Toluene-d8	101	81.3-120		%REC	199803	1	11/28/2014 19:57	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: MW-6 (111814)
Project Name: Lafarge	Collection Date: 11/18/2014 10:25:00 AM
Lab ID: 1411156-018	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	199803	1	11/28/2014 17:52	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	199803	1	11/28/2014 17:52	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	199803	1	11/28/2014 17:52	NP
1,1-Dichloroethane	BRL	5.0		ug/L	199803	1	11/28/2014 17:52	NP
1,1-Dichloroethene	BRL	5.0		ug/L	199803	1	11/28/2014 17:52	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	199803	1	11/28/2014 17:52	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	199803	1	11/28/2014 17:52	NP
1,2-Dibromoethane	BRL	5.0		ug/L	199803	1	11/28/2014 17:52	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	199803	1	11/28/2014 17:52	NP
1,2-Dichloroethane	BRL	5.0		ug/L	199803	1	11/28/2014 17:52	NP
1,2-Dichloropropane	BRL	5.0		ug/L	199803	1	11/28/2014 17:52	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	199803	1	11/28/2014 17:52	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	199803	1	11/28/2014 17:52	NP
2-Butanone	BRL	50		ug/L	199803	1	11/28/2014 17:52	NP
2-Hexanone	BRL	10		ug/L	199803	1	11/28/2014 17:52	NP
4-Methyl-2-pentanone	BRL	10		ug/L	199803	1	11/28/2014 17:52	NP
Acetone	BRL	50		ug/L	199803	1	11/28/2014 17:52	NP
Benzene	BRL	5.0		ug/L	199803	1	11/28/2014 17:52	NP
Bromodichloromethane	BRL	5.0		ug/L	199803	1	11/28/2014 17:52	NP
Bromoform	BRL	5.0		ug/L	199803	1	11/28/2014 17:52	NP
Bromomethane	BRL	5.0		ug/L	199803	1	11/28/2014 17:52	NP
Carbon disulfide	BRL	5.0		ug/L	199803	1	11/28/2014 17:52	NP
Carbon tetrachloride	BRL	5.0		ug/L	199803	1	11/28/2014 17:52	NP
Chlorobenzene	BRL	5.0		ug/L	199803	1	11/28/2014 17:52	NP
Chloroethane	BRL	10		ug/L	199803	1	11/28/2014 17:52	NP
Chloroform	BRL	5.0		ug/L	199803	1	11/28/2014 17:52	NP
Chloromethane	BRL	10		ug/L	199803	1	11/28/2014 17:52	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	199803	1	11/28/2014 17:52	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	199803	1	11/28/2014 17:52	NP
Cyclohexane	BRL	5.0		ug/L	199803	1	11/28/2014 17:52	NP
Dibromochloromethane	BRL	5.0		ug/L	199803	1	11/28/2014 17:52	NP
Dichlorodifluoromethane	BRL	10		ug/L	199803	1	11/28/2014 17:52	NP
Ethylbenzene	BRL	5.0		ug/L	199803	1	11/28/2014 17:52	NP
Freon-113	BRL	10		ug/L	199803	1	11/28/2014 17:52	NP
Isopropylbenzene	BRL	5.0		ug/L	199803	1	11/28/2014 17:52	NP
m,p-Xylene	BRL	5.0		ug/L	199803	1	11/28/2014 17:52	NP
Methyl acetate	BRL	5.0		ug/L	199803	1	11/28/2014 17:52	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	199803	1	11/28/2014 17:52	NP
Methylcyclohexane	BRL	5.0		ug/L	199803	1	11/28/2014 17:52	NP
Methylene chloride	BRL	5.0		ug/L	199803	1	11/28/2014 17:52	NP
o-Xylene	BRL	5.0		ug/L	199803	1	11/28/2014 17:52	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: MW-6 (111814)
Project Name: Lafarge	Collection Date: 11/18/2014 10:25:00 AM
Lab ID: 1411156-018	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
Styrene	BRL	5.0		ug/L	199803	1	11/28/2014 17:52	NP
Tetrachloroethene	BRL	5.0		ug/L	199803	1	11/28/2014 17:52	NP
Toluene	BRL	5.0		ug/L	199803	1	11/28/2014 17:52	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	199803	1	11/28/2014 17:52	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	199803	1	11/28/2014 17:52	NP
Trichloroethene	BRL	5.0		ug/L	199803	1	11/28/2014 17:52	NP
Trichlorofluoromethane	BRL	5.0		ug/L	199803	1	11/28/2014 17:52	NP
Vinyl chloride	BRL	2.0		ug/L	199803	1	11/28/2014 17:52	NP
Surr: 4-Bromofluorobenzene	83.1	70.6-123		%REC	199803	1	11/28/2014 17:52	NP
Surr: Dibromofluoromethane	108	78.7-124		%REC	199803	1	11/28/2014 17:52	NP
Surr: Toluene-d8	94.4	81.3-120		%REC	199803	1	11/28/2014 17:52	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: RW-8 (111714)
Project Name: Lafarge	Collection Date: 11/17/2014 11:10:00 AM
Lab ID: 1411156-019	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	199803	1	12/01/2014 18:30	GC
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	199803	1	12/01/2014 18:30	GC
1,1,2-Trichloroethane	BRL	5.0		ug/L	199803	1	12/01/2014 18:30	GC
1,1-Dichloroethane	BRL	5.0		ug/L	199803	1	12/01/2014 18:30	GC
1,1-Dichloroethene	13	5.0		ug/L	199803	1	12/01/2014 18:30	GC
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	199803	1	12/01/2014 18:30	GC
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	199803	1	12/01/2014 18:30	GC
1,2-Dibromoethane	BRL	5.0		ug/L	199803	1	12/01/2014 18:30	GC
1,2-Dichlorobenzene	BRL	5.0		ug/L	199803	1	12/01/2014 18:30	GC
1,2-Dichloroethane	BRL	5.0		ug/L	199803	1	12/01/2014 18:30	GC
1,2-Dichloropropane	BRL	5.0		ug/L	199803	1	12/01/2014 18:30	GC
1,3-Dichlorobenzene	BRL	5.0		ug/L	199803	1	12/01/2014 18:30	GC
1,4-Dichlorobenzene	BRL	5.0		ug/L	199803	1	12/01/2014 18:30	GC
2-Butanone	BRL	50		ug/L	199803	1	12/01/2014 18:30	GC
2-Hexanone	BRL	10		ug/L	199803	1	12/01/2014 18:30	GC
4-Methyl-2-pentanone	40	10		ug/L	199803	1	12/01/2014 18:30	GC
Acetone	BRL	50		ug/L	199803	1	12/01/2014 18:30	GC
Benzene	470	100		ug/L	199803	20	11/26/2014 20:11	AR
Bromodichloromethane	BRL	5.0		ug/L	199803	1	12/01/2014 18:30	GC
Bromoform	BRL	5.0		ug/L	199803	1	12/01/2014 18:30	GC
Bromomethane	BRL	5.0		ug/L	199803	1	12/01/2014 18:30	GC
Carbon disulfide	BRL	5.0		ug/L	199803	1	12/01/2014 18:30	GC
Carbon tetrachloride	BRL	5.0		ug/L	199803	1	12/01/2014 18:30	GC
Chlorobenzene	BRL	5.0		ug/L	199803	1	12/01/2014 18:30	GC
Chloroethane	BRL	10		ug/L	199803	1	12/01/2014 18:30	GC
Chloroform	BRL	5.0		ug/L	199803	1	12/01/2014 18:30	GC
Chloromethane	BRL	10		ug/L	199803	1	12/01/2014 18:30	GC
cis-1,2-Dichloroethene	9800	2500		ug/L	199803	500	11/30/2014 18:50	GC
cis-1,3-Dichloropropene	BRL	5.0		ug/L	199803	1	12/01/2014 18:30	GC
Cyclohexane	74	5.0		ug/L	199803	1	12/01/2014 18:30	GC
Dibromochloromethane	BRL	5.0		ug/L	199803	1	12/01/2014 18:30	GC
Dichlorodifluoromethane	BRL	10		ug/L	199803	1	12/01/2014 18:30	GC
Ethylbenzene	530	100		ug/L	199803	20	11/26/2014 20:11	AR
Freon-113	BRL	10		ug/L	199803	1	12/01/2014 18:30	GC
Isopropylbenzene	5.6	5.0		ug/L	199803	1	12/01/2014 18:30	GC
m,p-Xylene	2200	100		ug/L	199803	20	11/26/2014 20:11	AR
Methyl acetate	BRL	5.0		ug/L	199803	1	12/01/2014 18:30	GC
Methyl tert-butyl ether	BRL	5.0		ug/L	199803	1	12/01/2014 18:30	GC
Methylcyclohexane	46	5.0		ug/L	199803	1	12/01/2014 18:30	GC
Methylene chloride	BRL	5.0		ug/L	199803	1	12/01/2014 18:30	GC
o-Xylene	650	100		ug/L	199803	20	11/26/2014 20:11	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: RW-8 (111714)
Project Name: Lafarge	Collection Date: 11/17/2014 11:10:00 AM
Lab ID: 1411156-019	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
Styrene	BRL	5.0		ug/L	199803	1	12/01/2014 18:30	GC
Tetrachloroethene	BRL	5.0		ug/L	199803	1	12/01/2014 18:30	GC
Toluene	20000	2500		ug/L	199803	500	11/30/2014 18:50	GC
trans-1,2-Dichloroethene	BRL	5.0		ug/L	199803	1	12/01/2014 18:30	GC
trans-1,3-Dichloropropene	BRL	5.0		ug/L	199803	1	12/01/2014 18:30	GC
Trichloroethene	120	5.0		ug/L	199803	1	12/01/2014 18:30	GC
Trichlorofluoromethane	BRL	5.0		ug/L	199803	1	12/01/2014 18:30	GC
Vinyl chloride	1000	40		ug/L	199803	20	11/26/2014 20:11	AR
Surr: 4-Bromofluorobenzene	84.3	70.6-123		%REC	199803	500	11/30/2014 18:50	GC
Surr: 4-Bromofluorobenzene	87.9	70.6-123		%REC	199803	1	12/01/2014 18:30	GC
Surr: 4-Bromofluorobenzene	84.2	70.6-123		%REC	199803	20	11/26/2014 20:11	AR
Surr: Dibromofluoromethane	104	78.7-124		%REC	199803	500	11/30/2014 18:50	GC
Surr: Dibromofluoromethane	86	78.7-124		%REC	199803	1	12/01/2014 18:30	GC
Surr: Dibromofluoromethane	94.5	78.7-124		%REC	199803	20	11/26/2014 20:11	AR
Surr: Toluene-d8	100	81.3-120		%REC	199803	20	11/26/2014 20:11	AR
Surr: Toluene-d8	105	81.3-120		%REC	199803	500	11/30/2014 18:50	GC
Surr: Toluene-d8	104	81.3-120		%REC	199803	1	12/01/2014 18:30	GC

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: RW-6 (111714)
Project Name: Lafarge	Collection Date: 11/17/2014 11:15:00 AM
Lab ID: 1411156-020	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	199803	1	11/29/2014 01:17	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	199803	1	11/29/2014 01:17	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	199803	1	11/29/2014 01:17	NP
1,1-Dichloroethane	BRL	5.0		ug/L	199803	1	11/29/2014 01:17	NP
1,1-Dichloroethene	BRL	5.0		ug/L	199803	1	11/29/2014 01:17	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	199803	1	11/29/2014 01:17	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	199803	1	11/29/2014 01:17	NP
1,2-Dibromoethane	BRL	5.0		ug/L	199803	1	11/29/2014 01:17	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	199803	1	11/29/2014 01:17	NP
1,2-Dichloroethane	BRL	5.0		ug/L	199803	1	11/29/2014 01:17	NP
1,2-Dichloropropane	BRL	5.0		ug/L	199803	1	11/29/2014 01:17	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	199803	1	11/29/2014 01:17	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	199803	1	11/29/2014 01:17	NP
2-Butanone	BRL	50		ug/L	199803	1	11/29/2014 01:17	NP
2-Hexanone	BRL	10		ug/L	199803	1	11/29/2014 01:17	NP
4-Methyl-2-pentanone	BRL	10		ug/L	199803	1	11/29/2014 01:17	NP
Acetone	BRL	50		ug/L	199803	1	11/29/2014 01:17	NP
Benzene	BRL	5.0		ug/L	199803	1	11/29/2014 01:17	NP
Bromodichloromethane	BRL	5.0		ug/L	199803	1	11/29/2014 01:17	NP
Bromoform	BRL	5.0		ug/L	199803	1	11/29/2014 01:17	NP
Bromomethane	BRL	5.0		ug/L	199803	1	11/29/2014 01:17	NP
Carbon disulfide	BRL	5.0		ug/L	199803	1	11/29/2014 01:17	NP
Carbon tetrachloride	BRL	5.0		ug/L	199803	1	11/29/2014 01:17	NP
Chlorobenzene	BRL	5.0		ug/L	199803	1	11/29/2014 01:17	NP
Chloroethane	BRL	10		ug/L	199803	1	11/29/2014 01:17	NP
Chloroform	BRL	5.0		ug/L	199803	1	11/29/2014 01:17	NP
Chloromethane	BRL	10		ug/L	199803	1	11/29/2014 01:17	NP
cis-1,2-Dichloroethene	370	100		ug/L	199803	20	11/26/2014 23:56	AR
cis-1,3-Dichloropropene	BRL	5.0		ug/L	199803	1	11/29/2014 01:17	NP
Cyclohexane	5.7	5.0		ug/L	199803	1	11/29/2014 01:17	NP
Dibromochloromethane	BRL	5.0		ug/L	199803	1	11/29/2014 01:17	NP
Dichlorodifluoromethane	BRL	10		ug/L	199803	1	11/29/2014 01:17	NP
Ethylbenzene	BRL	5.0		ug/L	199803	1	11/29/2014 01:17	NP
Freon-113	BRL	10		ug/L	199803	1	11/29/2014 01:17	NP
Isopropylbenzene	BRL	5.0		ug/L	199803	1	11/29/2014 01:17	NP
m,p-Xylene	BRL	5.0		ug/L	199803	1	11/29/2014 01:17	NP
Methyl acetate	BRL	5.0		ug/L	199803	1	11/29/2014 01:17	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	199803	1	11/29/2014 01:17	NP
Methylcyclohexane	BRL	5.0		ug/L	199803	1	11/29/2014 01:17	NP
Methylene chloride	BRL	5.0		ug/L	199803	1	11/29/2014 01:17	NP
o-Xylene	BRL	5.0		ug/L	199803	1	11/29/2014 01:17	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: RW-6 (111714)
Project Name: Lafarge	Collection Date: 11/17/2014 11:15:00 AM
Lab ID: 1411156-020	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
Styrene	BRL	5.0		ug/L	199803	1	11/29/2014 01:17	NP
Tetrachloroethene	BRL	5.0		ug/L	199803	1	11/29/2014 01:17	NP
Toluene	BRL	5.0		ug/L	199803	1	11/29/2014 01:17	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	199803	1	11/29/2014 01:17	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	199803	1	11/29/2014 01:17	NP
Trichloroethene	13	5.0		ug/L	199803	1	11/29/2014 01:17	NP
Trichlorofluoromethane	BRL	5.0		ug/L	199803	1	11/29/2014 01:17	NP
Vinyl chloride	19	2.0		ug/L	199803	1	11/29/2014 01:17	NP
Surr: 4-Bromofluorobenzene	85.1	70.6-123		%REC	199803	1	11/29/2014 01:17	NP
Surr: 4-Bromofluorobenzene	82.9	70.6-123		%REC	199803	20	11/26/2014 23:56	AR
Surr: Dibromofluoromethane	106	78.7-124		%REC	199803	20	11/26/2014 23:56	AR
Surr: Dibromofluoromethane	103	78.7-124		%REC	199803	1	11/29/2014 01:17	NP
Surr: Toluene-d8	109	81.3-120		%REC	199803	20	11/26/2014 23:56	AR
Surr: Toluene-d8	93.1	81.3-120		%REC	199803	1	11/29/2014 01:17	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: RW-4 (111714)
Project Name: Lafarge	Collection Date: 11/17/2014 11:25:00 AM
Lab ID: 1411156-021	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	199840	1	11/29/2014 01:41	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	199840	1	11/29/2014 01:41	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	199840	1	11/29/2014 01:41	NP
1,1-Dichloroethane	BRL	5.0		ug/L	199840	1	11/29/2014 01:41	NP
1,1-Dichloroethene	BRL	5.0		ug/L	199840	1	11/29/2014 01:41	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	199840	1	11/29/2014 01:41	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	199840	1	11/29/2014 01:41	NP
1,2-Dibromoethane	BRL	5.0		ug/L	199840	1	11/29/2014 01:41	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	199840	1	11/29/2014 01:41	NP
1,2-Dichloroethane	BRL	5.0		ug/L	199840	1	11/29/2014 01:41	NP
1,2-Dichloropropane	BRL	5.0		ug/L	199840	1	11/29/2014 01:41	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	199840	1	11/29/2014 01:41	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	199840	1	11/29/2014 01:41	NP
2-Butanone	BRL	50		ug/L	199840	1	11/29/2014 01:41	NP
2-Hexanone	BRL	10		ug/L	199840	1	11/29/2014 01:41	NP
4-Methyl-2-pentanone	BRL	10		ug/L	199840	1	11/29/2014 01:41	NP
Acetone	BRL	50		ug/L	199840	1	11/29/2014 01:41	NP
Benzene	BRL	5.0		ug/L	199840	1	11/29/2014 01:41	NP
Bromodichloromethane	BRL	5.0		ug/L	199840	1	11/29/2014 01:41	NP
Bromoform	BRL	5.0		ug/L	199840	1	11/29/2014 01:41	NP
Bromomethane	BRL	5.0		ug/L	199840	1	11/29/2014 01:41	NP
Carbon disulfide	BRL	5.0		ug/L	199840	1	11/29/2014 01:41	NP
Carbon tetrachloride	BRL	5.0		ug/L	199840	1	11/29/2014 01:41	NP
Chlorobenzene	BRL	5.0		ug/L	199840	1	11/29/2014 01:41	NP
Chloroethane	BRL	10		ug/L	199840	1	11/29/2014 01:41	NP
Chloroform	BRL	5.0		ug/L	199840	1	11/29/2014 01:41	NP
Chloromethane	BRL	10		ug/L	199840	1	11/29/2014 01:41	NP
cis-1,2-Dichloroethene	6.6	5.0		ug/L	199840	1	11/29/2014 01:41	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	199840	1	11/29/2014 01:41	NP
Cyclohexane	BRL	5.0		ug/L	199840	1	11/29/2014 01:41	NP
Dibromochloromethane	BRL	5.0		ug/L	199840	1	11/29/2014 01:41	NP
Dichlorodifluoromethane	BRL	10		ug/L	199840	1	11/29/2014 01:41	NP
Ethylbenzene	BRL	5.0		ug/L	199840	1	11/29/2014 01:41	NP
Freon-113	BRL	10		ug/L	199840	1	11/29/2014 01:41	NP
Isopropylbenzene	BRL	5.0		ug/L	199840	1	11/29/2014 01:41	NP
m,p-Xylene	BRL	5.0		ug/L	199840	1	11/29/2014 01:41	NP
Methyl acetate	BRL	5.0		ug/L	199840	1	11/29/2014 01:41	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	199840	1	11/29/2014 01:41	NP
Methylcyclohexane	BRL	5.0		ug/L	199840	1	11/29/2014 01:41	NP
Methylene chloride	BRL	5.0		ug/L	199840	1	11/29/2014 01:41	NP
o-Xylene	BRL	5.0		ug/L	199840	1	11/29/2014 01:41	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: RW-4 (111714)
Project Name: Lafarge	Collection Date: 11/17/2014 11:25:00 AM
Lab ID: 1411156-021	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	199840	1	11/29/2014 01:41	NP
Tetrachloroethene	BRL	5.0		ug/L	199840	1	11/29/2014 01:41	NP
Toluene	BRL	5.0		ug/L	199840	1	11/29/2014 01:41	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	199840	1	11/29/2014 01:41	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	199840	1	11/29/2014 01:41	NP
Trichloroethene	5.4	5.0		ug/L	199840	1	11/29/2014 01:41	NP
Trichlorofluoromethane	BRL	5.0		ug/L	199840	1	11/29/2014 01:41	NP
Vinyl chloride	BRL	2.0		ug/L	199840	1	11/29/2014 01:41	NP
Surr: 4-Bromofluorobenzene	83.7	70.6-123		%REC	199840	1	11/29/2014 01:41	NP
Surr: Dibromofluoromethane	106	78.7-124		%REC	199840	1	11/29/2014 01:41	NP
Surr: Toluene-d8	95.9	81.3-120		%REC	199840	1	11/29/2014 01:41	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: RW-3 (111714)
Project Name: Lafarge	Collection Date: 11/17/2014 11:38:00 AM
Lab ID: 1411156-022	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	199840	1	11/29/2014 02:06	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	199840	1	11/29/2014 02:06	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	199840	1	11/29/2014 02:06	NP
1,1-Dichloroethane	BRL	5.0		ug/L	199840	1	11/29/2014 02:06	NP
1,1-Dichloroethene	BRL	5.0		ug/L	199840	1	11/29/2014 02:06	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	199840	1	11/29/2014 02:06	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	199840	1	11/29/2014 02:06	NP
1,2-Dibromoethane	BRL	5.0		ug/L	199840	1	11/29/2014 02:06	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	199840	1	11/29/2014 02:06	NP
1,2-Dichloroethane	BRL	5.0		ug/L	199840	1	11/29/2014 02:06	NP
1,2-Dichloropropane	BRL	5.0		ug/L	199840	1	11/29/2014 02:06	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	199840	1	11/29/2014 02:06	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	199840	1	11/29/2014 02:06	NP
2-Butanone	BRL	50		ug/L	199840	1	11/29/2014 02:06	NP
2-Hexanone	BRL	10		ug/L	199840	1	11/29/2014 02:06	NP
4-Methyl-2-pentanone	BRL	10		ug/L	199840	1	11/29/2014 02:06	NP
Acetone	BRL	50		ug/L	199840	1	11/29/2014 02:06	NP
Benzene	BRL	5.0		ug/L	199840	1	11/29/2014 02:06	NP
Bromodichloromethane	BRL	5.0		ug/L	199840	1	11/29/2014 02:06	NP
Bromoform	BRL	5.0		ug/L	199840	1	11/29/2014 02:06	NP
Bromomethane	BRL	5.0		ug/L	199840	1	11/29/2014 02:06	NP
Carbon disulfide	BRL	5.0		ug/L	199840	1	11/29/2014 02:06	NP
Carbon tetrachloride	BRL	5.0		ug/L	199840	1	11/29/2014 02:06	NP
Chlorobenzene	BRL	5.0		ug/L	199840	1	11/29/2014 02:06	NP
Chloroethane	BRL	10		ug/L	199840	1	11/29/2014 02:06	NP
Chloroform	BRL	5.0		ug/L	199840	1	11/29/2014 02:06	NP
Chloromethane	BRL	10		ug/L	199840	1	11/29/2014 02:06	NP
cis-1,2-Dichloroethene	9.0	5.0		ug/L	199840	1	11/29/2014 02:06	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	199840	1	11/29/2014 02:06	NP
Cyclohexane	BRL	5.0		ug/L	199840	1	11/29/2014 02:06	NP
Dibromochloromethane	BRL	5.0		ug/L	199840	1	11/29/2014 02:06	NP
Dichlorodifluoromethane	BRL	10		ug/L	199840	1	11/29/2014 02:06	NP
Ethylbenzene	BRL	5.0		ug/L	199840	1	11/29/2014 02:06	NP
Freon-113	BRL	10		ug/L	199840	1	11/29/2014 02:06	NP
Isopropylbenzene	BRL	5.0		ug/L	199840	1	11/29/2014 02:06	NP
m,p-Xylene	BRL	5.0		ug/L	199840	1	11/29/2014 02:06	NP
Methyl acetate	BRL	5.0		ug/L	199840	1	11/29/2014 02:06	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	199840	1	11/29/2014 02:06	NP
Methylcyclohexane	BRL	5.0		ug/L	199840	1	11/29/2014 02:06	NP
Methylene chloride	BRL	5.0		ug/L	199840	1	11/29/2014 02:06	NP
o-Xylene	BRL	5.0		ug/L	199840	1	11/29/2014 02:06	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: RW-3 (111714)
Project Name: Lafarge	Collection Date: 11/17/2014 11:38:00 AM
Lab ID: 1411156-022	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5030B)			
Styrene	BRL	5.0		ug/L	199840	1	11/29/2014 02:06	NP
Tetrachloroethene	BRL	5.0		ug/L	199840	1	11/29/2014 02:06	NP
Toluene	BRL	5.0		ug/L	199840	1	11/29/2014 02:06	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	199840	1	11/29/2014 02:06	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	199840	1	11/29/2014 02:06	NP
Trichloroethene	BRL	5.0		ug/L	199840	1	11/29/2014 02:06	NP
Trichlorofluoromethane	BRL	5.0		ug/L	199840	1	11/29/2014 02:06	NP
Vinyl chloride	8.8	2.0		ug/L	199840	1	11/29/2014 02:06	NP
Surr: 4-Bromofluorobenzene	84.9	70.6-123		%REC	199840	1	11/29/2014 02:06	NP
Surr: Dibromofluoromethane	107	78.7-124		%REC	199840	1	11/29/2014 02:06	NP
Surr: Toluene-d8	97.5	81.3-120		%REC	199840	1	11/29/2014 02:06	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: MW-18 (111814)
Project Name: Lafarge	Collection Date: 11/18/2014 9:30:00 AM
Lab ID: 1411156-023	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	199840	1	11/28/2014 20:53	AR
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	199840	1	11/28/2014 20:53	AR
1,1,2-Trichloroethane	BRL	5.0		ug/L	199840	1	11/28/2014 20:53	AR
1,1-Dichloroethane	BRL	5.0		ug/L	199840	1	11/28/2014 20:53	AR
1,1-Dichloroethene	BRL	5.0		ug/L	199840	1	11/28/2014 20:53	AR
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	199840	1	11/28/2014 20:53	AR
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	199840	1	11/28/2014 20:53	AR
1,2-Dibromoethane	BRL	5.0		ug/L	199840	1	11/28/2014 20:53	AR
1,2-Dichlorobenzene	BRL	5.0		ug/L	199840	1	11/28/2014 20:53	AR
1,2-Dichloroethane	BRL	5.0		ug/L	199840	1	11/28/2014 20:53	AR
1,2-Dichloropropane	BRL	5.0		ug/L	199840	1	11/28/2014 20:53	AR
1,3-Dichlorobenzene	BRL	5.0		ug/L	199840	1	11/28/2014 20:53	AR
1,4-Dichlorobenzene	BRL	5.0		ug/L	199840	1	11/28/2014 20:53	AR
2-Butanone	BRL	50		ug/L	199840	1	11/28/2014 20:53	AR
2-Hexanone	BRL	10		ug/L	199840	1	11/28/2014 20:53	AR
4-Methyl-2-pentanone	BRL	10		ug/L	199840	1	11/28/2014 20:53	AR
Acetone	BRL	50		ug/L	199840	1	11/28/2014 20:53	AR
Benzene	BRL	5.0		ug/L	199840	1	11/28/2014 20:53	AR
Bromodichloromethane	BRL	5.0		ug/L	199840	1	11/28/2014 20:53	AR
Bromoform	BRL	5.0		ug/L	199840	1	11/28/2014 20:53	AR
Bromomethane	BRL	5.0		ug/L	199840	1	11/28/2014 20:53	AR
Carbon disulfide	BRL	5.0		ug/L	199840	1	11/28/2014 20:53	AR
Carbon tetrachloride	BRL	5.0		ug/L	199840	1	11/28/2014 20:53	AR
Chlorobenzene	BRL	5.0		ug/L	199840	1	11/28/2014 20:53	AR
Chloroethane	BRL	10		ug/L	199840	1	11/28/2014 20:53	AR
Chloroform	5.2	5.0		ug/L	199840	1	11/28/2014 20:53	AR
Chloromethane	BRL	10		ug/L	199840	1	11/28/2014 20:53	AR
cis-1,2-Dichloroethene	BRL	5.0		ug/L	199840	1	11/28/2014 20:53	AR
cis-1,3-Dichloropropene	BRL	5.0		ug/L	199840	1	11/28/2014 20:53	AR
Cyclohexane	BRL	5.0		ug/L	199840	1	11/28/2014 20:53	AR
Dibromochloromethane	BRL	5.0		ug/L	199840	1	11/28/2014 20:53	AR
Dichlorodifluoromethane	BRL	10		ug/L	199840	1	11/28/2014 20:53	AR
Ethylbenzene	BRL	5.0		ug/L	199840	1	11/28/2014 20:53	AR
Freon-113	BRL	10		ug/L	199840	1	11/28/2014 20:53	AR
Isopropylbenzene	BRL	5.0		ug/L	199840	1	11/28/2014 20:53	AR
m,p-Xylene	BRL	5.0		ug/L	199840	1	11/28/2014 20:53	AR
Methyl acetate	BRL	5.0		ug/L	199840	1	11/28/2014 20:53	AR
Methyl tert-butyl ether	BRL	5.0		ug/L	199840	1	11/28/2014 20:53	AR
Methylcyclohexane	BRL	5.0		ug/L	199840	1	11/28/2014 20:53	AR
Methylene chloride	BRL	5.0		ug/L	199840	1	11/28/2014 20:53	AR
o-Xylene	BRL	5.0		ug/L	199840	1	11/28/2014 20:53	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: MW-18 (111814)
Project Name: Lafarge	Collection Date: 11/18/2014 9:30:00 AM
Lab ID: 1411156-023	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	199840	1	11/28/2014 20:53	AR
Tetrachloroethene	BRL	5.0		ug/L	199840	1	11/28/2014 20:53	AR
Toluene	BRL	5.0		ug/L	199840	1	11/28/2014 20:53	AR
trans-1,2-Dichloroethene	BRL	5.0		ug/L	199840	1	11/28/2014 20:53	AR
trans-1,3-Dichloropropene	BRL	5.0		ug/L	199840	1	11/28/2014 20:53	AR
Trichloroethene	BRL	5.0		ug/L	199840	1	11/28/2014 20:53	AR
Trichlorofluoromethane	BRL	5.0		ug/L	199840	1	11/28/2014 20:53	AR
Vinyl chloride	BRL	2.0		ug/L	199840	1	11/28/2014 20:53	AR
Surr: 4-Bromofluorobenzene	82.2	70.6-123		%REC	199840	1	11/28/2014 20:53	AR
Surr: Dibromofluoromethane	101	78.7-124		%REC	199840	1	11/28/2014 20:53	AR
Surr: Toluene-d8	103	81.3-120		%REC	199840	1	11/28/2014 20:53	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: MW-9 (112114)
Project Name: Lafarge	Collection Date: 11/21/2014 9:05:00 AM
Lab ID: 1411156-024	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	199840	1	11/29/2014 02:58	AR
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	199840	1	11/29/2014 02:58	AR
1,1,2-Trichloroethane	BRL	5.0		ug/L	199840	1	11/29/2014 02:58	AR
1,1-Dichloroethane	BRL	5.0		ug/L	199840	1	11/29/2014 02:58	AR
1,1-Dichloroethene	BRL	5.0		ug/L	199840	1	11/29/2014 02:58	AR
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	199840	1	11/29/2014 02:58	AR
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	199840	1	11/29/2014 02:58	AR
1,2-Dibromoethane	BRL	5.0		ug/L	199840	1	11/29/2014 02:58	AR
1,2-Dichlorobenzene	BRL	5.0		ug/L	199840	1	11/29/2014 02:58	AR
1,2-Dichloroethane	BRL	5.0		ug/L	199840	1	11/29/2014 02:58	AR
1,2-Dichloropropane	BRL	5.0		ug/L	199840	1	11/29/2014 02:58	AR
1,3-Dichlorobenzene	BRL	5.0		ug/L	199840	1	11/29/2014 02:58	AR
1,4-Dichlorobenzene	BRL	5.0		ug/L	199840	1	11/29/2014 02:58	AR
2-Butanone	BRL	50		ug/L	199840	1	11/29/2014 02:58	AR
2-Hexanone	BRL	10		ug/L	199840	1	11/29/2014 02:58	AR
4-Methyl-2-pentanone	BRL	10		ug/L	199840	1	11/29/2014 02:58	AR
Acetone	BRL	50		ug/L	199840	1	11/29/2014 02:58	AR
Benzene	BRL	5.0		ug/L	199840	1	11/29/2014 02:58	AR
Bromodichloromethane	BRL	5.0		ug/L	199840	1	11/29/2014 02:58	AR
Bromoform	BRL	5.0		ug/L	199840	1	11/29/2014 02:58	AR
Bromomethane	BRL	5.0		ug/L	199840	1	11/29/2014 02:58	AR
Carbon disulfide	BRL	5.0		ug/L	199840	1	11/29/2014 02:58	AR
Carbon tetrachloride	BRL	5.0		ug/L	199840	1	11/29/2014 02:58	AR
Chlorobenzene	BRL	5.0		ug/L	199840	1	11/29/2014 02:58	AR
Chloroethane	BRL	10		ug/L	199840	1	11/29/2014 02:58	AR
Chloroform	BRL	5.0		ug/L	199840	1	11/29/2014 02:58	AR
Chloromethane	BRL	10		ug/L	199840	1	11/29/2014 02:58	AR
cis-1,2-Dichloroethene	17	5.0		ug/L	199840	1	11/29/2014 02:58	AR
cis-1,3-Dichloropropene	BRL	5.0		ug/L	199840	1	11/29/2014 02:58	AR
Cyclohexane	BRL	5.0		ug/L	199840	1	11/29/2014 02:58	AR
Dibromochloromethane	BRL	5.0		ug/L	199840	1	11/29/2014 02:58	AR
Dichlorodifluoromethane	BRL	10		ug/L	199840	1	11/29/2014 02:58	AR
Ethylbenzene	BRL	5.0		ug/L	199840	1	11/29/2014 02:58	AR
Freon-113	BRL	10		ug/L	199840	1	11/29/2014 02:58	AR
Isopropylbenzene	BRL	5.0		ug/L	199840	1	11/29/2014 02:58	AR
m,p-Xylene	BRL	5.0		ug/L	199840	1	11/29/2014 02:58	AR
Methyl acetate	BRL	5.0		ug/L	199840	1	11/29/2014 02:58	AR
Methyl tert-butyl ether	BRL	5.0		ug/L	199840	1	11/29/2014 02:58	AR
Methylcyclohexane	BRL	5.0		ug/L	199840	1	11/29/2014 02:58	AR
Methylene chloride	BRL	5.0		ug/L	199840	1	11/29/2014 02:58	AR
o-Xylene	BRL	5.0		ug/L	199840	1	11/29/2014 02:58	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: MW-9 (112114)
Project Name: Lafarge	Collection Date: 11/21/2014 9:05:00 AM
Lab ID: 1411156-024	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	199840	1	11/29/2014 02:58	AR
Tetrachloroethene	BRL	5.0		ug/L	199840	1	11/29/2014 02:58	AR
Toluene	BRL	5.0		ug/L	199840	1	11/29/2014 02:58	AR
trans-1,2-Dichloroethene	BRL	5.0		ug/L	199840	1	11/29/2014 02:58	AR
trans-1,3-Dichloropropene	BRL	5.0		ug/L	199840	1	11/29/2014 02:58	AR
Trichloroethene	19	5.0		ug/L	199840	1	11/29/2014 02:58	AR
Trichlorofluoromethane	BRL	5.0		ug/L	199840	1	11/29/2014 02:58	AR
Vinyl chloride	6.7	2.0		ug/L	199840	1	11/29/2014 02:58	AR
Surr: 4-Bromofluorobenzene	79.9	70.6-123		%REC	199840	1	11/29/2014 02:58	AR
Surr: Dibromofluoromethane	99.8	78.7-124		%REC	199840	1	11/29/2014 02:58	AR
Surr: Toluene-d8	103	81.3-120		%REC	199840	1	11/29/2014 02:58	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: MW-10 (112114)
Project Name: Lafarge	Collection Date: 11/21/2014 9:45:00 AM
Lab ID: 1411156-025	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	199840	1	11/28/2014 23:13	AR
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	199840	1	11/28/2014 23:13	AR
1,1,2-Trichloroethane	BRL	5.0		ug/L	199840	1	11/28/2014 23:13	AR
1,1-Dichloroethane	BRL	5.0		ug/L	199840	1	11/28/2014 23:13	AR
1,1-Dichloroethene	BRL	5.0		ug/L	199840	1	11/28/2014 23:13	AR
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	199840	1	11/28/2014 23:13	AR
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	199840	1	11/28/2014 23:13	AR
1,2-Dibromoethane	BRL	5.0		ug/L	199840	1	11/28/2014 23:13	AR
1,2-Dichlorobenzene	BRL	5.0		ug/L	199840	1	11/28/2014 23:13	AR
1,2-Dichloroethane	BRL	5.0		ug/L	199840	1	11/28/2014 23:13	AR
1,2-Dichloropropane	BRL	5.0		ug/L	199840	1	11/28/2014 23:13	AR
1,3-Dichlorobenzene	BRL	5.0		ug/L	199840	1	11/28/2014 23:13	AR
1,4-Dichlorobenzene	BRL	5.0		ug/L	199840	1	11/28/2014 23:13	AR
2-Butanone	BRL	50		ug/L	199840	1	11/28/2014 23:13	AR
2-Hexanone	BRL	10		ug/L	199840	1	11/28/2014 23:13	AR
4-Methyl-2-pentanone	BRL	10		ug/L	199840	1	11/28/2014 23:13	AR
Acetone	BRL	50		ug/L	199840	1	11/28/2014 23:13	AR
Benzene	BRL	5.0		ug/L	199840	1	11/28/2014 23:13	AR
Bromodichloromethane	BRL	5.0		ug/L	199840	1	11/28/2014 23:13	AR
Bromoform	BRL	5.0		ug/L	199840	1	11/28/2014 23:13	AR
Bromomethane	BRL	5.0		ug/L	199840	1	11/28/2014 23:13	AR
Carbon disulfide	BRL	5.0		ug/L	199840	1	11/28/2014 23:13	AR
Carbon tetrachloride	BRL	5.0		ug/L	199840	1	11/28/2014 23:13	AR
Chlorobenzene	5.5	5.0		ug/L	199840	1	11/28/2014 23:13	AR
Chloroethane	BRL	10		ug/L	199840	1	11/28/2014 23:13	AR
Chloroform	BRL	5.0		ug/L	199840	1	11/28/2014 23:13	AR
Chloromethane	BRL	10		ug/L	199840	1	11/28/2014 23:13	AR
cis-1,2-Dichloroethene	5.3	5.0		ug/L	199840	1	11/28/2014 23:13	AR
cis-1,3-Dichloropropene	BRL	5.0		ug/L	199840	1	11/28/2014 23:13	AR
Cyclohexane	BRL	5.0		ug/L	199840	1	11/28/2014 23:13	AR
Dibromochloromethane	BRL	5.0		ug/L	199840	1	11/28/2014 23:13	AR
Dichlorodifluoromethane	BRL	10		ug/L	199840	1	11/28/2014 23:13	AR
Ethylbenzene	BRL	5.0		ug/L	199840	1	11/28/2014 23:13	AR
Freon-113	BRL	10		ug/L	199840	1	11/28/2014 23:13	AR
Isopropylbenzene	BRL	5.0		ug/L	199840	1	11/28/2014 23:13	AR
m,p-Xylene	BRL	5.0		ug/L	199840	1	11/28/2014 23:13	AR
Methyl acetate	BRL	5.0		ug/L	199840	1	11/28/2014 23:13	AR
Methyl tert-butyl ether	BRL	5.0		ug/L	199840	1	11/28/2014 23:13	AR
Methylcyclohexane	BRL	5.0		ug/L	199840	1	11/28/2014 23:13	AR
Methylene chloride	BRL	5.0		ug/L	199840	1	11/28/2014 23:13	AR
o-Xylene	BRL	5.0		ug/L	199840	1	11/28/2014 23:13	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: MW-10 (112114)
Project Name: Lafarge	Collection Date: 11/21/2014 9:45:00 AM
Lab ID: 1411156-025	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	199840	1	11/28/2014 23:13	AR
Tetrachloroethene	BRL	5.0		ug/L	199840	1	11/28/2014 23:13	AR
Toluene	5.3	5.0		ug/L	199840	1	11/28/2014 23:13	AR
trans-1,2-Dichloroethene	BRL	5.0		ug/L	199840	1	11/28/2014 23:13	AR
trans-1,3-Dichloropropene	BRL	5.0		ug/L	199840	1	11/28/2014 23:13	AR
Trichloroethene	BRL	5.0		ug/L	199840	1	11/28/2014 23:13	AR
Trichlorofluoromethane	BRL	5.0		ug/L	199840	1	11/28/2014 23:13	AR
Vinyl chloride	3.0	2.0		ug/L	199840	1	11/28/2014 23:13	AR
Surr: 4-Bromofluorobenzene	79.9	70.6-123		%REC	199840	1	11/28/2014 23:13	AR
Surr: Dibromofluoromethane	102	78.7-124		%REC	199840	1	11/28/2014 23:13	AR
Surr: Toluene-d8	107	81.3-120		%REC	199840	1	11/28/2014 23:13	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: MW-20 (112114)
Project Name: Lafarge	Collection Date: 11/21/2014 10:30:00 AM
Lab ID: 1411156-026	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	199840	1	11/30/2014 17:25	GC
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	199840	1	11/30/2014 17:25	GC
1,1,2-Trichloroethane	BRL	5.0		ug/L	199840	1	11/30/2014 17:25	GC
1,1-Dichloroethane	BRL	5.0		ug/L	199840	1	11/30/2014 17:25	GC
1,1-Dichloroethene	BRL	5.0		ug/L	199840	1	11/30/2014 17:25	GC
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	199840	1	11/30/2014 17:25	GC
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	199840	1	11/30/2014 17:25	GC
1,2-Dibromoethane	BRL	5.0		ug/L	199840	1	11/30/2014 17:25	GC
1,2-Dichlorobenzene	BRL	5.0		ug/L	199840	1	11/30/2014 17:25	GC
1,2-Dichloroethane	BRL	5.0		ug/L	199840	1	11/30/2014 17:25	GC
1,2-Dichloropropane	BRL	5.0		ug/L	199840	1	11/30/2014 17:25	GC
1,3-Dichlorobenzene	BRL	5.0		ug/L	199840	1	11/30/2014 17:25	GC
1,4-Dichlorobenzene	BRL	5.0		ug/L	199840	1	11/30/2014 17:25	GC
2-Butanone	BRL	50		ug/L	199840	1	11/30/2014 17:25	GC
2-Hexanone	BRL	10		ug/L	199840	1	11/30/2014 17:25	GC
4-Methyl-2-pentanone	BRL	10		ug/L	199840	1	11/30/2014 17:25	GC
Acetone	BRL	50		ug/L	199840	1	11/30/2014 17:25	GC
Benzene	BRL	5.0		ug/L	199840	1	11/30/2014 17:25	GC
Bromodichloromethane	BRL	5.0		ug/L	199840	1	11/30/2014 17:25	GC
Bromoform	BRL	5.0		ug/L	199840	1	11/30/2014 17:25	GC
Bromomethane	BRL	5.0		ug/L	199840	1	11/30/2014 17:25	GC
Carbon disulfide	BRL	5.0		ug/L	199840	1	11/30/2014 17:25	GC
Carbon tetrachloride	BRL	5.0		ug/L	199840	1	11/30/2014 17:25	GC
Chlorobenzene	BRL	5.0		ug/L	199840	1	11/30/2014 17:25	GC
Chloroethane	BRL	10		ug/L	199840	1	11/30/2014 17:25	GC
Chloroform	BRL	5.0		ug/L	199840	1	11/30/2014 17:25	GC
Chloromethane	BRL	10		ug/L	199840	1	11/30/2014 17:25	GC
cis-1,2-Dichloroethene	BRL	5.0		ug/L	199840	1	11/30/2014 17:25	GC
cis-1,3-Dichloropropene	BRL	5.0		ug/L	199840	1	11/30/2014 17:25	GC
Cyclohexane	BRL	5.0		ug/L	199840	1	11/30/2014 17:25	GC
Dibromochloromethane	BRL	5.0		ug/L	199840	1	11/30/2014 17:25	GC
Dichlorodifluoromethane	BRL	10		ug/L	199840	1	11/30/2014 17:25	GC
Ethylbenzene	BRL	5.0		ug/L	199840	1	11/30/2014 17:25	GC
Freon-113	BRL	10		ug/L	199840	1	11/30/2014 17:25	GC
Isopropylbenzene	BRL	5.0		ug/L	199840	1	11/30/2014 17:25	GC
m,p-Xylene	BRL	5.0		ug/L	199840	1	11/30/2014 17:25	GC
Methyl acetate	BRL	5.0		ug/L	199840	1	11/30/2014 17:25	GC
Methyl tert-butyl ether	BRL	5.0		ug/L	199840	1	11/30/2014 17:25	GC
Methylcyclohexane	BRL	5.0		ug/L	199840	1	11/30/2014 17:25	GC
Methylene chloride	BRL	5.0		ug/L	199840	1	11/30/2014 17:25	GC
o-Xylene	BRL	5.0		ug/L	199840	1	11/30/2014 17:25	GC

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: MW-20 (112114)
Project Name: Lafarge	Collection Date: 11/21/2014 10:30:00 AM
Lab ID: 1411156-026	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
Styrene	BRL	5.0		ug/L	199840	1	11/30/2014 17:25	GC
Tetrachloroethene	BRL	5.0		ug/L	199840	1	11/30/2014 17:25	GC
Toluene	BRL	5.0		ug/L	199840	1	11/30/2014 17:25	GC
trans-1,2-Dichloroethene	BRL	5.0		ug/L	199840	1	11/30/2014 17:25	GC
trans-1,3-Dichloropropene	BRL	5.0		ug/L	199840	1	11/30/2014 17:25	GC
Trichloroethene	BRL	5.0		ug/L	199840	1	11/30/2014 17:25	GC
Trichlorofluoromethane	BRL	5.0		ug/L	199840	1	11/30/2014 17:25	GC
Vinyl chloride	BRL	2.0		ug/L	199840	1	11/30/2014 17:25	GC
Surr: 4-Bromofluorobenzene	78.7	70.6-123		%REC	199840	1	11/30/2014 17:25	GC
Surr: Dibromofluoromethane	102	78.7-124		%REC	199840	1	11/30/2014 17:25	GC
Surr: Toluene-d8	111	81.3-120		%REC	199840	1	11/30/2014 17:25	GC

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: TRIP BLANK
Project Name: Lafarge	Collection Date: 11/21/2014
Lab ID: 1411156-027	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	199840	1	11/28/2014 19:00	AR
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	199840	1	11/28/2014 19:00	AR
1,1,2-Trichloroethane	BRL	5.0		ug/L	199840	1	11/28/2014 19:00	AR
1,1-Dichloroethane	BRL	5.0		ug/L	199840	1	11/28/2014 19:00	AR
1,1-Dichloroethene	BRL	5.0		ug/L	199840	1	11/28/2014 19:00	AR
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	199840	1	11/28/2014 19:00	AR
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	199840	1	11/28/2014 19:00	AR
1,2-Dibromoethane	BRL	5.0		ug/L	199840	1	11/28/2014 19:00	AR
1,2-Dichlorobenzene	BRL	5.0		ug/L	199840	1	11/28/2014 19:00	AR
1,2-Dichloroethane	BRL	5.0		ug/L	199840	1	11/28/2014 19:00	AR
1,2-Dichloropropane	BRL	5.0		ug/L	199840	1	11/28/2014 19:00	AR
1,3-Dichlorobenzene	BRL	5.0		ug/L	199840	1	11/28/2014 19:00	AR
1,4-Dichlorobenzene	BRL	5.0		ug/L	199840	1	11/28/2014 19:00	AR
2-Butanone	BRL	50		ug/L	199840	1	11/28/2014 19:00	AR
2-Hexanone	BRL	10		ug/L	199840	1	11/28/2014 19:00	AR
4-Methyl-2-pentanone	BRL	10		ug/L	199840	1	11/28/2014 19:00	AR
Acetone	BRL	50		ug/L	199840	1	11/28/2014 19:00	AR
Benzene	BRL	5.0		ug/L	199840	1	11/28/2014 19:00	AR
Bromodichloromethane	BRL	5.0		ug/L	199840	1	11/28/2014 19:00	AR
Bromoform	BRL	5.0		ug/L	199840	1	11/28/2014 19:00	AR
Bromomethane	BRL	5.0		ug/L	199840	1	11/28/2014 19:00	AR
Carbon disulfide	BRL	5.0		ug/L	199840	1	11/28/2014 19:00	AR
Carbon tetrachloride	BRL	5.0		ug/L	199840	1	11/28/2014 19:00	AR
Chlorobenzene	BRL	5.0		ug/L	199840	1	11/28/2014 19:00	AR
Chloroethane	BRL	10		ug/L	199840	1	11/28/2014 19:00	AR
Chloroform	BRL	5.0		ug/L	199840	1	11/28/2014 19:00	AR
Chloromethane	BRL	10		ug/L	199840	1	11/28/2014 19:00	AR
cis-1,2-Dichloroethene	BRL	5.0		ug/L	199840	1	11/28/2014 19:00	AR
cis-1,3-Dichloropropene	BRL	5.0		ug/L	199840	1	11/28/2014 19:00	AR
Cyclohexane	BRL	5.0		ug/L	199840	1	11/28/2014 19:00	AR
Dibromochloromethane	BRL	5.0		ug/L	199840	1	11/28/2014 19:00	AR
Dichlorodifluoromethane	BRL	10		ug/L	199840	1	11/28/2014 19:00	AR
Ethylbenzene	BRL	5.0		ug/L	199840	1	11/28/2014 19:00	AR
Freon-113	BRL	10		ug/L	199840	1	11/28/2014 19:00	AR
Isopropylbenzene	BRL	5.0		ug/L	199840	1	11/28/2014 19:00	AR
m,p-Xylene	BRL	5.0		ug/L	199840	1	11/28/2014 19:00	AR
Methyl acetate	BRL	5.0		ug/L	199840	1	11/28/2014 19:00	AR
Methyl tert-butyl ether	BRL	5.0		ug/L	199840	1	11/28/2014 19:00	AR
Methylcyclohexane	BRL	5.0		ug/L	199840	1	11/28/2014 19:00	AR
Methylene chloride	BRL	5.0		ug/L	199840	1	11/28/2014 19:00	AR
o-Xylene	BRL	5.0		ug/L	199840	1	11/28/2014 19:00	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: TRIP BLANK
Project Name: Lafarge	Collection Date: 11/21/2014
Lab ID: 1411156-027	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
Styrene	BRL	5.0		ug/L	199840	1	11/28/2014 19:00	AR
Tetrachloroethene	BRL	5.0		ug/L	199840	1	11/28/2014 19:00	AR
Toluene	BRL	5.0		ug/L	199840	1	11/28/2014 19:00	AR
trans-1,2-Dichloroethene	BRL	5.0		ug/L	199840	1	11/28/2014 19:00	AR
trans-1,3-Dichloropropene	BRL	5.0		ug/L	199840	1	11/28/2014 19:00	AR
Trichloroethene	BRL	5.0		ug/L	199840	1	11/28/2014 19:00	AR
Trichlorofluoromethane	BRL	5.0		ug/L	199840	1	11/28/2014 19:00	AR
Vinyl chloride	BRL	2.0		ug/L	199840	1	11/28/2014 19:00	AR
Surr: 4-Bromofluorobenzene	81.3	70.6-123		%REC	199840	1	11/28/2014 19:00	AR
Surr: Dibromofluoromethane	99.6	78.7-124		%REC	199840	1	11/28/2014 19:00	AR
Surr: Toluene-d8	104	81.3-120		%REC	199840	1	11/28/2014 19:00	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Arcadis

Work Order Number 1411550

Checklist completed by Tomas Pecurar 11/21/14 - 11/24/14
Signature Date

Carrier name: FedEx UPS Courier Client US Mail Other

Shipping container/cooler in good condition? Yes No Not Present

Custody seals intact on shipping container/cooler? Yes No Not Present

Custody seals intact on sample bottles? Yes No Not Present

Container/Temp Blank temperature in compliance? (4°C±2)* Yes No

Cooler #1 3.1° Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present? Yes No

Chain of custody signed when relinquished and received? Yes No

Chain of custody agrees with sample labels? Yes No

Samples in proper container/bottle? Yes No

Sample containers intact? Yes No

Sufficient sample volume for indicated test? Yes No

All samples received within holding time? Yes No

Was TAT marked on the COC? Yes No

Proceed with Standard TAT as per project history? Yes No Not Applicable

Water - VOA vials have zero headspace? No VOA vials submitted Yes No ^{TP} 11/24

Water - pH acceptable upon receipt? Yes No Not Applicable

Adjusted? _____ Checked by JP

Sample Condition: Good Other(Explain) _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes No

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

CLIENT: Arcadis
 Work Order: 1411I56
 Project: Lafarge

ANALYTICAL QC SUMMARY REPORT

TestCode: Total Metals by ICP E200.7

Sample ID: MB-199776	SampType: MBLK	Batch ID: 199776	Units: mg/L	Prep Date: 11/26/2014	RunNo: 280873						
Client ID:	TestCode: Total Metals by ICP E200.7	Analysis Date: 11/26/2014			SeqNo: 5942279						
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	BRL	0.0100	0	0	0	0	0	0	0	0	

Sample ID: LCS-199776	SampType: LCS	Batch ID: 199776	Units: mg/L	Prep Date: 11/26/2014	RunNo: 280873						
Client ID:	TestCode: Total Metals by ICP E200.7	Analysis Date: 11/26/2014			SeqNo: 5942282						
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1.001	0.0100	1	0	100	85	115	0	0		

Sample ID: 1411I35-005AMS	SampType: MS	Batch ID: 199776	Units: mg/L	Prep Date: 11/26/2014	RunNo: 280873						
Client ID:	TestCode: Total Metals by ICP E200.7	Analysis Date: 11/26/2014			SeqNo: 5942284						
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.9854	0.0100	1	0.001166	98.4	70	130	0	0		

Sample ID: 1411J57-001AMS	SampType: MS	Batch ID: 199776	Units: mg/L	Prep Date: 11/26/2014	RunNo: 280873						
Client ID:	TestCode: Total Metals by ICP E200.7	Analysis Date: 11/26/2014			SeqNo: 5942289						
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.9118	0.0100	1	0.002193	91	70	130	0	0		

Sample ID: 1411I35-005AMSD	SampType: MSD	Batch ID: 199776	Units: mg/L	Prep Date: 11/26/2014	RunNo: 280873						
Client ID:	TestCode: Total Metals by ICP E200.7	Analysis Date: 11/26/2014			SeqNo: 5942285						
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.972	0.0100	1	0.001166	97.1	70	130	0.9854	1.36	20	

Qualifiers:

<	Less than Result value	>	Greater than Result value	B	Analyte detected in the associated Method Blank
BRL	Below Reporting Limit	E	Estimated value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

CLIENT: Arcadis
 Work Order: 1411I56
 Project: Lafarge

ANALYTICAL QC SUMMARY REPORT

TestCode: **TCL VOLATILE ORGANICS SW8260B**

Sample ID: MB-199803	SampType: MBLK	Batch ID: 199803	Units: ug/L	Prep Date: 11/25/2014	RunNo: 280748						
Client ID:	TestCode: TCL VOLATILE ORGANICS SW8260B			Analysis Date: 11/25/2014	SeqNo: 5940962						
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	BRL	5.0	0	0	0	0	0	0	0		
1,1,2,2-Tetrachloroethane	BRL	5.0	0	0	0	0	0	0	0		
1,1,2-Trichloroethane	BRL	5.0	0	0	0	0	0	0	0		
1,1-Dichloroethane	BRL	5.0	0	0	0	0	0	0	0		
1,1-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0		
1,2,4-Trichlorobenzene	6.17	5.0	0	0	0	0	0	0	0		B
1,2-Dibromo-3-chloropropane	BRL	5.0	0	0	0	0	0	0	0		
1,2-Dibromoethane	BRL	5.0	0	0	0	0	0	0	0		
1,2-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0		
1,2-Dichloroethane	BRL	5.0	0	0	0	0	0	0	0		
1,2-Dichloropropane	BRL	5.0	0	0	0	0	0	0	0		
1,3-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0		
1,4-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0		
2-Butanone	BRL	50	0	0	0	0	0	0	0		
2-Hexanone	BRL	10	0	0	0	0	0	0	0		
4-Methyl-2-pentanone	BRL	10	0	0	0	0	0	0	0		
Acetone	BRL	50	0	0	0	0	0	0	0		
Benzene	BRL	5.0	0	0	0	0	0	0	0		
Bromodichloromethane	BRL	5.0	0	0	0	0	0	0	0		
Bromoform	BRL	5.0	0	0	0	0	0	0	0		
Bromomethane	BRL	5.0	0	0	0	0	0	0	0		
Carbon disulfide	BRL	5.0	0	0	0	0	0	0	0		
Carbon tetrachloride	BRL	5.0	0	0	0	0	0	0	0		
Chlorobenzene	BRL	5.0	0	0	0	0	0	0	0		
Chloroethane	BRL	10	0	0	0	0	0	0	0		
Chloroform	BRL	5.0	0	0	0	0	0	0	0		
Chloromethane	BRL	10	0	0	0	0	0	0	0		
cis-1,2-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0		

Qualifiers:	< Less than Result value	> Greater than Result value	B Analyte detected in the associated Method Blank
	BRL Below Reporting Limit	E Estimated value above quantitation range	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	

CLIENT: Arcadis
 Work Order: 1411I56
 Project: Lafarge

ANALYTICAL QC SUMMARY REPORT

TestCode: **TCL VOLATILE ORGANICS SW8260B**

Sample ID: MB-199803	SampType: MBLK	Batch ID: 199803	Units: ug/L	Prep Date: 11/25/2014	RunNo: 280748
Client ID:	TestCode: TCL VOLATILE ORGANICS SW8260B	Analysis Date: 11/25/2014	SeqNo: 5940962		

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
cis-1,3-Dichloropropene	BRL	5.0	0	0	0	0	0	0	0	0	
Cyclohexane	BRL	5.0	0	0	0	0	0	0	0	0	
Dibromochloromethane	BRL	5.0	0	0	0	0	0	0	0	0	
Dichlorodifluoromethane	BRL	10	0	0	0	0	0	0	0	0	
Ethylbenzene	BRL	5.0	0	0	0	0	0	0	0	0	
Freon-113	BRL	10	0	0	0	0	0	0	0	0	
Isopropylbenzene	BRL	5.0	0	0	0	0	0	0	0	0	
m,p-Xylene	BRL	5.0	0	0	0	0	0	0	0	0	
Methyl acetate	BRL	5.0	0	0	0	0	0	0	0	0	
Methyl tert-butyl ether	BRL	5.0	0	0	0	0	0	0	0	0	
Methylcyclohexane	BRL	5.0	0	0	0	0	0	0	0	0	
Methylene chloride	BRL	5.0	0	0	0	0	0	0	0	0	
o-Xylene	BRL	5.0	0	0	0	0	0	0	0	0	
Styrene	BRL	5.0	0	0	0	0	0	0	0	0	
Tetrachloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
Toluene	BRL	5.0	0	0	0	0	0	0	0	0	
trans-1,2-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
trans-1,3-Dichloropropene	BRL	5.0	0	0	0	0	0	0	0	0	
Trichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
Trichlorofluoromethane	BRL	5.0	0	0	0	0	0	0	0	0	
Vinyl chloride	BRL	2.0	0	0	0	0	0	0	0	0	
Surr: 4-Bromofluorobenzene	42.9	0	50	0	85.8	70.6	123	0	0	0	
Surr: Dibromofluoromethane	46.86	0	50	0	93.7	78.7	124	0	0	0	
Surr: Toluene-d8	51.3	0	50	0	103	81.3	120	0	0	0	

Qualifiers:	<	Less than Result value	>	Greater than Result value	B	Analyte detected in the associated Method Blank
	BRL	Below Reporting Limit	E	Estimated value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

CLIENT: Arcadis
 Work Order: 1411I56
 Project: Lafarge

ANALYTICAL QC SUMMARY REPORT

TestCode: **TCL VOLATILE ORGANICS SW8260B**

Sample ID: MB-199803	SampType: MBLK	Batch ID: 199803	Units: ug/L	Prep Date: 11/25/2014	RunNo: 280836						
Client ID:	TestCode: TCL VOLATILE ORGANICS SW8260B			Analysis Date: 11/26/2014	SeqNo: 5942729						
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,1,2,2-Tetrachloroethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,1,2-Trichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,1-Dichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,1-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
1,2,4-Trichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	
1,2-Dibromo-3-chloropropane	BRL	5.0	0	0	0	0	0	0	0	0	
1,2-Dibromoethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,2-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	
1,2-Dichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,2-Dichloropropane	BRL	5.0	0	0	0	0	0	0	0	0	
1,3-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	
1,4-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	
2-Butanone	BRL	50	0	0	0	0	0	0	0	0	
2-Hexanone	BRL	10	0	0	0	0	0	0	0	0	
4-Methyl-2-pentanone	BRL	10	0	0	0	0	0	0	0	0	
Acetone	BRL	50	0	0	0	0	0	0	0	0	
Benzene	BRL	5.0	0	0	0	0	0	0	0	0	
Bromodichloromethane	BRL	5.0	0	0	0	0	0	0	0	0	
Bromoform	BRL	5.0	0	0	0	0	0	0	0	0	
Bromomethane	BRL	5.0	0	0	0	0	0	0	0	0	
Carbon disulfide	BRL	5.0	0	0	0	0	0	0	0	0	
Carbon tetrachloride	BRL	5.0	0	0	0	0	0	0	0	0	
Chlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	
Chloroethane	BRL	10	0	0	0	0	0	0	0	0	
Chloroform	BRL	5.0	0	0	0	0	0	0	0	0	
Chloromethane	BRL	10	0	0	0	0	0	0	0	0	
cis-1,2-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	

Qualifiers:	< Less than Result value	> Greater than Result value	B Analyte detected in the associated Method Blank
	BRL Below Reporting Limit	E Estimated value above quantitation range	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	

CLIENT: Arcadis
 Work Order: 1411I56
 Project: Lafarge

ANALYTICAL QC SUMMARY REPORT

TestCode: **TCL VOLATILE ORGANICS SW8260B**

Sample ID: MB-199803	SampType: MBLK	Batch ID: 199803	Units: ug/L	Prep Date: 11/25/2014	RunNo: 280836						
Client ID:	TestCode: TCL VOLATILE ORGANICS SW8260B			Analysis Date: 11/26/2014	SeqNo: 5942729						
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
cis-1,3-Dichloropropene	BRL	5.0	0	0	0	0	0	0	0	0	
Cyclohexane	BRL	5.0	0	0	0	0	0	0	0	0	
Dibromochloromethane	BRL	5.0	0	0	0	0	0	0	0	0	
Dichlorodifluoromethane	BRL	10	0	0	0	0	0	0	0	0	
Ethylbenzene	BRL	5.0	0	0	0	0	0	0	0	0	
Freon-113	BRL	10	0	0	0	0	0	0	0	0	
Isopropylbenzene	BRL	5.0	0	0	0	0	0	0	0	0	
m,p-Xylene	BRL	5.0	0	0	0	0	0	0	0	0	
Methyl acetate	BRL	5.0	0	0	0	0	0	0	0	0	
Methyl tert-butyl ether	BRL	5.0	0	0	0	0	0	0	0	0	
Methylcyclohexane	BRL	5.0	0	0	0	0	0	0	0	0	
Methylene chloride	BRL	5.0	0	0	0	0	0	0	0	0	
o-Xylene	BRL	5.0	0	0	0	0	0	0	0	0	
Styrene	BRL	5.0	0	0	0	0	0	0	0	0	
Tetrachloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
Toluene	BRL	5.0	0	0	0	0	0	0	0	0	
trans-1,2-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
trans-1,3-Dichloropropene	BRL	5.0	0	0	0	0	0	0	0	0	
Trichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
Trichlorofluoromethane	BRL	5.0	0	0	0	0	0	0	0	0	
Vinyl chloride	BRL	2.0	0	0	0	0	0	0	0	0	
Surr: 4-Bromofluorobenzene	39.85	0	50	0	79.7	70.6	123	0	0	0	
Surr: Dibromofluoromethane	51.51	0	50	0	103	78.7	124	0	0	0	
Surr: Toluene-d8	45.47	0	50	0	90.9	81.3	120	0	0	0	

Qualifiers:	< Less than Result value	> Greater than Result value	B Analyte detected in the associated Method Blank
	BRL Below Reporting Limit	E Estimated value above quantitation range	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	

CLIENT: Arcadis
 Work Order: 1411I56
 Project: Lafarge

ANALYTICAL QC SUMMARY REPORT

TestCode: **TCL VOLATILE ORGANICS SW8260B**

Sample ID: MB-199840	SampType: MBLK	Batch ID: 199840	Units: ug/L	Prep Date: 11/26/2014	RunNo: 280841
Client ID:	TestCode: TCL VOLATILE ORGANICS SW8260B			Analysis Date: 11/27/2014	SeqNo: 5943959

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,1,2,2-Tetrachloroethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,1,2-Trichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,1-Dichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,1-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
1,2,4-Trichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	
1,2-Dibromo-3-chloropropane	BRL	5.0	0	0	0	0	0	0	0	0	
1,2-Dibromoethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,2-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	
1,2-Dichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,2-Dichloropropane	BRL	5.0	0	0	0	0	0	0	0	0	
1,3-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	
1,4-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	
2-Butanone	BRL	50	0	0	0	0	0	0	0	0	
2-Hexanone	BRL	10	0	0	0	0	0	0	0	0	
4-Methyl-2-pentanone	BRL	10	0	0	0	0	0	0	0	0	
Acetone	BRL	50	0	0	0	0	0	0	0	0	
Benzene	BRL	5.0	0	0	0	0	0	0	0	0	
Bromodichloromethane	BRL	5.0	0	0	0	0	0	0	0	0	
Bromoform	BRL	5.0	0	0	0	0	0	0	0	0	
Bromomethane	BRL	5.0	0	0	0	0	0	0	0	0	
Carbon disulfide	BRL	5.0	0	0	0	0	0	0	0	0	
Carbon tetrachloride	BRL	5.0	0	0	0	0	0	0	0	0	
Chlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	
Chloroethane	BRL	10	0	0	0	0	0	0	0	0	
Chloroform	BRL	5.0	0	0	0	0	0	0	0	0	
Chloromethane	BRL	10	0	0	0	0	0	0	0	0	
cis-1,2-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	

Qualifiers:	< Less than Result value	> Greater than Result value	B Analyte detected in the associated Method Blank
	BRL Below Reporting Limit	E Estimated value above quantitation range	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	

CLIENT: Arcadis
 Work Order: 1411I56
 Project: Lafarge

ANALYTICAL QC SUMMARY REPORT

TestCode: **TCL VOLATILE ORGANICS SW8260B**

Sample ID: MB-199840	SampType: MBLK	Batch ID: 199840	Units: ug/L	Prep Date: 11/26/2014	RunNo: 280841
Client ID:	TestCode: TCL VOLATILE ORGANICS SW8260B			Analysis Date: 11/27/2014	SeqNo: 5943959

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
cis-1,3-Dichloropropene	BRL	5.0	0	0	0	0	0	0	0	0	
Cyclohexane	BRL	5.0	0	0	0	0	0	0	0	0	
Dibromochloromethane	BRL	5.0	0	0	0	0	0	0	0	0	
Dichlorodifluoromethane	BRL	10	0	0	0	0	0	0	0	0	
Ethylbenzene	BRL	5.0	0	0	0	0	0	0	0	0	
Freon-113	BRL	10	0	0	0	0	0	0	0	0	
Isopropylbenzene	BRL	5.0	0	0	0	0	0	0	0	0	
m,p-Xylene	BRL	5.0	0	0	0	0	0	0	0	0	
Methyl acetate	BRL	5.0	0	0	0	0	0	0	0	0	
Methyl tert-butyl ether	BRL	5.0	0	0	0	0	0	0	0	0	
Methylcyclohexane	BRL	5.0	0	0	0	0	0	0	0	0	
Methylene chloride	BRL	5.0	0	0	0	0	0	0	0	0	
o-Xylene	BRL	5.0	0	0	0	0	0	0	0	0	
Styrene	BRL	5.0	0	0	0	0	0	0	0	0	
Tetrachloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
Toluene	BRL	5.0	0	0	0	0	0	0	0	0	
trans-1,2-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
trans-1,3-Dichloropropene	BRL	5.0	0	0	0	0	0	0	0	0	
Trichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
Trichlorofluoromethane	BRL	5.0	0	0	0	0	0	0	0	0	
Vinyl chloride	BRL	2.0	0	0	0	0	0	0	0	0	
Surr: 4-Bromofluorobenzene	40.69	0	50	0	81.4	70.6	123	0	0	0	
Surr: Dibromofluoromethane	48.89	0	50	0	97.8	78.7	124	0	0	0	
Surr: Toluene-d8	52.82	0	50	0	106	81.3	120	0	0	0	

Qualifiers:	< Less than Result value	> Greater than Result value	B Analyte detected in the associated Method Blank
	BRL Below Reporting Limit	E Estimated value above quantitation range	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	

CLIENT: Arcadis
 Work Order: 1411I56
 Project: Lafarge

ANALYTICAL QC SUMMARY REPORT

TestCode: **TCL VOLATILE ORGANICS SW8260B**

Sample ID: LCS-199840	SampType: LCS	Batch ID: 199840	Units: ug/L	Prep Date: 11/26/2014	RunNo: 280841						
Client ID:	TestCode: TCL VOLATILE ORGANICS SW8260B	Analysis Date: 11/26/2014	SeqNo: 5942193								
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	16.41	5.0	20	0	82	64.2	137	0	0		
Benzene	16.63	5.0	20	0	83.2	72.8	128	0	0		
Chlorobenzene	17.66	5.0	20	0	88.3	72.3	126	0	0		
Toluene	16.15	5.0	20	0	80.8	74.9	127	0	0		
Trichloroethene	17.22	5.0	20	0	86.1	70.5	134	0	0		
Surr: 4-Bromofluorobenzene	44.84	0	50	0	89.7	70.6	123	0	0		
Surr: Dibromofluoromethane	47.08	0	50	0	94.2	78.7	124	0	0		
Surr: Toluene-d8	49.67	0	50	0	99.3	81.3	120	0	0		

Sample ID: LCS-199803	SampType: LCS	Batch ID: 199803	Units: ug/L	Prep Date: 11/25/2014	RunNo: 280956						
Client ID:	TestCode: TCL VOLATILE ORGANICS SW8260B	Analysis Date: 11/28/2014	SeqNo: 5944602								
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	48.19	5.0	50	0	96.4	64.2	137	0	0		
Benzene	47.55	5.0	50	0	95.1	72.8	128	0	0		
Chlorobenzene	46.45	5.0	50	0	92.9	72.3	126	0	0		
Toluene	42.8	5.0	50	0	85.6	74.9	127	0	0		
Trichloroethene	46.21	5.0	50	0	92.4	70.5	134	0	0		
Surr: 4-Bromofluorobenzene	40.38	0	50	0	80.8	70.6	123	0	0		
Surr: Dibromofluoromethane	47.43	0	50	0	94.9	78.7	124	0	0		
Surr: Toluene-d8	50.27	0	50	0	101	81.3	120	0	0		

Sample ID: 1411I56-025AMS	SampType: MS	Batch ID: 199840	Units: ug/L	Prep Date: 11/26/2014	RunNo: 280956						
Client ID: MW-10 (112114)	TestCode: TCL VOLATILE ORGANICS SW8260B	Analysis Date: 11/28/2014	SeqNo: 5944611								
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	61.58	5.0	50	0	123	60.2	159	0	0		
Benzene	51.08	5.0	50	3.01	96.1	70.2	138	0	0		

Qualifiers:	< Less than Result value BRL Below Reporting Limit J Estimated value detected below Reporting Limit Rpt Lim Reporting Limit	> Greater than Result value E Estimated value above quantitation range N Analyte not NELAC certified S Spike Recovery outside limits due to matrix	B Analyte detected in the associated Method Blank H Holding times for preparation or analysis exceeded R RPD outside limits due to matrix
--------------------	--	---	---

CLIENT: Arcadis
 Work Order: 1411I56
 Project: Lafarge

ANALYTICAL QC SUMMARY REPORT

TestCode: **TCL VOLATILE ORGANICS SW8260B**

Sample ID: 1411I56-025AMS	SampType: MS	Batch ID: 199840	Units: ug/L	Prep Date: 11/26/2014	RunNo: 280956
Client ID: MW-10 (112114)	TestCode: TCL VOLATILE ORGANICS SW8260B			Analysis Date: 11/28/2014	SeqNo: 5944611

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chlorobenzene	46.03	5.0	50	5.49	81.1	70.1	133	0	0		
Toluene	46.57	5.0	50	5.27	82.6	70	139	0	0		
Trichloroethene	50.39	5.0	50	3.24	94.3	70.1	144	0	0		
Surr: 4-Bromofluorobenzene	40.37	0	50	0	80.7	70.6	123	0	0		
Surr: Dibromofluoromethane	49.02	0	50	0	98	78.7	124	0	0		
Surr: Toluene-d8	51.4	0	50	0	103	81.3	120	0	0		

Sample ID: 1411I56-001AMS	SampType: MS	Batch ID: 199803	Units: ug/L	Prep Date: 11/25/2014	RunNo: 280836
Client ID: MW-31 (112014)	TestCode: TCL VOLATILE ORGANICS SW8260B			Analysis Date: 11/26/2014	SeqNo: 5945037

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	1317	100	1000	0	132	60.2	159	0	0		
Benzene	1067	100	1000	0.91	107	70.2	138	0	0		
Chlorobenzene	1134	100	1000	0	113	70.1	133	0	0		
Toluene	1119	100	1000	0	112	70	139	0	0		
Trichloroethene	1150	100	1000	0	115	70.1	144	0	0		
Surr: 4-Bromofluorobenzene	782.6	0	1000	0	78.3	70.6	123	0	0		
Surr: Dibromofluoromethane	986	0	1000	0	98.6	78.7	124	0	0		
Surr: Toluene-d8	892.4	0	1000	0	89.2	81.3	120	0	0		

Sample ID: 1411I56-025AMSD	SampType: MSD	Batch ID: 199840	Units: ug/L	Prep Date: 11/26/2014	RunNo: 280956
Client ID: MW-10 (112114)	TestCode: TCL VOLATILE ORGANICS SW8260B			Analysis Date: 11/28/2014	SeqNo: 5944612

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	65.29	5.0	50	0	131	60.2	159	61.58	5.85	19.2	
Benzene	53.69	5.0	50	3.01	101	70.2	138	51.08	4.98	20	
Chlorobenzene	50.8	5.0	50	5.49	90.6	70.1	133	46.03	9.85	20	
Toluene	49.66	5.0	50	5.27	88.8	70	139	46.57	6.42	20	

Qualifiers:	<	Less than Result value	>	Greater than Result value	B	Analyte detected in the associated Method Blank
	BRL	Below Reporting Limit	E	Estimated value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

CLIENT: Arcadis
 Work Order: 1411I56
 Project: Lafarge

ANALYTICAL QC SUMMARY REPORT

TestCode: TCL VOLATILE ORGANICS SW8260B

Sample ID: 1411I56-025AMSD		SampType: MSD		Batch ID: 199840		Units: ug/L		Prep Date: 11/26/2014		RunNo: 280956	
Client ID: MW-10 (112114)		TestCode: TCL VOLATILE ORGANICS SW8260B				Analysis Date: 11/28/2014		SeqNo: 5944612			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Trichloroethene	52.55	5.0	50	3.24	98.6	70.1	144	50.39	4.20	20	
Surr: 4-Bromofluorobenzene	40.96	0	50	0	81.9	70.6	123	40.37	0	0	
Surr: Dibromofluoromethane	48.45	0	50	0	96.9	78.7	124	49.02	0	0	
Surr: Toluene-d8	51.38	0	50	0	103	81.3	120	51.4	0	0	

Sample ID: 1411I56-001AMSD		SampType: MSD		Batch ID: 199803		Units: ug/L		Prep Date: 11/25/2014		RunNo: 280836	
Client ID: MW-31 (112014)		TestCode: TCL VOLATILE ORGANICS SW8260B				Analysis Date: 11/26/2014		SeqNo: 5945039			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	1240	100	1000	0	124	60.2	159	1317	6.01	19.2	
Benzene	996.8	100	1000	0.91	99.6	70.2	138	1067	6.77	20	
Chlorobenzene	1133	100	1000	0	113	70.1	133	1134	0.106	20	
Toluene	1077	100	1000	0	108	70	139	1119	3.81	20	
Trichloroethene	1061	100	1000	0	106	70.1	144	1150	8.03	20	
Surr: 4-Bromofluorobenzene	785	0	1000	0	78.5	70.6	123	782.6	0	0	
Surr: Dibromofluoromethane	994.2	0	1000	0	99.4	78.7	124	986	0	0	
Surr: Toluene-d8	918.8	0	1000	0	91.9	81.3	120	892.4	0	0	

Qualifiers:	< Less than Result value BRL Below Reporting Limit J Estimated value detected below Reporting Limit Rpt Lim Reporting Limit	> Greater than Result value E Estimated value above quantitation range N Analyte not NELAC certified S Spike Recovery outside limits due to matrix	B Analyte detected in the associated Method Blank H Holding times for preparation or analysis exceeded R RPD outside limits due to matrix
--------------------	--	---	---



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

December 02, 2014

Greg Sitomer
Arcadis
1000 Cobb Place Blvd., Bldg. 500-A
Kennesaw GA 30144

TEL: (770) 431-8666
FAX: (770) 435-2666

RE: Lafarge

Dear Greg Sitomer:

Order No: 1411K84

Analytical Environmental Services, Inc. received 7 samples on 11/24/2014 3:25:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/14-06/30/15.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/15.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Chantelle Kanhai
Project Manager

Client: Arcadis	Client Sample ID: MW-2 (112414)
Project Name: Lafarge	Collection Date: 11/24/2014 10:35:00 AM
Lab ID: 1411K84-001	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Metals by ICP E200.7		(E200.7)						
Lead	BRL	0.0100		mg/L	199808	1	11/28/2014 21:16	JL
TCL VOLATILE ORGANICS SW8260B		(SW5030B)						
1,1,1-Trichloroethane	BRL	5.0		ug/L	199840	1	12/01/2014 00:27	GC
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	199840	1	12/01/2014 00:27	GC
1,1,2-Trichloroethane	BRL	5.0		ug/L	199840	1	12/01/2014 00:27	GC
1,1-Dichloroethane	BRL	5.0		ug/L	199840	1	12/01/2014 00:27	GC
1,1-Dichloroethene	BRL	5.0		ug/L	199840	1	12/01/2014 00:27	GC
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	199840	1	12/01/2014 00:27	GC
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	199840	1	12/01/2014 00:27	GC
1,2-Dibromoethane	BRL	5.0		ug/L	199840	1	12/01/2014 00:27	GC
1,2-Dichlorobenzene	BRL	5.0		ug/L	199840	1	12/01/2014 00:27	GC
1,2-Dichloroethane	BRL	5.0		ug/L	199840	1	12/01/2014 00:27	GC
1,2-Dichloropropane	BRL	5.0		ug/L	199840	1	12/01/2014 00:27	GC
1,3-Dichlorobenzene	BRL	5.0		ug/L	199840	1	12/01/2014 00:27	GC
1,4-Dichlorobenzene	BRL	5.0		ug/L	199840	1	12/01/2014 00:27	GC
2-Butanone	BRL	50		ug/L	199840	1	12/01/2014 00:27	GC
2-Hexanone	BRL	10		ug/L	199840	1	12/01/2014 00:27	GC
4-Methyl-2-pentanone	BRL	10		ug/L	199840	1	12/01/2014 00:27	GC
Acetone	BRL	50		ug/L	199840	1	12/01/2014 00:27	GC
Benzene	2800	100		ug/L	199840	20	12/01/2014 15:20	GC
Bromodichloromethane	BRL	5.0		ug/L	199840	1	12/01/2014 00:27	GC
Bromoform	BRL	5.0		ug/L	199840	1	12/01/2014 00:27	GC
Bromomethane	BRL	5.0		ug/L	199840	1	12/01/2014 00:27	GC
Carbon disulfide	BRL	5.0		ug/L	199840	1	12/01/2014 00:27	GC
Carbon tetrachloride	BRL	5.0		ug/L	199840	1	12/01/2014 00:27	GC
Chlorobenzene	BRL	5.0		ug/L	199840	1	12/01/2014 00:27	GC
Chloroethane	BRL	10		ug/L	199840	1	12/01/2014 00:27	GC
Chloroform	BRL	5.0		ug/L	199840	1	12/01/2014 00:27	GC
Chloromethane	BRL	10		ug/L	199840	1	12/01/2014 00:27	GC
cis-1,2-Dichloroethene	BRL	5.0		ug/L	199840	1	12/01/2014 00:27	GC
cis-1,3-Dichloropropene	BRL	5.0		ug/L	199840	1	12/01/2014 00:27	GC
Cyclohexane	460	50		ug/L	199840	10	11/30/2014 21:38	GC
Dibromochloromethane	BRL	5.0		ug/L	199840	1	12/01/2014 00:27	GC
Dichlorodifluoromethane	BRL	10		ug/L	199840	1	12/01/2014 00:27	GC
Ethylbenzene	300	50		ug/L	199840	10	11/30/2014 21:38	GC
Freon-113	BRL	10		ug/L	199840	1	12/01/2014 00:27	GC
Isopropylbenzene	BRL	5.0		ug/L	199840	1	12/01/2014 00:27	GC
m,p-Xylene	840	50		ug/L	199840	10	11/30/2014 21:38	GC
Methyl acetate	BRL	5.0		ug/L	199840	1	12/01/2014 00:27	GC
Methyl tert-butyl ether	BRL	5.0		ug/L	199840	1	12/01/2014 00:27	GC

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: MW-2 (112414)
Project Name: Lafarge	Collection Date: 11/24/2014 10:35:00 AM
Lab ID: 1411K84-001	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
Methylcyclohexane	270	50		ug/L	199840	10	11/30/2014 21:38	GC
Methylene chloride	BRL	5.0		ug/L	199840	1	12/01/2014 00:27	GC
o-Xylene	48	5.0		ug/L	199840	1	12/01/2014 00:27	GC
Styrene	BRL	5.0		ug/L	199840	1	12/01/2014 00:27	GC
Tetrachloroethene	BRL	5.0		ug/L	199840	1	12/01/2014 00:27	GC
Toluene	61	5.0		ug/L	199840	1	12/01/2014 00:27	GC
trans-1,2-Dichloroethene	BRL	5.0		ug/L	199840	1	12/01/2014 00:27	GC
trans-1,3-Dichloropropene	BRL	5.0		ug/L	199840	1	12/01/2014 00:27	GC
Trichloroethene	BRL	5.0		ug/L	199840	1	12/01/2014 00:27	GC
Trichlorofluoromethane	BRL	5.0		ug/L	199840	1	12/01/2014 00:27	GC
Vinyl chloride	480	20		ug/L	199840	10	11/30/2014 21:38	GC
Surr: 4-Bromofluorobenzene	80.4	70.6-123		%REC	199840	10	11/30/2014 21:38	GC
Surr: 4-Bromofluorobenzene	88.1	70.6-123		%REC	199840	1	12/01/2014 00:27	GC
Surr: 4-Bromofluorobenzene	87.4	70.6-123		%REC	199840	20	12/01/2014 15:20	GC
Surr: Dibromofluoromethane	103	78.7-124		%REC	199840	20	12/01/2014 15:20	GC
Surr: Dibromofluoromethane	86.5	78.7-124		%REC	199840	1	12/01/2014 00:27	GC
Surr: Dibromofluoromethane	97.1	78.7-124		%REC	199840	10	11/30/2014 21:38	GC
Surr: Toluene-d8	106	81.3-120		%REC	199840	20	12/01/2014 15:20	GC
Surr: Toluene-d8	96.6	81.3-120		%REC	199840	1	12/01/2014 00:27	GC
Surr: Toluene-d8	103	81.3-120		%REC	199840	10	11/30/2014 21:38	GC

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 2-Dec-14

Client: Arcadis	Client Sample ID: MW-30 (112414)
Project Name: Lafarge	Collection Date: 11/24/2014 9:20:00 AM
Lab ID: 1411K84-002	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Metals by ICP E200.7		(E200.7)						
Lead	BRL	0.0100		mg/L	199808	1	11/28/2014 21:20	JL
TCL VOLATILE ORGANICS SW8260B		(SW5030B)						
1,1,1-Trichloroethane	BRL	5.0		ug/L	199840	1	12/01/2014 00:55	GC
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	199840	1	12/01/2014 00:55	GC
1,1,2-Trichloroethane	BRL	5.0		ug/L	199840	1	12/01/2014 00:55	GC
1,1-Dichloroethane	BRL	5.0		ug/L	199840	1	12/01/2014 00:55	GC
1,1-Dichloroethene	BRL	5.0		ug/L	199840	1	12/01/2014 00:55	GC
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	199840	1	12/01/2014 00:55	GC
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	199840	1	12/01/2014 00:55	GC
1,2-Dibromoethane	BRL	5.0		ug/L	199840	1	12/01/2014 00:55	GC
1,2-Dichlorobenzene	BRL	5.0		ug/L	199840	1	12/01/2014 00:55	GC
1,2-Dichloroethane	BRL	5.0		ug/L	199840	1	12/01/2014 00:55	GC
1,2-Dichloropropane	BRL	5.0		ug/L	199840	1	12/01/2014 00:55	GC
1,3-Dichlorobenzene	BRL	5.0		ug/L	199840	1	12/01/2014 00:55	GC
1,4-Dichlorobenzene	BRL	5.0		ug/L	199840	1	12/01/2014 00:55	GC
2-Butanone	BRL	50		ug/L	199840	1	12/01/2014 00:55	GC
2-Hexanone	BRL	10		ug/L	199840	1	12/01/2014 00:55	GC
4-Methyl-2-pentanone	BRL	10		ug/L	199840	1	12/01/2014 00:55	GC
Acetone	BRL	50		ug/L	199840	1	12/01/2014 00:55	GC
Benzene	59	5.0		ug/L	199840	1	12/01/2014 00:55	GC
Bromodichloromethane	BRL	5.0		ug/L	199840	1	12/01/2014 00:55	GC
Bromoform	BRL	5.0		ug/L	199840	1	12/01/2014 00:55	GC
Bromomethane	BRL	5.0		ug/L	199840	1	12/01/2014 00:55	GC
Carbon disulfide	BRL	5.0		ug/L	199840	1	12/01/2014 00:55	GC
Carbon tetrachloride	BRL	5.0		ug/L	199840	1	12/01/2014 00:55	GC
Chlorobenzene	BRL	5.0		ug/L	199840	1	12/01/2014 00:55	GC
Chloroethane	BRL	10		ug/L	199840	1	12/01/2014 00:55	GC
Chloroform	BRL	5.0		ug/L	199840	1	12/01/2014 00:55	GC
Chloromethane	BRL	10		ug/L	199840	1	12/01/2014 00:55	GC
cis-1,2-Dichloroethene	BRL	5.0		ug/L	199840	1	12/01/2014 00:55	GC
cis-1,3-Dichloropropene	BRL	5.0		ug/L	199840	1	12/01/2014 00:55	GC
Cyclohexane	15	5.0		ug/L	199840	1	12/01/2014 00:55	GC
Dibromochloromethane	BRL	5.0		ug/L	199840	1	12/01/2014 00:55	GC
Dichlorodifluoromethane	BRL	10		ug/L	199840	1	12/01/2014 00:55	GC
Ethylbenzene	21	5.0		ug/L	199840	1	12/01/2014 00:55	GC
Freon-113	BRL	10		ug/L	199840	1	12/01/2014 00:55	GC
Isopropylbenzene	BRL	5.0		ug/L	199840	1	12/01/2014 00:55	GC
m,p-Xylene	54	5.0		ug/L	199840	1	12/01/2014 00:55	GC
Methyl acetate	BRL	5.0		ug/L	199840	1	12/01/2014 00:55	GC
Methyl tert-butyl ether	BRL	5.0		ug/L	199840	1	12/01/2014 00:55	GC

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: MW-30 (112414)
Project Name: Lafarge	Collection Date: 11/24/2014 9:20:00 AM
Lab ID: 1411K84-002	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5030B)			
Methylcyclohexane	20	5.0		ug/L	199840	1	12/01/2014 00:55	GC
Methylene chloride	BRL	5.0		ug/L	199840	1	12/01/2014 00:55	GC
o-Xylene	BRL	5.0		ug/L	199840	1	12/01/2014 00:55	GC
Styrene	BRL	5.0		ug/L	199840	1	12/01/2014 00:55	GC
Tetrachloroethene	BRL	5.0		ug/L	199840	1	12/01/2014 00:55	GC
Toluene	BRL	5.0		ug/L	199840	1	12/01/2014 00:55	GC
trans-1,2-Dichloroethene	BRL	5.0		ug/L	199840	1	12/01/2014 00:55	GC
trans-1,3-Dichloropropene	BRL	5.0		ug/L	199840	1	12/01/2014 00:55	GC
Trichloroethene	BRL	5.0		ug/L	199840	1	12/01/2014 00:55	GC
Trichlorofluoromethane	BRL	5.0		ug/L	199840	1	12/01/2014 00:55	GC
Vinyl chloride	2.1	2.0		ug/L	199840	1	12/01/2014 00:55	GC
Surr: 4-Bromofluorobenzene	84	70.6-123		%REC	199840	1	12/01/2014 00:55	GC
Surr: Dibromofluoromethane	105	78.7-124		%REC	199840	1	12/01/2014 00:55	GC
Surr: Toluene-d8	107	81.3-120		%REC	199840	1	12/01/2014 00:55	GC

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 2-Dec-14

Client: Arcadis	Client Sample ID: MW-17 (112414)
Project Name: Lafarge	Collection Date: 11/24/2014 11:30:00 AM
Lab ID: 1411K84-003	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Metals by ICP E200.7		(E200.7)						
Lead	BRL	0.0100		mg/L	199808	1	11/28/2014 21:24	JL
TCL VOLATILE ORGANICS SW8260B		(SW5030B)						
1,1,1-Trichloroethane	BRL	5.0		ug/L	199840	1	12/01/2014 01:23	GC
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	199840	1	12/01/2014 01:23	GC
1,1,2-Trichloroethane	BRL	5.0		ug/L	199840	1	12/01/2014 01:23	GC
1,1-Dichloroethane	BRL	5.0		ug/L	199840	1	12/01/2014 01:23	GC
1,1-Dichloroethene	BRL	5.0		ug/L	199840	1	12/01/2014 01:23	GC
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	199840	1	12/01/2014 01:23	GC
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	199840	1	12/01/2014 01:23	GC
1,2-Dibromoethane	BRL	5.0		ug/L	199840	1	12/01/2014 01:23	GC
1,2-Dichlorobenzene	BRL	5.0		ug/L	199840	1	12/01/2014 01:23	GC
1,2-Dichloroethane	BRL	5.0		ug/L	199840	1	12/01/2014 01:23	GC
1,2-Dichloropropane	BRL	5.0		ug/L	199840	1	12/01/2014 01:23	GC
1,3-Dichlorobenzene	BRL	5.0		ug/L	199840	1	12/01/2014 01:23	GC
1,4-Dichlorobenzene	BRL	5.0		ug/L	199840	1	12/01/2014 01:23	GC
2-Butanone	BRL	50		ug/L	199840	1	12/01/2014 01:23	GC
2-Hexanone	BRL	10		ug/L	199840	1	12/01/2014 01:23	GC
4-Methyl-2-pentanone	BRL	10		ug/L	199840	1	12/01/2014 01:23	GC
Acetone	BRL	50		ug/L	199840	1	12/01/2014 01:23	GC
Benzene	360	50		ug/L	199840	10	11/30/2014 22:34	GC
Bromodichloromethane	BRL	5.0		ug/L	199840	1	12/01/2014 01:23	GC
Bromoform	BRL	5.0		ug/L	199840	1	12/01/2014 01:23	GC
Bromomethane	BRL	5.0		ug/L	199840	1	12/01/2014 01:23	GC
Carbon disulfide	BRL	5.0		ug/L	199840	1	12/01/2014 01:23	GC
Carbon tetrachloride	BRL	5.0		ug/L	199840	1	12/01/2014 01:23	GC
Chlorobenzene	BRL	5.0		ug/L	199840	1	12/01/2014 01:23	GC
Chloroethane	BRL	10		ug/L	199840	1	12/01/2014 01:23	GC
Chloroform	BRL	5.0		ug/L	199840	1	12/01/2014 01:23	GC
Chloromethane	BRL	10		ug/L	199840	1	12/01/2014 01:23	GC
cis-1,2-Dichloroethene	17	5.0		ug/L	199840	1	12/01/2014 01:23	GC
cis-1,3-Dichloropropene	BRL	5.0		ug/L	199840	1	12/01/2014 01:23	GC
Cyclohexane	1600	50		ug/L	199840	10	11/30/2014 22:34	GC
Dibromochloromethane	BRL	5.0		ug/L	199840	1	12/01/2014 01:23	GC
Dichlorodifluoromethane	BRL	10		ug/L	199840	1	12/01/2014 01:23	GC
Ethylbenzene	100	5.0		ug/L	199840	1	12/01/2014 01:23	GC
Freon-113	BRL	10		ug/L	199840	1	12/01/2014 01:23	GC
Isopropylbenzene	BRL	5.0		ug/L	199840	1	12/01/2014 01:23	GC
m,p-Xylene	300	5.0		ug/L	199840	1	12/01/2014 01:23	GC
Methyl acetate	BRL	5.0		ug/L	199840	1	12/01/2014 01:23	GC
Methyl tert-butyl ether	BRL	5.0		ug/L	199840	1	12/01/2014 01:23	GC

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: MW-17 (112414)
Project Name: Lafarge	Collection Date: 11/24/2014 11:30:00 AM
Lab ID: 1411K84-003	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
Methylcyclohexane	680	50		ug/L	199840	10	11/30/2014 22:34	GC
Methylene chloride	BRL	5.0		ug/L	199840	1	12/01/2014 01:23	GC
o-Xylene	BRL	5.0		ug/L	199840	1	12/01/2014 01:23	GC
Styrene	BRL	5.0		ug/L	199840	1	12/01/2014 01:23	GC
Tetrachloroethene	BRL	5.0		ug/L	199840	1	12/01/2014 01:23	GC
Toluene	BRL	5.0		ug/L	199840	1	12/01/2014 01:23	GC
trans-1,2-Dichloroethene	BRL	5.0		ug/L	199840	1	12/01/2014 01:23	GC
trans-1,3-Dichloropropene	BRL	5.0		ug/L	199840	1	12/01/2014 01:23	GC
Trichloroethene	BRL	5.0		ug/L	199840	1	12/01/2014 01:23	GC
Trichlorofluoromethane	BRL	5.0		ug/L	199840	1	12/01/2014 01:23	GC
Vinyl chloride	6.6	2.0		ug/L	199840	1	12/01/2014 01:23	GC
Surr: 4-Bromofluorobenzene	81.8	70.6-123		%REC	199840	10	11/30/2014 22:34	GC
Surr: 4-Bromofluorobenzene	87.9	70.6-123		%REC	199840	1	12/01/2014 01:23	GC
Surr: Dibromofluoromethane	96.4	78.7-124		%REC	199840	1	12/01/2014 01:23	GC
Surr: Dibromofluoromethane	105	78.7-124		%REC	199840	10	11/30/2014 22:34	GC
Surr: Toluene-d8	105	81.3-120		%REC	199840	1	12/01/2014 01:23	GC
Surr: Toluene-d8	106	81.3-120		%REC	199840	10	11/30/2014 22:34	GC

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: MW-3 (112414)
Project Name: Lafarge	Collection Date: 11/24/2014 12:25:00 PM
Lab ID: 1411K84-004	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Metals by ICP E200.7		(E200.7)						
Lead	BRL	0.0100		mg/L	199808	1	11/28/2014 21:27	JL
TCL VOLATILE ORGANICS SW8260B		(SW5030B)						
1,1,1-Trichloroethane	BRL	5.0		ug/L	199840	1	12/01/2014 01:51	GC
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	199840	1	12/01/2014 01:51	GC
1,1,2-Trichloroethane	BRL	5.0		ug/L	199840	1	12/01/2014 01:51	GC
1,1-Dichloroethane	BRL	5.0		ug/L	199840	1	12/01/2014 01:51	GC
1,1-Dichloroethene	BRL	5.0		ug/L	199840	1	12/01/2014 01:51	GC
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	199840	1	12/01/2014 01:51	GC
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	199840	1	12/01/2014 01:51	GC
1,2-Dibromoethane	BRL	5.0		ug/L	199840	1	12/01/2014 01:51	GC
1,2-Dichlorobenzene	BRL	5.0		ug/L	199840	1	12/01/2014 01:51	GC
1,2-Dichloroethane	BRL	5.0		ug/L	199840	1	12/01/2014 01:51	GC
1,2-Dichloropropane	BRL	5.0		ug/L	199840	1	12/01/2014 01:51	GC
1,3-Dichlorobenzene	BRL	5.0		ug/L	199840	1	12/01/2014 01:51	GC
1,4-Dichlorobenzene	BRL	5.0		ug/L	199840	1	12/01/2014 01:51	GC
2-Butanone	BRL	50		ug/L	199840	1	12/01/2014 01:51	GC
2-Hexanone	BRL	10		ug/L	199840	1	12/01/2014 01:51	GC
4-Methyl-2-pentanone	BRL	10		ug/L	199840	1	12/01/2014 01:51	GC
Acetone	BRL	50		ug/L	199840	1	12/01/2014 01:51	GC
Benzene	13	5.0		ug/L	199840	1	12/01/2014 01:51	GC
Bromodichloromethane	BRL	5.0		ug/L	199840	1	12/01/2014 01:51	GC
Bromoform	BRL	5.0		ug/L	199840	1	12/01/2014 01:51	GC
Bromomethane	BRL	5.0		ug/L	199840	1	12/01/2014 01:51	GC
Carbon disulfide	BRL	5.0		ug/L	199840	1	12/01/2014 01:51	GC
Carbon tetrachloride	BRL	5.0		ug/L	199840	1	12/01/2014 01:51	GC
Chlorobenzene	BRL	5.0		ug/L	199840	1	12/01/2014 01:51	GC
Chloroethane	BRL	10		ug/L	199840	1	12/01/2014 01:51	GC
Chloroform	BRL	5.0		ug/L	199840	1	12/01/2014 01:51	GC
Chloromethane	BRL	10		ug/L	199840	1	12/01/2014 01:51	GC
cis-1,2-Dichloroethene	BRL	5.0		ug/L	199840	1	12/01/2014 01:51	GC
cis-1,3-Dichloropropene	BRL	5.0		ug/L	199840	1	12/01/2014 01:51	GC
Cyclohexane	38	5.0		ug/L	199840	1	12/01/2014 01:51	GC
Dibromochloromethane	BRL	5.0		ug/L	199840	1	12/01/2014 01:51	GC
Dichlorodifluoromethane	BRL	10		ug/L	199840	1	12/01/2014 01:51	GC
Ethylbenzene	5.5	5.0		ug/L	199840	1	12/01/2014 01:51	GC
Freon-113	BRL	10		ug/L	199840	1	12/01/2014 01:51	GC
Isopropylbenzene	BRL	5.0		ug/L	199840	1	12/01/2014 01:51	GC
m,p-Xylene	14	5.0		ug/L	199840	1	12/01/2014 01:51	GC
Methyl acetate	BRL	5.0		ug/L	199840	1	12/01/2014 01:51	GC
Methyl tert-butyl ether	BRL	5.0		ug/L	199840	1	12/01/2014 01:51	GC

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: MW-3 (112414)
Project Name: Lafarge	Collection Date: 11/24/2014 12:25:00 PM
Lab ID: 1411K84-004	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5030B)			
Methylcyclohexane	39	5.0		ug/L	199840	1	12/01/2014 01:51	GC
Methylene chloride	BRL	5.0		ug/L	199840	1	12/01/2014 01:51	GC
o-Xylene	BRL	5.0		ug/L	199840	1	12/01/2014 01:51	GC
Styrene	BRL	5.0		ug/L	199840	1	12/01/2014 01:51	GC
Tetrachloroethene	BRL	5.0		ug/L	199840	1	12/01/2014 01:51	GC
Toluene	BRL	5.0		ug/L	199840	1	12/01/2014 01:51	GC
trans-1,2-Dichloroethene	BRL	5.0		ug/L	199840	1	12/01/2014 01:51	GC
trans-1,3-Dichloropropene	BRL	5.0		ug/L	199840	1	12/01/2014 01:51	GC
Trichloroethene	BRL	5.0		ug/L	199840	1	12/01/2014 01:51	GC
Trichlorofluoromethane	BRL	5.0		ug/L	199840	1	12/01/2014 01:51	GC
Vinyl chloride	BRL	2.0		ug/L	199840	1	12/01/2014 01:51	GC
Surr: 4-Bromofluorobenzene	79.9	70.6-123		%REC	199840	1	12/01/2014 01:51	GC
Surr: Dibromofluoromethane	104	78.7-124		%REC	199840	1	12/01/2014 01:51	GC
Surr: Toluene-d8	104	81.3-120		%REC	199840	1	12/01/2014 01:51	GC

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 2-Dec-14

Client: Arcadis	Client Sample ID: MW-5R (112414)
Project Name: Lafarge	Collection Date: 11/24/2014 1:30:00 PM
Lab ID: 1411K84-005	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Metals by ICP E200.7		(E200.7)						
Lead	BRL	0.0100		mg/L	199808	1	11/28/2014 21:31	JL
TCL VOLATILE ORGANICS SW8260B		(SW5030B)						
1,1,1-Trichloroethane	BRL	5.0		ug/L	199840	1	12/01/2014 02:19	GC
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	199840	1	12/01/2014 02:19	GC
1,1,2-Trichloroethane	BRL	5.0		ug/L	199840	1	12/01/2014 02:19	GC
1,1-Dichloroethane	BRL	5.0		ug/L	199840	1	12/01/2014 02:19	GC
1,1-Dichloroethene	BRL	5.0		ug/L	199840	1	12/01/2014 02:19	GC
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	199840	1	12/01/2014 02:19	GC
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	199840	1	12/01/2014 02:19	GC
1,2-Dibromoethane	BRL	5.0		ug/L	199840	1	12/01/2014 02:19	GC
1,2-Dichlorobenzene	BRL	5.0		ug/L	199840	1	12/01/2014 02:19	GC
1,2-Dichloroethane	BRL	5.0		ug/L	199840	1	12/01/2014 02:19	GC
1,2-Dichloropropane	BRL	5.0		ug/L	199840	1	12/01/2014 02:19	GC
1,3-Dichlorobenzene	BRL	5.0		ug/L	199840	1	12/01/2014 02:19	GC
1,4-Dichlorobenzene	BRL	5.0		ug/L	199840	1	12/01/2014 02:19	GC
2-Butanone	BRL	50		ug/L	199840	1	12/01/2014 02:19	GC
2-Hexanone	BRL	10		ug/L	199840	1	12/01/2014 02:19	GC
4-Methyl-2-pentanone	BRL	10		ug/L	199840	1	12/01/2014 02:19	GC
Acetone	BRL	50		ug/L	199840	1	12/01/2014 02:19	GC
Benzene	BRL	5.0		ug/L	199840	1	12/01/2014 02:19	GC
Bromodichloromethane	BRL	5.0		ug/L	199840	1	12/01/2014 02:19	GC
Bromoform	BRL	5.0		ug/L	199840	1	12/01/2014 02:19	GC
Bromomethane	BRL	5.0		ug/L	199840	1	12/01/2014 02:19	GC
Carbon disulfide	BRL	5.0		ug/L	199840	1	12/01/2014 02:19	GC
Carbon tetrachloride	BRL	5.0		ug/L	199840	1	12/01/2014 02:19	GC
Chlorobenzene	BRL	5.0		ug/L	199840	1	12/01/2014 02:19	GC
Chloroethane	BRL	10		ug/L	199840	1	12/01/2014 02:19	GC
Chloroform	BRL	5.0		ug/L	199840	1	12/01/2014 02:19	GC
Chloromethane	BRL	10		ug/L	199840	1	12/01/2014 02:19	GC
cis-1,2-Dichloroethene	62	5.0		ug/L	199840	1	12/01/2014 02:19	GC
cis-1,3-Dichloropropene	BRL	5.0		ug/L	199840	1	12/01/2014 02:19	GC
Cyclohexane	BRL	5.0		ug/L	199840	1	12/01/2014 02:19	GC
Dibromochloromethane	BRL	5.0		ug/L	199840	1	12/01/2014 02:19	GC
Dichlorodifluoromethane	BRL	10		ug/L	199840	1	12/01/2014 02:19	GC
Ethylbenzene	BRL	5.0		ug/L	199840	1	12/01/2014 02:19	GC
Freon-113	BRL	10		ug/L	199840	1	12/01/2014 02:19	GC
Isopropylbenzene	BRL	5.0		ug/L	199840	1	12/01/2014 02:19	GC
m,p-Xylene	BRL	5.0		ug/L	199840	1	12/01/2014 02:19	GC
Methyl acetate	BRL	5.0		ug/L	199840	1	12/01/2014 02:19	GC
Methyl tert-butyl ether	BRL	5.0		ug/L	199840	1	12/01/2014 02:19	GC

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: MW-5R (112414)
Project Name: Lafarge	Collection Date: 11/24/2014 1:30:00 PM
Lab ID: 1411K84-005	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5030B)			
Methylcyclohexane	BRL	5.0		ug/L	199840	1	12/01/2014 02:19	GC
Methylene chloride	BRL	5.0		ug/L	199840	1	12/01/2014 02:19	GC
o-Xylene	BRL	5.0		ug/L	199840	1	12/01/2014 02:19	GC
Styrene	BRL	5.0		ug/L	199840	1	12/01/2014 02:19	GC
Tetrachloroethene	BRL	5.0		ug/L	199840	1	12/01/2014 02:19	GC
Toluene	BRL	5.0		ug/L	199840	1	12/01/2014 02:19	GC
trans-1,2-Dichloroethene	BRL	5.0		ug/L	199840	1	12/01/2014 02:19	GC
trans-1,3-Dichloropropene	BRL	5.0		ug/L	199840	1	12/01/2014 02:19	GC
Trichloroethene	150	5.0		ug/L	199840	1	12/01/2014 02:19	GC
Trichlorofluoromethane	BRL	5.0		ug/L	199840	1	12/01/2014 02:19	GC
Vinyl chloride	BRL	2.0		ug/L	199840	1	12/01/2014 02:19	GC
Surr: 4-Bromofluorobenzene	77.7	70.6-123		%REC	199840	1	12/01/2014 02:19	GC
Surr: Dibromofluoromethane	103	78.7-124		%REC	199840	1	12/01/2014 02:19	GC
Surr: Toluene-d8	107	81.3-120		%REC	199840	1	12/01/2014 02:19	GC

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: MW-4 (112414)
Project Name: Lafarge	Collection Date: 11/24/2014 2:25:00 PM
Lab ID: 1411K84-006	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Metals by ICP E200.7		(E200.7)						
Lead	BRL	0.0100		mg/L	199808	1	11/28/2014 21:35	JL
TCL VOLATILE ORGANICS SW8260B		(SW5030B)						
1,1,1-Trichloroethane	BRL	5.0		ug/L	199840	1	12/01/2014 16:44	GC
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	199840	1	12/01/2014 16:44	GC
1,1,2-Trichloroethane	BRL	5.0		ug/L	199840	1	12/01/2014 16:44	GC
1,1-Dichloroethane	BRL	5.0		ug/L	199840	1	12/01/2014 16:44	GC
1,1-Dichloroethene	BRL	5.0		ug/L	199840	1	12/01/2014 16:44	GC
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	199840	1	12/01/2014 16:44	GC
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	199840	1	12/01/2014 16:44	GC
1,2-Dibromoethane	BRL	5.0		ug/L	199840	1	12/01/2014 16:44	GC
1,2-Dichlorobenzene	BRL	5.0		ug/L	199840	1	12/01/2014 16:44	GC
1,2-Dichloroethane	BRL	5.0		ug/L	199840	1	12/01/2014 16:44	GC
1,2-Dichloropropane	BRL	5.0		ug/L	199840	1	12/01/2014 16:44	GC
1,3-Dichlorobenzene	BRL	5.0		ug/L	199840	1	12/01/2014 16:44	GC
1,4-Dichlorobenzene	BRL	5.0		ug/L	199840	1	12/01/2014 16:44	GC
2-Butanone	BRL	50		ug/L	199840	1	12/01/2014 16:44	GC
2-Hexanone	BRL	10		ug/L	199840	1	12/01/2014 16:44	GC
4-Methyl-2-pentanone	BRL	10		ug/L	199840	1	12/01/2014 16:44	GC
Acetone	BRL	50		ug/L	199840	1	12/01/2014 16:44	GC
Benzene	BRL	5.0		ug/L	199840	1	12/01/2014 16:44	GC
Bromodichloromethane	BRL	5.0		ug/L	199840	1	12/01/2014 16:44	GC
Bromoform	BRL	5.0		ug/L	199840	1	12/01/2014 16:44	GC
Bromomethane	BRL	5.0		ug/L	199840	1	12/01/2014 16:44	GC
Carbon disulfide	BRL	5.0		ug/L	199840	1	12/01/2014 16:44	GC
Carbon tetrachloride	BRL	5.0		ug/L	199840	1	12/01/2014 16:44	GC
Chlorobenzene	BRL	5.0		ug/L	199840	1	12/01/2014 16:44	GC
Chloroethane	BRL	10		ug/L	199840	1	12/01/2014 16:44	GC
Chloroform	BRL	5.0		ug/L	199840	1	12/01/2014 16:44	GC
Chloromethane	BRL	10		ug/L	199840	1	12/01/2014 16:44	GC
cis-1,2-Dichloroethene	BRL	5.0		ug/L	199840	1	12/01/2014 16:44	GC
cis-1,3-Dichloropropene	BRL	5.0		ug/L	199840	1	12/01/2014 16:44	GC
Cyclohexane	BRL	5.0		ug/L	199840	1	12/01/2014 16:44	GC
Dibromochloromethane	BRL	5.0		ug/L	199840	1	12/01/2014 16:44	GC
Dichlorodifluoromethane	BRL	10		ug/L	199840	1	12/01/2014 16:44	GC
Ethylbenzene	BRL	5.0		ug/L	199840	1	12/01/2014 16:44	GC
Freon-113	BRL	10		ug/L	199840	1	12/01/2014 16:44	GC
Isopropylbenzene	BRL	5.0		ug/L	199840	1	12/01/2014 16:44	GC
m,p-Xylene	BRL	5.0		ug/L	199840	1	12/01/2014 16:44	GC
Methyl acetate	BRL	5.0		ug/L	199840	1	12/01/2014 16:44	GC
Methyl tert-butyl ether	BRL	5.0		ug/L	199840	1	12/01/2014 16:44	GC

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: TRIP BLANK
Project Name: Lafarge	Collection Date: 11/24/2014
Lab ID: 1411K84-007	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	199840	1	12/01/2014 16:16	GC
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	199840	1	12/01/2014 16:16	GC
1,1,2-Trichloroethane	BRL	5.0		ug/L	199840	1	12/01/2014 16:16	GC
1,1-Dichloroethane	BRL	5.0		ug/L	199840	1	12/01/2014 16:16	GC
1,1-Dichloroethene	BRL	5.0		ug/L	199840	1	12/01/2014 16:16	GC
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	199840	1	12/01/2014 16:16	GC
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	199840	1	12/01/2014 16:16	GC
1,2-Dibromoethane	BRL	5.0		ug/L	199840	1	12/01/2014 16:16	GC
1,2-Dichlorobenzene	BRL	5.0		ug/L	199840	1	12/01/2014 16:16	GC
1,2-Dichloroethane	BRL	5.0		ug/L	199840	1	12/01/2014 16:16	GC
1,2-Dichloropropane	BRL	5.0		ug/L	199840	1	12/01/2014 16:16	GC
1,3-Dichlorobenzene	BRL	5.0		ug/L	199840	1	12/01/2014 16:16	GC
1,4-Dichlorobenzene	BRL	5.0		ug/L	199840	1	12/01/2014 16:16	GC
2-Butanone	BRL	50		ug/L	199840	1	12/01/2014 16:16	GC
2-Hexanone	BRL	10		ug/L	199840	1	12/01/2014 16:16	GC
4-Methyl-2-pentanone	BRL	10		ug/L	199840	1	12/01/2014 16:16	GC
Acetone	BRL	50		ug/L	199840	1	12/01/2014 16:16	GC
Benzene	BRL	5.0		ug/L	199840	1	12/01/2014 16:16	GC
Bromodichloromethane	BRL	5.0		ug/L	199840	1	12/01/2014 16:16	GC
Bromoform	BRL	5.0		ug/L	199840	1	12/01/2014 16:16	GC
Bromomethane	BRL	5.0		ug/L	199840	1	12/01/2014 16:16	GC
Carbon disulfide	BRL	5.0		ug/L	199840	1	12/01/2014 16:16	GC
Carbon tetrachloride	BRL	5.0		ug/L	199840	1	12/01/2014 16:16	GC
Chlorobenzene	BRL	5.0		ug/L	199840	1	12/01/2014 16:16	GC
Chloroethane	BRL	10		ug/L	199840	1	12/01/2014 16:16	GC
Chloroform	BRL	5.0		ug/L	199840	1	12/01/2014 16:16	GC
Chloromethane	BRL	10		ug/L	199840	1	12/01/2014 16:16	GC
cis-1,2-Dichloroethene	BRL	5.0		ug/L	199840	1	12/01/2014 16:16	GC
cis-1,3-Dichloropropene	BRL	5.0		ug/L	199840	1	12/01/2014 16:16	GC
Cyclohexane	BRL	5.0		ug/L	199840	1	12/01/2014 16:16	GC
Dibromochloromethane	BRL	5.0		ug/L	199840	1	12/01/2014 16:16	GC
Dichlorodifluoromethane	BRL	10		ug/L	199840	1	12/01/2014 16:16	GC
Ethylbenzene	BRL	5.0		ug/L	199840	1	12/01/2014 16:16	GC
Freon-113	BRL	10		ug/L	199840	1	12/01/2014 16:16	GC
Isopropylbenzene	BRL	5.0		ug/L	199840	1	12/01/2014 16:16	GC
m,p-Xylene	BRL	5.0		ug/L	199840	1	12/01/2014 16:16	GC
Methyl acetate	BRL	5.0		ug/L	199840	1	12/01/2014 16:16	GC
Methyl tert-butyl ether	BRL	5.0		ug/L	199840	1	12/01/2014 16:16	GC
Methylcyclohexane	BRL	5.0		ug/L	199840	1	12/01/2014 16:16	GC
Methylene chloride	BRL	5.0		ug/L	199840	1	12/01/2014 16:16	GC
o-Xylene	BRL	5.0		ug/L	199840	1	12/01/2014 16:16	GC

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: TRIP BLANK
Project Name: Lafarge	Collection Date: 11/24/2014
Lab ID: 1411K84-007	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	199840	1	12/01/2014 16:16	GC
Tetrachloroethene	BRL	5.0		ug/L	199840	1	12/01/2014 16:16	GC
Toluene	BRL	5.0		ug/L	199840	1	12/01/2014 16:16	GC
trans-1,2-Dichloroethene	BRL	5.0		ug/L	199840	1	12/01/2014 16:16	GC
trans-1,3-Dichloropropene	BRL	5.0		ug/L	199840	1	12/01/2014 16:16	GC
Trichloroethene	BRL	5.0		ug/L	199840	1	12/01/2014 16:16	GC
Trichlorofluoromethane	BRL	5.0		ug/L	199840	1	12/01/2014 16:16	GC
Vinyl chloride	BRL	2.0		ug/L	199840	1	12/01/2014 16:16	GC
Surr: 4-Bromofluorobenzene	85.4	70.6-123		%REC	199840	1	12/01/2014 16:16	GC
Surr: Dibromofluoromethane	100	78.7-124		%REC	199840	1	12/01/2014 16:16	GC
Surr: Toluene-d8	106	81.3-120		%REC	199840	1	12/01/2014 16:16	GC

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Acadia - Atlanta

Work Order Number 1411K84

Checklist completed by Thomas Paewar Signature Date 11/24/14

Carrier name: FedEx UPS Courier Client US Mail Other

Shipping container/cooler in good condition? Yes No Not Present

Custody seals intact on shipping container/cooler? Yes No Not Present

Custody seals intact on sample bottles? Yes No Not Present

Container/Temp Blank temperature in compliance? (4°C±2)* Yes No

Cooler #1 3.1°C Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler #5 _____ Cooler #6 _____

Chain of custody present? Yes No

Chain of custody signed when relinquished and received? Yes No

Chain of custody agrees with sample labels? Yes No

Samples in proper container/bottle? Yes No

Sample containers intact? Yes No

Sufficient sample volume for indicated test? Yes No

All samples received within holding time? Yes No

Was TAT marked on the COC? Yes No

Proceed with Standard TAT as per project history? Yes No Not Applicable

Water - VOA vials have zero headspace? No VOA vials submitted Yes No

Water - pH acceptable upon receipt? Yes No Not Applicable

Adjusted? _____ Checked by JP

Sample Condition: Good Other(Explain) _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes No

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

Client: Arcadis
 Project Name: Lafarge
 Workorder: 1411K84

ANALYTICAL QC SUMMARY REPORT

BatchID: 199808

Sample ID: MB-199808	Client ID:	Units: mg/L	Prep Date: 11/28/2014	Run No: 281027							
SampleType: MBLK	TestCode: Total Metals by ICP E200.7	BatchID: 199808	Analysis Date: 11/28/2014	Seq No: 5946236							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Lead BRL 0.0100

Sample ID: LCS-199808	Client ID:	Units: mg/L	Prep Date: 11/28/2014	Run No: 281027							
SampleType: LCS	TestCode: Total Metals by ICP E200.7	BatchID: 199808	Analysis Date: 11/28/2014	Seq No: 5946237							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Lead 1.002 0.0100 1.000 100 85 115

Sample ID: 1411J79-001AMS	Client ID:	Units: mg/L	Prep Date: 11/28/2014	Run No: 281027							
SampleType: MS	TestCode: Total Metals by ICP E200.7	BatchID: 199808	Analysis Date: 11/28/2014	Seq No: 5946241							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Lead 0.9703 0.0100 1.000 0.0009308 96.9 70 130

Sample ID: 1411K86-001AMS	Client ID:	Units: mg/L	Prep Date: 11/28/2014	Run No: 281027							
SampleType: MS	TestCode: Total Metals by ICP E200.7	BatchID: 199808	Analysis Date: 11/28/2014	Seq No: 5946246							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Lead 0.9093 0.0100 1.000 90.9 70 130

Sample ID: 1411J79-001AMSD	Client ID:	Units: mg/L	Prep Date: 11/28/2014	Run No: 281027							
SampleType: MSD	TestCode: Total Metals by ICP E200.7	BatchID: 199808	Analysis Date: 11/28/2014	Seq No: 5946242							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Lead 0.9830 0.0100 1.000 0.0009308 98.2 70 130 0.9703 1.30 20

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Arcadis
 Project Name: Lafarge
 Workorder: 1411K84

ANALYTICAL QC SUMMARY REPORT

BatchID: 199840

Sample ID: MB-199840	Client ID:	Units: ug/L	Prep Date: 11/26/2014	Run No: 280841							
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 199840	Analysis Date: 11/27/2014	Seq No: 5943959							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
2-Butanone	BRL	50									
2-Hexanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	50									
Benzene	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon disulfide	BRL	5.0									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									
Chloroform	BRL	5.0									
Chloromethane	BRL	10									

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
 Project Name: Lafarge
 Workorder: 1411K84

ANALYTICAL QC SUMMARY REPORT

BatchID: 199840

Sample ID: MB-199840	Client ID:	Units: ug/L	Prep Date: 11/26/2014	Run No: 280841							
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 199840	Analysis Date: 11/27/2014	Seq No: 5943959							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	5.0									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	2.0									
Surr: 4-Bromofluorobenzene	40.69	0	50.00		81.4	70.6	123				
Surr: Dibromofluoromethane	48.89	0	50.00		97.8	78.7	124				
Surr: Toluene-d8	52.82	0	50.00		106	81.3	120				

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
 Project Name: Lafarge
 Workorder: 1411K84

ANALYTICAL QC SUMMARY REPORT

BatchID: 199840

Sample ID: LCS-199840	Client ID:	Units: ug/L	Prep Date: 11/26/2014	Run No: 280841							
SampleType: LCS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 199840	Analysis Date: 11/26/2014	Seq No: 5942193							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	16.41	5.0	20.00		82.0	64.2	137				
Benzene	16.63	5.0	20.00		83.2	72.8	128				
Chlorobenzene	17.66	5.0	20.00		88.3	72.3	126				
Toluene	16.15	5.0	20.00		80.8	74.9	127				
Trichloroethene	17.22	5.0	20.00		86.1	70.5	134				
Surr: 4-Bromofluorobenzene	44.84	0	50.00		89.7	70.6	123				
Surr: Dibromofluoromethane	47.08	0	50.00		94.2	78.7	124				
Surr: Toluene-d8	49.67	0	50.00		99.3	81.3	120				

Sample ID: 1411I56-025AMS	Client ID:	Units: ug/L	Prep Date: 11/26/2014	Run No: 280956							
SampleType: MS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 199840	Analysis Date: 11/28/2014	Seq No: 5944611							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	61.58	5.0	50.00		123	60.2	159				
Benzene	51.08	5.0	50.00	3.010	96.1	70.2	138				
Chlorobenzene	46.03	5.0	50.00	5.490	81.1	70.1	133				
Toluene	46.57	5.0	50.00	5.270	82.6	70	139				
Trichloroethene	50.39	5.0	50.00	3.240	94.3	70.1	144				
Surr: 4-Bromofluorobenzene	40.37	0	50.00		80.7	70.6	123				
Surr: Dibromofluoromethane	49.02	0	50.00		98.0	78.7	124				
Surr: Toluene-d8	51.40	0	50.00		103	81.3	120				

Sample ID: 1411I56-025AMSD	Client ID:	Units: ug/L	Prep Date: 11/26/2014	Run No: 280956							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 199840	Analysis Date: 11/28/2014	Seq No: 5944612							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	65.29	5.0	50.00		131	60.2	159	61.58	5.85	19.2	
Benzene	53.69	5.0	50.00	3.010	101	70.2	138	51.08	4.98	20	

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Arcadis
 Project Name: Lafarge
 Workorder: 1411K84

ANALYTICAL QC SUMMARY REPORT

BatchID: 199840

Sample ID: 1411I56-025AMSD	Client ID:	Units: ug/L	Prep Date: 11/26/2014	Run No: 280956
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 199840	Analysis Date: 11/28/2014	Seq No: 5944612

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	50.80	5.0	50.00	5.490	90.6	70.1	133	46.03	9.85	20	
Toluene	49.66	5.0	50.00	5.270	88.8	70	139	46.57	6.42	20	
Trichloroethene	52.55	5.0	50.00	3.240	98.6	70.1	144	50.39	4.20	20	
Surr: 4-Bromofluorobenzene	40.96	0	50.00		81.9	70.6	123	40.37	0	0	
Surr: Dibromofluoromethane	48.45	0	50.00		96.9	78.7	124	49.02	0	0	
Surr: Toluene-d8	51.38	0	50.00		103	81.3	120	51.40	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		



December 03, 2014

Greg Sitomer
Arcadis
1000 Cobb Place Blvd., Bldg. 500-A
Kennesaw GA 30144

TEL: (770) 431-8666
FAX: (770) 435-2666

RE: Lafarge

Dear Greg Sitomer:

Order No: 1411L55

Analytical Environmental Services, Inc. received 12 samples on November 25, 2014 1:46 pm for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/14-06/30/15.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/15.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Chantelle Kanhai
Project Manager

Client: Arcadis
Project: Lafarge
Lab ID: 1411L55

Case Narrative

Volatiles Organic Compounds Analysis by Method 8260B:

Due to sample matrix, samples 1411L55-001, -005 and -010 required dilution during preparation and/or analysis resulting in elevated reporting limits.

Client: Arcadis	Client Sample ID: MW-7 (112514)
Project Name: Lafarge	Collection Date: 11/25/2014 11:20:00 AM
Lab ID: 1411L55-001	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5030B)			
1,1,1-Trichloroethane	BRL	500		ug/L	199947	100	12/02/2014 20:32	GK
1,1,2,2-Tetrachloroethane	BRL	500		ug/L	199947	100	12/02/2014 20:32	GK
1,1,2-Trichloroethane	BRL	500		ug/L	199947	100	12/02/2014 20:32	GK
1,1-Dichloroethane	BRL	500		ug/L	199947	100	12/02/2014 20:32	GK
1,1-Dichloroethene	BRL	500		ug/L	199947	100	12/02/2014 20:32	GK
1,2,4-Trichlorobenzene	BRL	500		ug/L	199947	100	12/02/2014 20:32	GK
1,2-Dibromo-3-chloropropane	BRL	500		ug/L	199947	100	12/02/2014 20:32	GK
1,2-Dibromoethane	BRL	500		ug/L	199947	100	12/02/2014 20:32	GK
1,2-Dichlorobenzene	BRL	500		ug/L	199947	100	12/02/2014 20:32	GK
1,2-Dichloroethane	BRL	500		ug/L	199947	100	12/02/2014 20:32	GK
1,2-Dichloropropane	BRL	500		ug/L	199947	100	12/02/2014 20:32	GK
1,3-Dichlorobenzene	BRL	500		ug/L	199947	100	12/02/2014 20:32	GK
1,4-Dichlorobenzene	BRL	500		ug/L	199947	100	12/02/2014 20:32	GK
2-Butanone	BRL	5000		ug/L	199947	100	12/02/2014 20:32	GK
2-Hexanone	BRL	1000		ug/L	199947	100	12/02/2014 20:32	GK
4-Methyl-2-pentanone	BRL	1000		ug/L	199947	100	12/02/2014 20:32	GK
Acetone	BRL	5000		ug/L	199947	100	12/02/2014 20:32	GK
Benzene	BRL	500		ug/L	199947	100	12/02/2014 20:32	GK
Bromodichloromethane	BRL	500		ug/L	199947	100	12/02/2014 20:32	GK
Bromoform	BRL	500		ug/L	199947	100	12/02/2014 20:32	GK
Bromomethane	BRL	500		ug/L	199947	100	12/02/2014 20:32	GK
Carbon disulfide	BRL	500		ug/L	199947	100	12/02/2014 20:32	GK
Carbon tetrachloride	BRL	500		ug/L	199947	100	12/02/2014 20:32	GK
Chlorobenzene	BRL	500		ug/L	199947	100	12/02/2014 20:32	GK
Chloroethane	BRL	1000		ug/L	199947	100	12/02/2014 20:32	GK
Chloroform	BRL	500		ug/L	199947	100	12/02/2014 20:32	GK
Chloromethane	BRL	1000		ug/L	199947	100	12/02/2014 20:32	GK
cis-1,2-Dichloroethene	15000	500		ug/L	199947	100	12/02/2014 20:32	GK
cis-1,3-Dichloropropene	BRL	500		ug/L	199947	100	12/02/2014 20:32	GK
Cyclohexane	BRL	500		ug/L	199947	100	12/02/2014 20:32	GK
Dibromochloromethane	BRL	500		ug/L	199947	100	12/02/2014 20:32	GK
Dichlorodifluoromethane	BRL	1000		ug/L	199947	100	12/02/2014 20:32	GK
Ethylbenzene	BRL	500		ug/L	199947	100	12/02/2014 20:32	GK
Freon-113	BRL	1000		ug/L	199947	100	12/02/2014 20:32	GK
Isopropylbenzene	BRL	500		ug/L	199947	100	12/02/2014 20:32	GK
m,p-Xylene	BRL	500		ug/L	199947	100	12/02/2014 20:32	GK
Methyl acetate	BRL	500		ug/L	199947	100	12/02/2014 20:32	GK
Methyl tert-butyl ether	BRL	500		ug/L	199947	100	12/02/2014 20:32	GK
Methylcyclohexane	BRL	500		ug/L	199947	100	12/02/2014 20:32	GK
Methylene chloride	BRL	500		ug/L	199947	100	12/02/2014 20:32	GK
o-Xylene	BRL	500		ug/L	199947	100	12/02/2014 20:32	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: MW-7 (112514)
Project Name: Lafarge	Collection Date: 11/25/2014 11:20:00 AM
Lab ID: 1411L55-001	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	500		ug/L	199947	100	12/02/2014 20:32	GK
Tetrachloroethene	BRL	500		ug/L	199947	100	12/02/2014 20:32	GK
Toluene	BRL	500		ug/L	199947	100	12/02/2014 20:32	GK
trans-1,2-Dichloroethene	BRL	500		ug/L	199947	100	12/02/2014 20:32	GK
trans-1,3-Dichloropropene	BRL	500		ug/L	199947	100	12/02/2014 20:32	GK
Trichloroethene	18000	500		ug/L	199947	100	12/02/2014 20:32	GK
Trichlorofluoromethane	BRL	500		ug/L	199947	100	12/02/2014 20:32	GK
Vinyl chloride	BRL	200		ug/L	199947	100	12/02/2014 20:32	GK
Surr: 4-Bromofluorobenzene	90.2	70.6-123		%REC	199947	100	12/02/2014 20:32	GK
Surr: Dibromofluoromethane	93.7	78.7-124		%REC	199947	100	12/02/2014 20:32	GK
Surr: Toluene-d8	95.2	81.3-120		%REC	199947	100	12/02/2014 20:32	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: MW-8 (112514)
Project Name: Lafarge	Collection Date: 11/25/2014 10:15:00 AM
Lab ID: 1411L55-002	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	199947	1	12/02/2014 21:02	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	199947	1	12/02/2014 21:02	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	199947	1	12/02/2014 21:02	GK
1,1-Dichloroethane	BRL	5.0		ug/L	199947	1	12/02/2014 21:02	GK
1,1-Dichloroethene	BRL	5.0		ug/L	199947	1	12/02/2014 21:02	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	199947	1	12/02/2014 21:02	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	199947	1	12/02/2014 21:02	GK
1,2-Dibromoethane	BRL	5.0		ug/L	199947	1	12/02/2014 21:02	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	199947	1	12/02/2014 21:02	GK
1,2-Dichloroethane	BRL	5.0		ug/L	199947	1	12/02/2014 21:02	GK
1,2-Dichloropropane	BRL	5.0		ug/L	199947	1	12/02/2014 21:02	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	199947	1	12/02/2014 21:02	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	199947	1	12/02/2014 21:02	GK
2-Butanone	BRL	50		ug/L	199947	1	12/02/2014 21:02	GK
2-Hexanone	BRL	10		ug/L	199947	1	12/02/2014 21:02	GK
4-Methyl-2-pentanone	BRL	10		ug/L	199947	1	12/02/2014 21:02	GK
Acetone	BRL	50		ug/L	199947	1	12/02/2014 21:02	GK
Benzene	BRL	5.0		ug/L	199947	1	12/02/2014 21:02	GK
Bromodichloromethane	BRL	5.0		ug/L	199947	1	12/02/2014 21:02	GK
Bromoform	BRL	5.0		ug/L	199947	1	12/02/2014 21:02	GK
Bromomethane	BRL	5.0		ug/L	199947	1	12/02/2014 21:02	GK
Carbon disulfide	BRL	5.0		ug/L	199947	1	12/02/2014 21:02	GK
Carbon tetrachloride	BRL	5.0		ug/L	199947	1	12/02/2014 21:02	GK
Chlorobenzene	BRL	5.0		ug/L	199947	1	12/02/2014 21:02	GK
Chloroethane	BRL	10		ug/L	199947	1	12/02/2014 21:02	GK
Chloroform	BRL	5.0		ug/L	199947	1	12/02/2014 21:02	GK
Chloromethane	BRL	10		ug/L	199947	1	12/02/2014 21:02	GK
cis-1,2-Dichloroethene	17	5.0		ug/L	199947	1	12/02/2014 21:02	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	199947	1	12/02/2014 21:02	GK
Cyclohexane	BRL	5.0		ug/L	199947	1	12/02/2014 21:02	GK
Dibromochloromethane	BRL	5.0		ug/L	199947	1	12/02/2014 21:02	GK
Dichlorodifluoromethane	BRL	10		ug/L	199947	1	12/02/2014 21:02	GK
Ethylbenzene	BRL	5.0		ug/L	199947	1	12/02/2014 21:02	GK
Freon-113	BRL	10		ug/L	199947	1	12/02/2014 21:02	GK
Isopropylbenzene	BRL	5.0		ug/L	199947	1	12/02/2014 21:02	GK
m,p-Xylene	BRL	5.0		ug/L	199947	1	12/02/2014 21:02	GK
Methyl acetate	BRL	5.0		ug/L	199947	1	12/02/2014 21:02	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	199947	1	12/02/2014 21:02	GK
Methylcyclohexane	BRL	5.0		ug/L	199947	1	12/02/2014 21:02	GK
Methylene chloride	BRL	5.0		ug/L	199947	1	12/02/2014 21:02	GK
o-Xylene	BRL	5.0		ug/L	199947	1	12/02/2014 21:02	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: MW-8 (112514)
Project Name: Lafarge	Collection Date: 11/25/2014 10:15:00 AM
Lab ID: 1411L55-002	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B			(SW5030B)					
Styrene	BRL	5.0		ug/L	199947	1	12/02/2014 21:02	GK
Tetrachloroethene	BRL	5.0		ug/L	199947	1	12/02/2014 21:02	GK
Toluene	BRL	5.0		ug/L	199947	1	12/02/2014 21:02	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	199947	1	12/02/2014 21:02	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	199947	1	12/02/2014 21:02	GK
Trichloroethene	BRL	5.0		ug/L	199947	1	12/02/2014 21:02	GK
Trichlorofluoromethane	BRL	5.0		ug/L	199947	1	12/02/2014 21:02	GK
Vinyl chloride	2.9	2.0		ug/L	199947	1	12/02/2014 21:02	GK
Surr: 4-Bromofluorobenzene	89.1	70.6-123		%REC	199947	1	12/02/2014 21:02	GK
Surr: Dibromofluoromethane	95.7	78.7-124		%REC	199947	1	12/02/2014 21:02	GK
Surr: Toluene-d8	95.8	81.3-120		%REC	199947	1	12/02/2014 21:02	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: MW-21 (112514)
Project Name: Lafarge	Collection Date: 11/25/2014 9:00:00 AM
Lab ID: 1411L55-003	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	199947	1	12/02/2014 18:00	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	199947	1	12/02/2014 18:00	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	199947	1	12/02/2014 18:00	GK
1,1-Dichloroethane	BRL	5.0		ug/L	199947	1	12/02/2014 18:00	GK
1,1-Dichloroethene	9.1	5.0		ug/L	199947	1	12/02/2014 18:00	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	199947	1	12/02/2014 18:00	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	199947	1	12/02/2014 18:00	GK
1,2-Dibromoethane	BRL	5.0		ug/L	199947	1	12/02/2014 18:00	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	199947	1	12/02/2014 18:00	GK
1,2-Dichloroethane	BRL	5.0		ug/L	199947	1	12/02/2014 18:00	GK
1,2-Dichloropropane	BRL	5.0		ug/L	199947	1	12/02/2014 18:00	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	199947	1	12/02/2014 18:00	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	199947	1	12/02/2014 18:00	GK
2-Butanone	BRL	50		ug/L	199947	1	12/02/2014 18:00	GK
2-Hexanone	BRL	10		ug/L	199947	1	12/02/2014 18:00	GK
4-Methyl-2-pentanone	BRL	10		ug/L	199947	1	12/02/2014 18:00	GK
Acetone	BRL	50		ug/L	199947	1	12/02/2014 18:00	GK
Benzene	38	5.0		ug/L	199947	1	12/02/2014 18:00	GK
Bromodichloromethane	BRL	5.0		ug/L	199947	1	12/02/2014 18:00	GK
Bromoform	BRL	5.0		ug/L	199947	1	12/02/2014 18:00	GK
Bromomethane	BRL	5.0		ug/L	199947	1	12/02/2014 18:00	GK
Carbon disulfide	BRL	5.0		ug/L	199947	1	12/02/2014 18:00	GK
Carbon tetrachloride	BRL	5.0		ug/L	199947	1	12/02/2014 18:00	GK
Chlorobenzene	BRL	5.0		ug/L	199947	1	12/02/2014 18:00	GK
Chloroethane	BRL	10		ug/L	199947	1	12/02/2014 18:00	GK
Chloroform	BRL	5.0		ug/L	199947	1	12/02/2014 18:00	GK
Chloromethane	BRL	10		ug/L	199947	1	12/02/2014 18:00	GK
cis-1,2-Dichloroethene	7800	500		ug/L	199947	100	12/02/2014 11:56	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	199947	1	12/02/2014 18:00	GK
Cyclohexane	120	5.0		ug/L	199947	1	12/02/2014 18:00	GK
Dibromochloromethane	BRL	5.0		ug/L	199947	1	12/02/2014 18:00	GK
Dichlorodifluoromethane	BRL	10		ug/L	199947	1	12/02/2014 18:00	GK
Ethylbenzene	BRL	5.0		ug/L	199947	1	12/02/2014 18:00	GK
Freon-113	BRL	10		ug/L	199947	1	12/02/2014 18:00	GK
Isopropylbenzene	BRL	5.0		ug/L	199947	1	12/02/2014 18:00	GK
m,p-Xylene	BRL	5.0		ug/L	199947	1	12/02/2014 18:00	GK
Methyl acetate	BRL	5.0		ug/L	199947	1	12/02/2014 18:00	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	199947	1	12/02/2014 18:00	GK
Methylcyclohexane	260	200		ug/L	199947	100	12/02/2014 11:56	GK
Methylene chloride	BRL	5.0		ug/L	199947	1	12/02/2014 18:00	GK
o-Xylene	BRL	5.0		ug/L	199947	1	12/02/2014 18:00	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: MW-21 (112514)
Project Name: Lafarge	Collection Date: 11/25/2014 9:00:00 AM
Lab ID: 1411L55-003	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B			(SW5030B)					
Styrene	BRL	5.0		ug/L	199947	1	12/02/2014 18:00	GK
Tetrachloroethene	BRL	5.0		ug/L	199947	1	12/02/2014 18:00	GK
Toluene	6.5	5.0		ug/L	199947	1	12/02/2014 18:00	GK
trans-1,2-Dichloroethene	9.2	5.0		ug/L	199947	1	12/02/2014 18:00	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	199947	1	12/02/2014 18:00	GK
Trichloroethene	BRL	5.0		ug/L	199947	1	12/02/2014 18:00	GK
Trichlorofluoromethane	BRL	5.0		ug/L	199947	1	12/02/2014 18:00	GK
Vinyl chloride	260	200		ug/L	199947	100	12/02/2014 11:56	GK
Surr: 4-Bromofluorobenzene	88.5	70.6-123		%REC	199947	100	12/02/2014 11:56	GK
Surr: 4-Bromofluorobenzene	92.5	70.6-123		%REC	199947	1	12/02/2014 18:00	GK
Surr: Dibromofluoromethane	93.7	78.7-124		%REC	199947	100	12/02/2014 11:56	GK
Surr: Dibromofluoromethane	96.7	78.7-124		%REC	199947	1	12/02/2014 18:00	GK
Surr: Toluene-d8	96	81.3-120		%REC	199947	1	12/02/2014 18:00	GK
Surr: Toluene-d8	96.1	81.3-120		%REC	199947	100	12/02/2014 11:56	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: MW-34 (112414)
Project Name: Lafarge	Collection Date: 11/24/2014 4:05:00 PM
Lab ID: 1411L55-004	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	199947	1	12/02/2014 17:29	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	199947	1	12/02/2014 17:29	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	199947	1	12/02/2014 17:29	GK
1,1-Dichloroethane	BRL	5.0		ug/L	199947	1	12/02/2014 17:29	GK
1,1-Dichloroethene	BRL	5.0		ug/L	199947	1	12/02/2014 17:29	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	199947	1	12/02/2014 17:29	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	199947	1	12/02/2014 17:29	GK
1,2-Dibromoethane	BRL	5.0		ug/L	199947	1	12/02/2014 17:29	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	199947	1	12/02/2014 17:29	GK
1,2-Dichloroethane	BRL	5.0		ug/L	199947	1	12/02/2014 17:29	GK
1,2-Dichloropropane	BRL	5.0		ug/L	199947	1	12/02/2014 17:29	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	199947	1	12/02/2014 17:29	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	199947	1	12/02/2014 17:29	GK
2-Butanone	BRL	50		ug/L	199947	1	12/02/2014 17:29	GK
2-Hexanone	BRL	10		ug/L	199947	1	12/02/2014 17:29	GK
4-Methyl-2-pentanone	BRL	10		ug/L	199947	1	12/02/2014 17:29	GK
Acetone	BRL	50		ug/L	199947	1	12/02/2014 17:29	GK
Benzene	BRL	5.0		ug/L	199947	1	12/02/2014 17:29	GK
Bromodichloromethane	BRL	5.0		ug/L	199947	1	12/02/2014 17:29	GK
Bromoform	BRL	5.0		ug/L	199947	1	12/02/2014 17:29	GK
Bromomethane	BRL	5.0		ug/L	199947	1	12/02/2014 17:29	GK
Carbon disulfide	BRL	5.0		ug/L	199947	1	12/02/2014 17:29	GK
Carbon tetrachloride	BRL	5.0		ug/L	199947	1	12/02/2014 17:29	GK
Chlorobenzene	BRL	5.0		ug/L	199947	1	12/02/2014 17:29	GK
Chloroethane	BRL	10		ug/L	199947	1	12/02/2014 17:29	GK
Chloroform	BRL	5.0		ug/L	199947	1	12/02/2014 17:29	GK
Chloromethane	BRL	10		ug/L	199947	1	12/02/2014 17:29	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	199947	1	12/02/2014 17:29	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	199947	1	12/02/2014 17:29	GK
Cyclohexane	BRL	5.0		ug/L	199947	1	12/02/2014 17:29	GK
Dibromochloromethane	BRL	5.0		ug/L	199947	1	12/02/2014 17:29	GK
Dichlorodifluoromethane	BRL	10		ug/L	199947	1	12/02/2014 17:29	GK
Ethylbenzene	BRL	5.0		ug/L	199947	1	12/02/2014 17:29	GK
Freon-113	BRL	10		ug/L	199947	1	12/02/2014 17:29	GK
Isopropylbenzene	BRL	5.0		ug/L	199947	1	12/02/2014 17:29	GK
m,p-Xylene	BRL	5.0		ug/L	199947	1	12/02/2014 17:29	GK
Methyl acetate	BRL	5.0		ug/L	199947	1	12/02/2014 17:29	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	199947	1	12/02/2014 17:29	GK
Methylcyclohexane	BRL	5.0		ug/L	199947	1	12/02/2014 17:29	GK
Methylene chloride	BRL	5.0		ug/L	199947	1	12/02/2014 17:29	GK
o-Xylene	BRL	5.0		ug/L	199947	1	12/02/2014 17:29	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: MW-34 (112414)
Project Name: Lafarge	Collection Date: 11/24/2014 4:05:00 PM
Lab ID: 1411L55-004	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	199947	1	12/02/2014 17:29	GK
Tetrachloroethene	BRL	5.0		ug/L	199947	1	12/02/2014 17:29	GK
Toluene	BRL	5.0		ug/L	199947	1	12/02/2014 17:29	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	199947	1	12/02/2014 17:29	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	199947	1	12/02/2014 17:29	GK
Trichloroethene	400	50		ug/L	199947	10	12/02/2014 15:28	GK
Trichlorofluoromethane	BRL	5.0		ug/L	199947	1	12/02/2014 17:29	GK
Vinyl chloride	BRL	2.0		ug/L	199947	1	12/02/2014 17:29	GK
Surr: 4-Bromofluorobenzene	88.3	70.6-123		%REC	199947	1	12/02/2014 17:29	GK
Surr: 4-Bromofluorobenzene	89.6	70.6-123		%REC	199947	10	12/02/2014 15:28	GK
Surr: Dibromofluoromethane	91.8	78.7-124		%REC	199947	10	12/02/2014 15:28	GK
Surr: Dibromofluoromethane	96.1	78.7-124		%REC	199947	1	12/02/2014 17:29	GK
Surr: Toluene-d8	94.8	81.3-120		%REC	199947	10	12/02/2014 15:28	GK
Surr: Toluene-d8	96.3	81.3-120		%REC	199947	1	12/02/2014 17:29	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 3-Dec-14

Client: Arcadis	Client Sample ID: MW-35 (112414)
Project Name: Lafarge	Collection Date: 11/24/2014 3:15:00 PM
Lab ID: 1411L55-005	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	500		ug/L	199947	100	12/02/2014 12:26	GK
1,1,2,2-Tetrachloroethane	BRL	500		ug/L	199947	100	12/02/2014 12:26	GK
1,1,2-Trichloroethane	BRL	500		ug/L	199947	100	12/02/2014 12:26	GK
1,1-Dichloroethane	BRL	500		ug/L	199947	100	12/02/2014 12:26	GK
1,1-Dichloroethene	BRL	500		ug/L	199947	100	12/02/2014 12:26	GK
1,2,4-Trichlorobenzene	BRL	500		ug/L	199947	100	12/02/2014 12:26	GK
1,2-Dibromo-3-chloropropane	BRL	500		ug/L	199947	100	12/02/2014 12:26	GK
1,2-Dibromoethane	BRL	500		ug/L	199947	100	12/02/2014 12:26	GK
1,2-Dichlorobenzene	BRL	500		ug/L	199947	100	12/02/2014 12:26	GK
1,2-Dichloroethane	BRL	500		ug/L	199947	100	12/02/2014 12:26	GK
1,2-Dichloropropane	BRL	500		ug/L	199947	100	12/02/2014 12:26	GK
1,3-Dichlorobenzene	BRL	500		ug/L	199947	100	12/02/2014 12:26	GK
1,4-Dichlorobenzene	BRL	500		ug/L	199947	100	12/02/2014 12:26	GK
2-Butanone	BRL	5000		ug/L	199947	100	12/02/2014 12:26	GK
2-Hexanone	BRL	1000		ug/L	199947	100	12/02/2014 12:26	GK
4-Methyl-2-pentanone	BRL	1000		ug/L	199947	100	12/02/2014 12:26	GK
Acetone	BRL	5000		ug/L	199947	100	12/02/2014 12:26	GK
Benzene	BRL	500		ug/L	199947	100	12/02/2014 12:26	GK
Bromodichloromethane	BRL	500		ug/L	199947	100	12/02/2014 12:26	GK
Bromoform	BRL	500		ug/L	199947	100	12/02/2014 12:26	GK
Bromomethane	BRL	500		ug/L	199947	100	12/02/2014 12:26	GK
Carbon disulfide	BRL	500		ug/L	199947	100	12/02/2014 12:26	GK
Carbon tetrachloride	BRL	500		ug/L	199947	100	12/02/2014 12:26	GK
Chlorobenzene	BRL	500		ug/L	199947	100	12/02/2014 12:26	GK
Chloroethane	BRL	1000		ug/L	199947	100	12/02/2014 12:26	GK
Chloroform	BRL	500		ug/L	199947	100	12/02/2014 12:26	GK
Chloromethane	BRL	1000		ug/L	199947	100	12/02/2014 12:26	GK
cis-1,2-Dichloroethene	BRL	500		ug/L	199947	100	12/02/2014 12:26	GK
cis-1,3-Dichloropropene	BRL	500		ug/L	199947	100	12/02/2014 12:26	GK
Cyclohexane	BRL	500		ug/L	199947	100	12/02/2014 12:26	GK
Dibromochloromethane	BRL	500		ug/L	199947	100	12/02/2014 12:26	GK
Dichlorodifluoromethane	BRL	1000		ug/L	199947	100	12/02/2014 12:26	GK
Ethylbenzene	BRL	500		ug/L	199947	100	12/02/2014 12:26	GK
Freon-113	BRL	1000		ug/L	199947	100	12/02/2014 12:26	GK
Isopropylbenzene	BRL	500		ug/L	199947	100	12/02/2014 12:26	GK
m,p-Xylene	BRL	500		ug/L	199947	100	12/02/2014 12:26	GK
Methyl acetate	BRL	500		ug/L	199947	100	12/02/2014 12:26	GK
Methyl tert-butyl ether	BRL	500		ug/L	199947	100	12/02/2014 12:26	GK
Methylcyclohexane	BRL	500		ug/L	199947	100	12/02/2014 12:26	GK
Methylene chloride	BRL	500		ug/L	199947	100	12/02/2014 12:26	GK
o-Xylene	BRL	500		ug/L	199947	100	12/02/2014 12:26	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: MW-35 (112414)
Project Name: Lafarge	Collection Date: 11/24/2014 3:15:00 PM
Lab ID: 1411L55-005	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	500		ug/L	199947	100	12/02/2014 12:26	GK
Tetrachloroethene	BRL	500		ug/L	199947	100	12/02/2014 12:26	GK
Toluene	BRL	500		ug/L	199947	100	12/02/2014 12:26	GK
trans-1,2-Dichloroethene	BRL	500		ug/L	199947	100	12/02/2014 12:26	GK
trans-1,3-Dichloropropene	BRL	500		ug/L	199947	100	12/02/2014 12:26	GK
Trichloroethene	69000	2500		ug/L	199947	500	12/02/2014 20:01	GK
Trichlorofluoromethane	BRL	500		ug/L	199947	100	12/02/2014 12:26	GK
Vinyl chloride	BRL	200		ug/L	199947	100	12/02/2014 12:26	GK
Surr: 4-Bromofluorobenzene	91.2	70.6-123		%REC	199947	500	12/02/2014 20:01	GK
Surr: 4-Bromofluorobenzene	89.7	70.6-123		%REC	199947	100	12/02/2014 12:26	GK
Surr: Dibromofluoromethane	95.1	78.7-124		%REC	199947	500	12/02/2014 20:01	GK
Surr: Dibromofluoromethane	94.7	78.7-124		%REC	199947	100	12/02/2014 12:26	GK
Surr: Toluene-d8	96.3	81.3-120		%REC	199947	500	12/02/2014 20:01	GK
Surr: Toluene-d8	96.5	81.3-120		%REC	199947	100	12/02/2014 12:26	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: MW-33 (112414)
Project Name: Lafarge	Collection Date: 11/24/2014 4:50:00 PM
Lab ID: 1411L55-006	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	199947	1	12/02/2014 19:31	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	199947	1	12/02/2014 19:31	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	199947	1	12/02/2014 19:31	GK
1,1-Dichloroethane	BRL	5.0		ug/L	199947	1	12/02/2014 19:31	GK
1,1-Dichloroethene	BRL	5.0		ug/L	199947	1	12/02/2014 19:31	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	199947	1	12/02/2014 19:31	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	199947	1	12/02/2014 19:31	GK
1,2-Dibromoethane	BRL	5.0		ug/L	199947	1	12/02/2014 19:31	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	199947	1	12/02/2014 19:31	GK
1,2-Dichloroethane	BRL	5.0		ug/L	199947	1	12/02/2014 19:31	GK
1,2-Dichloropropane	BRL	5.0		ug/L	199947	1	12/02/2014 19:31	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	199947	1	12/02/2014 19:31	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	199947	1	12/02/2014 19:31	GK
2-Butanone	BRL	50		ug/L	199947	1	12/02/2014 19:31	GK
2-Hexanone	BRL	10		ug/L	199947	1	12/02/2014 19:31	GK
4-Methyl-2-pentanone	BRL	10		ug/L	199947	1	12/02/2014 19:31	GK
Acetone	BRL	50		ug/L	199947	1	12/02/2014 19:31	GK
Benzene	7.7	5.0		ug/L	199947	1	12/02/2014 19:31	GK
Bromodichloromethane	BRL	5.0		ug/L	199947	1	12/02/2014 19:31	GK
Bromoform	BRL	5.0		ug/L	199947	1	12/02/2014 19:31	GK
Bromomethane	BRL	5.0		ug/L	199947	1	12/02/2014 19:31	GK
Carbon disulfide	BRL	5.0		ug/L	199947	1	12/02/2014 19:31	GK
Carbon tetrachloride	BRL	5.0		ug/L	199947	1	12/02/2014 19:31	GK
Chlorobenzene	BRL	5.0		ug/L	199947	1	12/02/2014 19:31	GK
Chloroethane	BRL	10		ug/L	199947	1	12/02/2014 19:31	GK
Chloroform	BRL	5.0		ug/L	199947	1	12/02/2014 19:31	GK
Chloromethane	BRL	10		ug/L	199947	1	12/02/2014 19:31	GK
cis-1,2-Dichloroethene	660	250		ug/L	199947	50	12/02/2014 14:57	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	199947	1	12/02/2014 19:31	GK
Cyclohexane	81	5.0		ug/L	199947	1	12/02/2014 19:31	GK
Dibromochloromethane	BRL	5.0		ug/L	199947	1	12/02/2014 19:31	GK
Dichlorodifluoromethane	BRL	10		ug/L	199947	1	12/02/2014 19:31	GK
Ethylbenzene	420	250		ug/L	199947	50	12/02/2014 14:57	GK
Freon-113	BRL	10		ug/L	199947	1	12/02/2014 19:31	GK
Isopropylbenzene	8.8	5.0		ug/L	199947	1	12/02/2014 19:31	GK
m,p-Xylene	920	250		ug/L	199947	50	12/02/2014 14:57	GK
Methyl acetate	BRL	5.0		ug/L	199947	1	12/02/2014 19:31	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	199947	1	12/02/2014 19:31	GK
Methylcyclohexane	94	5.0		ug/L	199947	1	12/02/2014 19:31	GK
Methylene chloride	BRL	5.0		ug/L	199947	1	12/02/2014 19:31	GK
o-Xylene	380	250		ug/L	199947	50	12/02/2014 14:57	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: MW-33 (112414)
Project Name: Lafarge	Collection Date: 11/24/2014 4:50:00 PM
Lab ID: 1411L55-006	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	199947	1	12/02/2014 19:31	GK
Tetrachloroethene	BRL	5.0		ug/L	199947	1	12/02/2014 19:31	GK
Toluene	2000	250		ug/L	199947	50	12/02/2014 14:57	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	199947	1	12/02/2014 19:31	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	199947	1	12/02/2014 19:31	GK
Trichloroethene	BRL	5.0		ug/L	199947	1	12/02/2014 19:31	GK
Trichlorofluoromethane	BRL	5.0		ug/L	199947	1	12/02/2014 19:31	GK
Vinyl chloride	90	2.0		ug/L	199947	1	12/02/2014 19:31	GK
Surr: 4-Bromofluorobenzene	91.5	70.6-123		%REC	199947	50	12/02/2014 14:57	GK
Surr: 4-Bromofluorobenzene	96.3	70.6-123		%REC	199947	1	12/02/2014 19:31	GK
Surr: Dibromofluoromethane	94.3	78.7-124		%REC	199947	50	12/02/2014 14:57	GK
Surr: Dibromofluoromethane	93.2	78.7-124		%REC	199947	1	12/02/2014 19:31	GK
Surr: Toluene-d8	95.6	81.3-120		%REC	199947	50	12/02/2014 14:57	GK
Surr: Toluene-d8	96.5	81.3-120		%REC	199947	1	12/02/2014 19:31	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: MW-25 (112514)
Project Name: Lafarge	Collection Date: 11/25/2014 12:40:00 PM
Lab ID: 1411L55-007	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	199947	1	12/02/2014 16:29	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	199947	1	12/02/2014 16:29	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	199947	1	12/02/2014 16:29	GK
1,1-Dichloroethane	BRL	5.0		ug/L	199947	1	12/02/2014 16:29	GK
1,1-Dichloroethene	BRL	5.0		ug/L	199947	1	12/02/2014 16:29	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	199947	1	12/02/2014 16:29	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	199947	1	12/02/2014 16:29	GK
1,2-Dibromoethane	BRL	5.0		ug/L	199947	1	12/02/2014 16:29	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	199947	1	12/02/2014 16:29	GK
1,2-Dichloroethane	BRL	5.0		ug/L	199947	1	12/02/2014 16:29	GK
1,2-Dichloropropane	BRL	5.0		ug/L	199947	1	12/02/2014 16:29	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	199947	1	12/02/2014 16:29	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	199947	1	12/02/2014 16:29	GK
2-Butanone	BRL	50		ug/L	199947	1	12/02/2014 16:29	GK
2-Hexanone	BRL	10		ug/L	199947	1	12/02/2014 16:29	GK
4-Methyl-2-pentanone	BRL	10		ug/L	199947	1	12/02/2014 16:29	GK
Acetone	BRL	50		ug/L	199947	1	12/02/2014 16:29	GK
Benzene	BRL	5.0		ug/L	199947	1	12/02/2014 16:29	GK
Bromodichloromethane	BRL	5.0		ug/L	199947	1	12/02/2014 16:29	GK
Bromoform	BRL	5.0		ug/L	199947	1	12/02/2014 16:29	GK
Bromomethane	BRL	5.0		ug/L	199947	1	12/02/2014 16:29	GK
Carbon disulfide	BRL	5.0		ug/L	199947	1	12/02/2014 16:29	GK
Carbon tetrachloride	BRL	5.0		ug/L	199947	1	12/02/2014 16:29	GK
Chlorobenzene	BRL	5.0		ug/L	199947	1	12/02/2014 16:29	GK
Chloroethane	BRL	10		ug/L	199947	1	12/02/2014 16:29	GK
Chloroform	BRL	5.0		ug/L	199947	1	12/02/2014 16:29	GK
Chloromethane	BRL	10		ug/L	199947	1	12/02/2014 16:29	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	199947	1	12/02/2014 16:29	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	199947	1	12/02/2014 16:29	GK
Cyclohexane	BRL	5.0		ug/L	199947	1	12/02/2014 16:29	GK
Dibromochloromethane	BRL	5.0		ug/L	199947	1	12/02/2014 16:29	GK
Dichlorodifluoromethane	BRL	10		ug/L	199947	1	12/02/2014 16:29	GK
Ethylbenzene	BRL	5.0		ug/L	199947	1	12/02/2014 16:29	GK
Freon-113	BRL	10		ug/L	199947	1	12/02/2014 16:29	GK
Isopropylbenzene	BRL	5.0		ug/L	199947	1	12/02/2014 16:29	GK
m,p-Xylene	BRL	5.0		ug/L	199947	1	12/02/2014 16:29	GK
Methyl acetate	BRL	5.0		ug/L	199947	1	12/02/2014 16:29	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	199947	1	12/02/2014 16:29	GK
Methylcyclohexane	BRL	5.0		ug/L	199947	1	12/02/2014 16:29	GK
Methylene chloride	BRL	5.0		ug/L	199947	1	12/02/2014 16:29	GK
o-Xylene	BRL	5.0		ug/L	199947	1	12/02/2014 16:29	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: MW-25 (112514)
Project Name: Lafarge	Collection Date: 11/25/2014 12:40:00 PM
Lab ID: 1411L55-007	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5030B)			
Styrene	BRL	5.0		ug/L	199947	1	12/02/2014 16:29	GK
Tetrachloroethene	BRL	5.0		ug/L	199947	1	12/02/2014 16:29	GK
Toluene	BRL	5.0		ug/L	199947	1	12/02/2014 16:29	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	199947	1	12/02/2014 16:29	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	199947	1	12/02/2014 16:29	GK
Trichloroethene	BRL	5.0		ug/L	199947	1	12/02/2014 16:29	GK
Trichlorofluoromethane	BRL	5.0		ug/L	199947	1	12/02/2014 16:29	GK
Vinyl chloride	BRL	2.0		ug/L	199947	1	12/02/2014 16:29	GK
Surr: 4-Bromofluorobenzene	89.7	70.6-123		%REC	199947	1	12/02/2014 16:29	GK
Surr: Dibromofluoromethane	95.8	78.7-124		%REC	199947	1	12/02/2014 16:29	GK
Surr: Toluene-d8	96	81.3-120		%REC	199947	1	12/02/2014 16:29	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: DUP-01 (112514)
Project Name: Lafarge	Collection Date: 11/25/2014
Lab ID: 1411L55-008	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	199947	1	12/02/2014 18:30	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	199947	1	12/02/2014 18:30	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	199947	1	12/02/2014 18:30	GK
1,1-Dichloroethane	BRL	5.0		ug/L	199947	1	12/02/2014 18:30	GK
1,1-Dichloroethene	9.2	5.0		ug/L	199947	1	12/02/2014 18:30	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	199947	1	12/02/2014 18:30	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	199947	1	12/02/2014 18:30	GK
1,2-Dibromoethane	BRL	5.0		ug/L	199947	1	12/02/2014 18:30	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	199947	1	12/02/2014 18:30	GK
1,2-Dichloroethane	BRL	5.0		ug/L	199947	1	12/02/2014 18:30	GK
1,2-Dichloropropane	BRL	5.0		ug/L	199947	1	12/02/2014 18:30	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	199947	1	12/02/2014 18:30	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	199947	1	12/02/2014 18:30	GK
2-Butanone	BRL	50		ug/L	199947	1	12/02/2014 18:30	GK
2-Hexanone	BRL	10		ug/L	199947	1	12/02/2014 18:30	GK
4-Methyl-2-pentanone	BRL	10		ug/L	199947	1	12/02/2014 18:30	GK
Acetone	BRL	50		ug/L	199947	1	12/02/2014 18:30	GK
Benzene	38	5.0		ug/L	199947	1	12/02/2014 18:30	GK
Bromodichloromethane	BRL	5.0		ug/L	199947	1	12/02/2014 18:30	GK
Bromoform	BRL	5.0		ug/L	199947	1	12/02/2014 18:30	GK
Bromomethane	BRL	5.0		ug/L	199947	1	12/02/2014 18:30	GK
Carbon disulfide	BRL	5.0		ug/L	199947	1	12/02/2014 18:30	GK
Carbon tetrachloride	BRL	5.0		ug/L	199947	1	12/02/2014 18:30	GK
Chlorobenzene	BRL	5.0		ug/L	199947	1	12/02/2014 18:30	GK
Chloroethane	BRL	10		ug/L	199947	1	12/02/2014 18:30	GK
Chloroform	BRL	5.0		ug/L	199947	1	12/02/2014 18:30	GK
Chloromethane	BRL	10		ug/L	199947	1	12/02/2014 18:30	GK
cis-1,2-Dichloroethene	7800	500		ug/L	199947	100	12/02/2014 13:27	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	199947	1	12/02/2014 18:30	GK
Cyclohexane	110	5.0		ug/L	199947	1	12/02/2014 18:30	GK
Dibromochloromethane	BRL	5.0		ug/L	199947	1	12/02/2014 18:30	GK
Dichlorodifluoromethane	BRL	10		ug/L	199947	1	12/02/2014 18:30	GK
Ethylbenzene	BRL	5.0		ug/L	199947	1	12/02/2014 18:30	GK
Freon-113	BRL	10		ug/L	199947	1	12/02/2014 18:30	GK
Isopropylbenzene	BRL	5.0		ug/L	199947	1	12/02/2014 18:30	GK
m,p-Xylene	BRL	5.0		ug/L	199947	1	12/02/2014 18:30	GK
Methyl acetate	BRL	5.0		ug/L	199947	1	12/02/2014 18:30	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	199947	1	12/02/2014 18:30	GK
Methylcyclohexane	240	200		ug/L	199947	100	12/02/2014 13:27	GK
Methylene chloride	BRL	5.0		ug/L	199947	1	12/02/2014 18:30	GK
o-Xylene	BRL	5.0		ug/L	199947	1	12/02/2014 18:30	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: DUP-01 (112514)
Project Name: Lafarge	Collection Date: 11/25/2014
Lab ID: 1411L55-008	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	199947	1	12/02/2014 18:30	GK
Tetrachloroethene	BRL	5.0		ug/L	199947	1	12/02/2014 18:30	GK
Toluene	6.8	5.0		ug/L	199947	1	12/02/2014 18:30	GK
trans-1,2-Dichloroethene	9.2	5.0		ug/L	199947	1	12/02/2014 18:30	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	199947	1	12/02/2014 18:30	GK
Trichloroethene	BRL	5.0		ug/L	199947	1	12/02/2014 18:30	GK
Trichlorofluoromethane	BRL	5.0		ug/L	199947	1	12/02/2014 18:30	GK
Vinyl chloride	270	200		ug/L	199947	100	12/02/2014 13:27	GK
Surr: 4-Bromofluorobenzene	91.6	70.6-123		%REC	199947	100	12/02/2014 13:27	GK
Surr: 4-Bromofluorobenzene	93.9	70.6-123		%REC	199947	1	12/02/2014 18:30	GK
Surr: Dibromofluoromethane	96.5	78.7-124		%REC	199947	100	12/02/2014 13:27	GK
Surr: Dibromofluoromethane	98.1	78.7-124		%REC	199947	1	12/02/2014 18:30	GK
Surr: Toluene-d8	95.6	81.3-120		%REC	199947	1	12/02/2014 18:30	GK
Surr: Toluene-d8	95.3	81.3-120		%REC	199947	100	12/02/2014 13:27	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: DUP-02 (112514)
Project Name: Lafarge	Collection Date: 11/25/2014
Lab ID: 1411L55-009	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	199947	1	12/02/2014 16:59	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	199947	1	12/02/2014 16:59	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	199947	1	12/02/2014 16:59	GK
1,1-Dichloroethane	BRL	5.0		ug/L	199947	1	12/02/2014 16:59	GK
1,1-Dichloroethene	BRL	5.0		ug/L	199947	1	12/02/2014 16:59	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	199947	1	12/02/2014 16:59	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	199947	1	12/02/2014 16:59	GK
1,2-Dibromoethane	BRL	5.0		ug/L	199947	1	12/02/2014 16:59	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	199947	1	12/02/2014 16:59	GK
1,2-Dichloroethane	BRL	5.0		ug/L	199947	1	12/02/2014 16:59	GK
1,2-Dichloropropane	BRL	5.0		ug/L	199947	1	12/02/2014 16:59	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	199947	1	12/02/2014 16:59	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	199947	1	12/02/2014 16:59	GK
2-Butanone	BRL	50		ug/L	199947	1	12/02/2014 16:59	GK
2-Hexanone	BRL	10		ug/L	199947	1	12/02/2014 16:59	GK
4-Methyl-2-pentanone	BRL	10		ug/L	199947	1	12/02/2014 16:59	GK
Acetone	BRL	50		ug/L	199947	1	12/02/2014 16:59	GK
Benzene	BRL	5.0		ug/L	199947	1	12/02/2014 16:59	GK
Bromodichloromethane	BRL	5.0		ug/L	199947	1	12/02/2014 16:59	GK
Bromoform	BRL	5.0		ug/L	199947	1	12/02/2014 16:59	GK
Bromomethane	BRL	5.0		ug/L	199947	1	12/02/2014 16:59	GK
Carbon disulfide	BRL	5.0		ug/L	199947	1	12/02/2014 16:59	GK
Carbon tetrachloride	BRL	5.0		ug/L	199947	1	12/02/2014 16:59	GK
Chlorobenzene	BRL	5.0		ug/L	199947	1	12/02/2014 16:59	GK
Chloroethane	BRL	10		ug/L	199947	1	12/02/2014 16:59	GK
Chloroform	BRL	5.0		ug/L	199947	1	12/02/2014 16:59	GK
Chloromethane	BRL	10		ug/L	199947	1	12/02/2014 16:59	GK
cis-1,2-Dichloroethene	16	5.0		ug/L	199947	1	12/02/2014 16:59	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	199947	1	12/02/2014 16:59	GK
Cyclohexane	BRL	5.0		ug/L	199947	1	12/02/2014 16:59	GK
Dibromochloromethane	BRL	5.0		ug/L	199947	1	12/02/2014 16:59	GK
Dichlorodifluoromethane	BRL	10		ug/L	199947	1	12/02/2014 16:59	GK
Ethylbenzene	BRL	5.0		ug/L	199947	1	12/02/2014 16:59	GK
Freon-113	BRL	10		ug/L	199947	1	12/02/2014 16:59	GK
Isopropylbenzene	BRL	5.0		ug/L	199947	1	12/02/2014 16:59	GK
m,p-Xylene	BRL	5.0		ug/L	199947	1	12/02/2014 16:59	GK
Methyl acetate	BRL	5.0		ug/L	199947	1	12/02/2014 16:59	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	199947	1	12/02/2014 16:59	GK
Methylcyclohexane	BRL	5.0		ug/L	199947	1	12/02/2014 16:59	GK
Methylene chloride	BRL	5.0		ug/L	199947	1	12/02/2014 16:59	GK
o-Xylene	BRL	5.0		ug/L	199947	1	12/02/2014 16:59	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: DUP-02 (112514)
Project Name: Lafarge	Collection Date: 11/25/2014
Lab ID: 1411L55-009	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	199947	1	12/02/2014 16:59	GK
Tetrachloroethene	BRL	5.0		ug/L	199947	1	12/02/2014 16:59	GK
Toluene	BRL	5.0		ug/L	199947	1	12/02/2014 16:59	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	199947	1	12/02/2014 16:59	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	199947	1	12/02/2014 16:59	GK
Trichloroethene	BRL	5.0		ug/L	199947	1	12/02/2014 16:59	GK
Trichlorofluoromethane	BRL	5.0		ug/L	199947	1	12/02/2014 16:59	GK
Vinyl chloride	2.8	2.0		ug/L	199947	1	12/02/2014 16:59	GK
Surr: 4-Bromofluorobenzene	90.3	70.6-123		%REC	199947	1	12/02/2014 16:59	GK
Surr: Dibromofluoromethane	95.3	78.7-124		%REC	199947	1	12/02/2014 16:59	GK
Surr: Toluene-d8	95.7	81.3-120		%REC	199947	1	12/02/2014 16:59	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: DUP-03 (112514)
Project Name: Lafarge	Collection Date: 11/25/2014
Lab ID: 1411L55-010	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	500		ug/L	199947	100	12/02/2014 14:27	GK
1,1,2,2-Tetrachloroethane	BRL	500		ug/L	199947	100	12/02/2014 14:27	GK
1,1,2-Trichloroethane	BRL	500		ug/L	199947	100	12/02/2014 14:27	GK
1,1-Dichloroethane	BRL	500		ug/L	199947	100	12/02/2014 14:27	GK
1,1-Dichloroethene	BRL	500		ug/L	199947	100	12/02/2014 14:27	GK
1,2,4-Trichlorobenzene	BRL	500		ug/L	199947	100	12/02/2014 14:27	GK
1,2-Dibromo-3-chloropropane	BRL	500		ug/L	199947	100	12/02/2014 14:27	GK
1,2-Dibromoethane	BRL	500		ug/L	199947	100	12/02/2014 14:27	GK
1,2-Dichlorobenzene	BRL	500		ug/L	199947	100	12/02/2014 14:27	GK
1,2-Dichloroethane	BRL	500		ug/L	199947	100	12/02/2014 14:27	GK
1,2-Dichloropropane	BRL	500		ug/L	199947	100	12/02/2014 14:27	GK
1,3-Dichlorobenzene	BRL	500		ug/L	199947	100	12/02/2014 14:27	GK
1,4-Dichlorobenzene	BRL	500		ug/L	199947	100	12/02/2014 14:27	GK
2-Butanone	BRL	5000		ug/L	199947	100	12/02/2014 14:27	GK
2-Hexanone	BRL	1000		ug/L	199947	100	12/02/2014 14:27	GK
4-Methyl-2-pentanone	BRL	1000		ug/L	199947	100	12/02/2014 14:27	GK
Acetone	BRL	5000		ug/L	199947	100	12/02/2014 14:27	GK
Benzene	BRL	500		ug/L	199947	100	12/02/2014 14:27	GK
Bromodichloromethane	BRL	500		ug/L	199947	100	12/02/2014 14:27	GK
Bromoform	BRL	500		ug/L	199947	100	12/02/2014 14:27	GK
Bromomethane	BRL	500		ug/L	199947	100	12/02/2014 14:27	GK
Carbon disulfide	BRL	500		ug/L	199947	100	12/02/2014 14:27	GK
Carbon tetrachloride	BRL	500		ug/L	199947	100	12/02/2014 14:27	GK
Chlorobenzene	BRL	500		ug/L	199947	100	12/02/2014 14:27	GK
Chloroethane	BRL	1000		ug/L	199947	100	12/02/2014 14:27	GK
Chloroform	BRL	500		ug/L	199947	100	12/02/2014 14:27	GK
Chloromethane	BRL	1000		ug/L	199947	100	12/02/2014 14:27	GK
cis-1,2-Dichloroethene	16000	500		ug/L	199947	100	12/02/2014 14:27	GK
cis-1,3-Dichloropropene	BRL	500		ug/L	199947	100	12/02/2014 14:27	GK
Cyclohexane	BRL	500		ug/L	199947	100	12/02/2014 14:27	GK
Dibromochloromethane	BRL	500		ug/L	199947	100	12/02/2014 14:27	GK
Dichlorodifluoromethane	BRL	1000		ug/L	199947	100	12/02/2014 14:27	GK
Ethylbenzene	BRL	500		ug/L	199947	100	12/02/2014 14:27	GK
Freon-113	BRL	1000		ug/L	199947	100	12/02/2014 14:27	GK
Isopropylbenzene	BRL	500		ug/L	199947	100	12/02/2014 14:27	GK
m,p-Xylene	BRL	500		ug/L	199947	100	12/02/2014 14:27	GK
Methyl acetate	BRL	500		ug/L	199947	100	12/02/2014 14:27	GK
Methyl tert-butyl ether	BRL	500		ug/L	199947	100	12/02/2014 14:27	GK
Methylcyclohexane	BRL	500		ug/L	199947	100	12/02/2014 14:27	GK
Methylene chloride	BRL	500		ug/L	199947	100	12/02/2014 14:27	GK
o-Xylene	BRL	500		ug/L	199947	100	12/02/2014 14:27	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: DUP-03 (112514)
Project Name: Lafarge	Collection Date: 11/25/2014
Lab ID: 1411L55-010	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	500		ug/L	199947	100	12/02/2014 14:27	GK
Tetrachloroethene	BRL	500		ug/L	199947	100	12/02/2014 14:27	GK
Toluene	BRL	500		ug/L	199947	100	12/02/2014 14:27	GK
trans-1,2-Dichloroethene	BRL	500		ug/L	199947	100	12/02/2014 14:27	GK
trans-1,3-Dichloropropene	BRL	500		ug/L	199947	100	12/02/2014 14:27	GK
Trichloroethene	19000	500		ug/L	199947	100	12/02/2014 14:27	GK
Trichlorofluoromethane	BRL	500		ug/L	199947	100	12/02/2014 14:27	GK
Vinyl chloride	BRL	200		ug/L	199947	100	12/02/2014 14:27	GK
Surr: 4-Bromofluorobenzene	89.9	70.6-123		%REC	199947	100	12/02/2014 14:27	GK
Surr: Dibromofluoromethane	95.1	78.7-124		%REC	199947	100	12/02/2014 14:27	GK
Surr: Toluene-d8	96.5	81.3-120		%REC	199947	100	12/02/2014 14:27	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: RW-2 (112514)
Project Name: Lafarge	Collection Date: 11/25/2014 8:00:00 AM
Lab ID: 1411L55-011	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	199947	1	12/02/2014 19:01	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	199947	1	12/02/2014 19:01	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	199947	1	12/02/2014 19:01	GK
1,1-Dichloroethane	BRL	5.0		ug/L	199947	1	12/02/2014 19:01	GK
1,1-Dichloroethene	5.1	5.0		ug/L	199947	1	12/02/2014 19:01	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	199947	1	12/02/2014 19:01	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	199947	1	12/02/2014 19:01	GK
1,2-Dibromoethane	BRL	5.0		ug/L	199947	1	12/02/2014 19:01	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	199947	1	12/02/2014 19:01	GK
1,2-Dichloroethane	BRL	5.0		ug/L	199947	1	12/02/2014 19:01	GK
1,2-Dichloropropane	BRL	5.0		ug/L	199947	1	12/02/2014 19:01	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	199947	1	12/02/2014 19:01	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	199947	1	12/02/2014 19:01	GK
2-Butanone	BRL	50		ug/L	199947	1	12/02/2014 19:01	GK
2-Hexanone	BRL	10		ug/L	199947	1	12/02/2014 19:01	GK
4-Methyl-2-pentanone	13	10		ug/L	199947	1	12/02/2014 19:01	GK
Acetone	BRL	50		ug/L	199947	1	12/02/2014 19:01	GK
Benzene	200	5.0		ug/L	199947	1	12/02/2014 19:01	GK
Bromodichloromethane	BRL	5.0		ug/L	199947	1	12/02/2014 19:01	GK
Bromoform	BRL	5.0		ug/L	199947	1	12/02/2014 19:01	GK
Bromomethane	BRL	5.0		ug/L	199947	1	12/02/2014 19:01	GK
Carbon disulfide	BRL	5.0		ug/L	199947	1	12/02/2014 19:01	GK
Carbon tetrachloride	BRL	5.0		ug/L	199947	1	12/02/2014 19:01	GK
Chlorobenzene	BRL	5.0		ug/L	199947	1	12/02/2014 19:01	GK
Chloroethane	BRL	10		ug/L	199947	1	12/02/2014 19:01	GK
Chloroform	BRL	5.0		ug/L	199947	1	12/02/2014 19:01	GK
Chloromethane	BRL	10		ug/L	199947	1	12/02/2014 19:01	GK
cis-1,2-Dichloroethene	3600	500		ug/L	199947	100	12/02/2014 12:57	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	199947	1	12/02/2014 19:01	GK
Cyclohexane	24	5.0		ug/L	199947	1	12/02/2014 19:01	GK
Dibromochloromethane	BRL	5.0		ug/L	199947	1	12/02/2014 19:01	GK
Dichlorodifluoromethane	BRL	10		ug/L	199947	1	12/02/2014 19:01	GK
Ethylbenzene	BRL	5.0		ug/L	199947	1	12/02/2014 19:01	GK
Freon-113	BRL	10		ug/L	199947	1	12/02/2014 19:01	GK
Isopropylbenzene	BRL	5.0		ug/L	199947	1	12/02/2014 19:01	GK
m,p-Xylene	890	500		ug/L	199947	100	12/02/2014 12:57	GK
Methyl acetate	BRL	5.0		ug/L	199947	1	12/02/2014 19:01	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	199947	1	12/02/2014 19:01	GK
Methylcyclohexane	16	5.0		ug/L	199947	1	12/02/2014 19:01	GK
Methylene chloride	BRL	5.0		ug/L	199947	1	12/02/2014 19:01	GK
o-Xylene	320	200		ug/L	199947	100	12/02/2014 12:57	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: RW-2 (112514)
Project Name: Lafarge	Collection Date: 11/25/2014 8:00:00 AM
Lab ID: 1411L55-011	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	199947	1	12/02/2014 19:01	GK
Tetrachloroethene	BRL	5.0		ug/L	199947	1	12/02/2014 19:01	GK
Toluene	4500	500		ug/L	199947	100	12/02/2014 12:57	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	199947	1	12/02/2014 19:01	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	199947	1	12/02/2014 19:01	GK
Trichloroethene	180	5.0		ug/L	199947	1	12/02/2014 19:01	GK
Trichlorofluoromethane	BRL	5.0		ug/L	199947	1	12/02/2014 19:01	GK
Vinyl chloride	480	200		ug/L	199947	100	12/02/2014 12:57	GK
Surr: 4-Bromofluorobenzene	90.4	70.6-123		%REC	199947	100	12/02/2014 12:57	GK
Surr: 4-Bromofluorobenzene	93.8	70.6-123		%REC	199947	1	12/02/2014 19:01	GK
Surr: Dibromofluoromethane	95.7	78.7-124		%REC	199947	1	12/02/2014 19:01	GK
Surr: Dibromofluoromethane	94.6	78.7-124		%REC	199947	100	12/02/2014 12:57	GK
Surr: Toluene-d8	95.3	81.3-120		%REC	199947	100	12/02/2014 12:57	GK
Surr: Toluene-d8	97.4	81.3-120		%REC	199947	1	12/02/2014 19:01	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: TRIP BLANK (112514)
Project Name: Lafarge	Collection Date: 11/25/2014
Lab ID: 1411L55-012	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	199947	1	12/01/2014 22:52	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	199947	1	12/01/2014 22:52	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	199947	1	12/01/2014 22:52	GK
1,1-Dichloroethane	BRL	5.0		ug/L	199947	1	12/01/2014 22:52	GK
1,1-Dichloroethene	BRL	5.0		ug/L	199947	1	12/01/2014 22:52	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	199947	1	12/01/2014 22:52	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	199947	1	12/01/2014 22:52	GK
1,2-Dibromoethane	BRL	5.0		ug/L	199947	1	12/01/2014 22:52	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	199947	1	12/01/2014 22:52	GK
1,2-Dichloroethane	BRL	5.0		ug/L	199947	1	12/01/2014 22:52	GK
1,2-Dichloropropane	BRL	5.0		ug/L	199947	1	12/01/2014 22:52	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	199947	1	12/01/2014 22:52	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	199947	1	12/01/2014 22:52	GK
2-Butanone	BRL	50		ug/L	199947	1	12/01/2014 22:52	GK
2-Hexanone	BRL	10		ug/L	199947	1	12/01/2014 22:52	GK
4-Methyl-2-pentanone	BRL	10		ug/L	199947	1	12/01/2014 22:52	GK
Acetone	BRL	50		ug/L	199947	1	12/01/2014 22:52	GK
Benzene	BRL	5.0		ug/L	199947	1	12/01/2014 22:52	GK
Bromodichloromethane	BRL	5.0		ug/L	199947	1	12/01/2014 22:52	GK
Bromoform	BRL	5.0		ug/L	199947	1	12/01/2014 22:52	GK
Bromomethane	BRL	5.0		ug/L	199947	1	12/01/2014 22:52	GK
Carbon disulfide	BRL	5.0		ug/L	199947	1	12/01/2014 22:52	GK
Carbon tetrachloride	BRL	5.0		ug/L	199947	1	12/01/2014 22:52	GK
Chlorobenzene	BRL	5.0		ug/L	199947	1	12/01/2014 22:52	GK
Chloroethane	BRL	10		ug/L	199947	1	12/01/2014 22:52	GK
Chloroform	BRL	5.0		ug/L	199947	1	12/01/2014 22:52	GK
Chloromethane	BRL	10		ug/L	199947	1	12/01/2014 22:52	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	199947	1	12/01/2014 22:52	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	199947	1	12/01/2014 22:52	GK
Cyclohexane	BRL	5.0		ug/L	199947	1	12/01/2014 22:52	GK
Dibromochloromethane	BRL	5.0		ug/L	199947	1	12/01/2014 22:52	GK
Dichlorodifluoromethane	BRL	10		ug/L	199947	1	12/01/2014 22:52	GK
Ethylbenzene	BRL	5.0		ug/L	199947	1	12/01/2014 22:52	GK
Freon-113	BRL	10		ug/L	199947	1	12/01/2014 22:52	GK
Isopropylbenzene	BRL	5.0		ug/L	199947	1	12/01/2014 22:52	GK
m,p-Xylene	BRL	5.0		ug/L	199947	1	12/01/2014 22:52	GK
Methyl acetate	BRL	5.0		ug/L	199947	1	12/01/2014 22:52	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	199947	1	12/01/2014 22:52	GK
Methylcyclohexane	BRL	5.0		ug/L	199947	1	12/01/2014 22:52	GK
Methylene chloride	BRL	5.0		ug/L	199947	1	12/01/2014 22:52	GK
o-Xylene	BRL	5.0		ug/L	199947	1	12/01/2014 22:52	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: TRIP BLANK (112514)
Project Name: Lafarge	Collection Date: 11/25/2014
Lab ID: 1411L55-012	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	199947	1	12/01/2014 22:52	GK
Tetrachloroethene	BRL	5.0		ug/L	199947	1	12/01/2014 22:52	GK
Toluene	BRL	5.0		ug/L	199947	1	12/01/2014 22:52	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	199947	1	12/01/2014 22:52	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	199947	1	12/01/2014 22:52	GK
Trichloroethene	BRL	5.0		ug/L	199947	1	12/01/2014 22:52	GK
Trichlorofluoromethane	BRL	5.0		ug/L	199947	1	12/01/2014 22:52	GK
Vinyl chloride	BRL	2.0		ug/L	199947	1	12/01/2014 22:52	GK
Surr: 4-Bromofluorobenzene	90.3	70.6-123		%REC	199947	1	12/01/2014 22:52	GK
Surr: Dibromofluoromethane	94.8	78.7-124		%REC	199947	1	12/01/2014 22:52	GK
Surr: Toluene-d8	96.9	81.3-120		%REC	199947	1	12/01/2014 22:52	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Arcadis

Work Order Number 1411055

Checklist completed by Joana Paucar 11/25/14 - 11/26/14
Signature Date

Carrier name: FedEx UPS Courier Client US Mail Other

Shipping container/cooler in good condition? Yes No Not Present

Custody seals intact on shipping container/cooler? Yes No Not Present

Custody seals intact on sample bottles? Yes No Not Present

Container/Temp Blank temperature in compliance? (0°≤6°C)* Yes No

Cooler #1 3.1 Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present? Yes No

Chain of custody signed when relinquished and received? Yes No

Chain of custody agrees with sample labels? Yes No

Samples in proper container/bottle? Yes No

Sample containers intact? Yes No

Sufficient sample volume for indicated test? Yes No

All samples received within holding time? Yes No

Was TAT marked on the COC? Yes No

Proceed with Standard TAT as per project history? Yes No Not Applicable

Water - VOA vials have zero headspace? No VOA vials submitted Yes No

Water - pH acceptable upon receipt? Yes No Not Applicable

Adjusted? _____ Checked by _____

Sample Condition: Good Other(Explain) _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes No

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

Client: Arcadis
 Project Name: Lafarge
 Workorder: 1411L55

ANALYTICAL QC SUMMARY REPORT

BatchID: 199947

Sample ID: MB-199947	Client ID:	Units: ug/L	Prep Date: 12/01/2014	Run No: 281051							
Sample Type: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 199947	Analysis Date: 12/01/2014	Seq No: 5946954							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
2-Butanone	BRL	50									
2-Hexanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	50									
Benzene	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon disulfide	BRL	5.0									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									
Chloroform	BRL	5.0									
Chloromethane	BRL	10									

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
 Project Name: Lafarge
 Workorder: 1411L55

ANALYTICAL QC SUMMARY REPORT

BatchID: 199947

Sample ID: MB-199947	Client ID:	Units: ug/L	Prep Date: 12/01/2014	Run No: 281051							
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 199947	Analysis Date: 12/01/2014	Seq No: 5946954							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	5.0									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	2.0									
Surr: 4-Bromofluorobenzene	45.13	0	50.00		90.3	70.6	123				
Surr: Dibromofluoromethane	47.01	0	50.00		94.0	78.7	124				
Surr: Toluene-d8	47.49	0	50.00		95.0	81.3	120				

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
 Project Name: Lafarge
 Workorder: 1411L55

ANALYTICAL QC SUMMARY REPORT

BatchID: 199947

Sample ID: LCS-199947	Client ID:	Units: ug/L	Prep Date: 12/01/2014	Run No: 281051							
SampleType: LCS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 199947	Analysis Date: 12/01/2014	Seq No: 5946953							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	39.23	5.0	50.00		78.5	64.2	137				
Benzene	44.44	5.0	50.00		88.9	72.8	128				
Chlorobenzene	44.93	5.0	50.00		89.9	72.3	126				
Toluene	45.61	5.0	50.00		91.2	74.9	127				
Trichloroethene	48.03	5.0	50.00		96.1	70.5	134				
Surr: 4-Bromofluorobenzene	44.89	0	50.00		89.8	70.6	123				
Surr: Dibromofluoromethane	46.92	0	50.00		93.8	78.7	124				
Surr: Toluene-d8	47.08	0	50.00		94.2	81.3	120				

Sample ID: 1411L55-001AMS	Client ID: MW-7 (112514)	Units: ug/L	Prep Date: 12/01/2014	Run No: 281051							
SampleType: MS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 199947	Analysis Date: 12/01/2014	Seq No: 5947009							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	20560	2500	25000		82.2	60.2	159				
Benzene	23020	2500	25000		92.1	70.2	138				
Chlorobenzene	23110	2500	25000		92.4	70.1	133				
Toluene	23610	2500	25000		94.4	70	139				
Trichloroethene	43150	2500	25000	18100	100	70.1	144				
Surr: 4-Bromofluorobenzene	22760	0	25000		91.0	70.6	123				
Surr: Dibromofluoromethane	23460	0	25000		93.8	78.7	124				
Surr: Toluene-d8	23880	0	25000		95.5	81.3	120				

Sample ID: 1411L55-001AMSD	Client ID: MW-7 (112514)	Units: ug/L	Prep Date: 12/01/2014	Run No: 281051							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 199947	Analysis Date: 12/02/2014	Seq No: 5947010							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	19530	2500	25000		78.1	60.2	159	20560	5.14	19.2	
Benzene	22490	2500	25000		89.9	70.2	138	23020	2.33	20	

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Arcadis
 Project Name: Lafarge
 Workorder: 1411L55

ANALYTICAL QC SUMMARY REPORT

BatchID: 199947

Sample ID: 1411L55-001AMSD	Client ID: MW-7 (112514)	Units: ug/L	Prep Date: 12/01/2014	Run No: 281051
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 199947	Analysis Date: 12/02/2014	Seq No: 5947010

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	22300	2500	25000		89.2	70.1	133	23110	3.59	20	
Toluene	22580	2500	25000		90.3	70	139	23610	4.48	20	
Trichloroethene	41380	2500	25000	18100	93.1	70.1	144	43150	4.19	20	
Surr: 4-Bromofluorobenzene	22660	0	25000		90.6	70.6	123	22760	0	0	
Surr: Dibromofluoromethane	23230	0	25000		92.9	78.7	124	23460	0	0	
Surr: Toluene-d8	23890	0	25000		95.5	81.3	120	23880	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		



October 19, 2013

Peter Cornais
Arcadis
2081 Vista Parkway, Suite 200
West Palm Beach FL 33411

TEL: (850) 445-0829
FAX:

RE: Lafarge EP

Dear Peter Cornais:

Order No: 1310746

Analytical Environmental Services, Inc. received 13 samples on 10/8/2013 4:40:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/13-06/30/14.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/15.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Chantelle Kanhai
Project Manager



ANALYTICAL ENVIRONMENTAL SERVICES, INC

3785 Presidential Parkway, Atlanta GA 30340-3704

TEL: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1310746

Date: 10/8/13 Page 1 of 1

#	SAMPLE ID	SAMPLED		Grab	Composite	Matrix (See codes)	ANALYSIS REQUESTED		REMARKS	No # of Containers
		DATE	TIME				PRESERVATION (See codes)			
1	MW-26 (100813)	10/8/13	1650	+		HW				4
2	MW-27 (100813)	10/8/13	1405	+		HW				4
3	MW-17 (100813)	10/8/13	1545	+		HW				4
4	MW-30 (100813)	10/8/13	0835	+		HW				4
5	MW-31 (100813)	10/8/13	1035	+		HW				4
6	MW-3 (100813)	10/8/13	1205	+		HW				4
7	MW-4 (100813)	10/8/13	1845	+		HW				4
8	MW-33 (100813)	10/8/13	1350	+		HW				4
9	Trip Blank	10/8/13		+		W				1
10	MW-32 (100813)	10/8/13	1405	+		HW				4
11	MW-21 (100813)	10/8/13	0925	+		HW				4
12	MW-8 (100813)	10/8/13	1035	+		HW				4
13	MW-7 (100813)	10/8/13	1145	+		HW				4
14										

COMPANY: ARCADIS	ADDRESS: 1000 Cobb Place Blvd Bldg 500-A
PHONE: (770) 428-9009	Kennesaw, GA 30144
SAMPLED BY: Marc Myer	SIGNATURE: <i>[Signature]</i>
	DATE/TIME RECEIVED BY: <i>[Signature]</i> 10/08/13 3:40
	DATE/TIME: 10-8-13, 1600
	DATE/TIME: 10/08/13 4:40
	DATE/TIME: 10/08/13 4:40

PROJECT NAME: Labyle EP	PROJECT INFORMATION
PROJECT #: H1212716	
SITE ADDRESS: 2675 RN Martin St	
Send Point: left	
SEND REPORT TO: Peter Lominiz@arcadis-usa.com	
INVOICE TO: (IF DIFFERENT FROM ABOVE)	
QUOTE #: _____	PO#: _____

STATE PROGRAM (if any):	RECEIPT
E-mail? Y/N; Fax? Y/N	Total # of Containers
DATA PACKAGE: I II III IV	Turnaround Time Request
	Standard 5 Business Days
	2 Business Day Rush
	Next Business Day Rush
	Same Day Rush (auth req)
	Other

Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURN AROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES. SAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMPLETION UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water
 PRESERVATIVE CODES: H+1 = Hydrochloric acid + ice I = Ice only N = Nitric acid S+1 = Sulfuric acid + ice SM+1 = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

SHIPMENT METHOD: OUT / / / VIA: COURIER
 CLIENT: FedEx UPS MAIL
 GREYHOUND OTHER

page 2 of 35

White Copy - Original; Yellow Copy - Client

Client: Arcadis	Client Sample ID: MW-26 (100713)
Project Name: Lafarge EP	Collection Date: 10/7/2013 4:50:00 PM
Lab ID: 1310746-001	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	182226	1	10/10/2013 21:39	AR
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	182226	1	10/10/2013 21:39	AR
1,1,2-Trichloroethane	BRL	5.0		ug/L	182226	1	10/10/2013 21:39	AR
1,1-Dichloroethane	BRL	5.0		ug/L	182226	1	10/10/2013 21:39	AR
1,1-Dichloroethene	BRL	5.0		ug/L	182226	1	10/10/2013 21:39	AR
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	182226	1	10/10/2013 21:39	AR
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	182226	1	10/10/2013 21:39	AR
1,2-Dibromoethane	BRL	5.0		ug/L	182226	1	10/10/2013 21:39	AR
1,2-Dichlorobenzene	BRL	5.0		ug/L	182226	1	10/10/2013 21:39	AR
1,2-Dichloroethane	BRL	5.0		ug/L	182226	1	10/10/2013 21:39	AR
1,2-Dichloropropane	BRL	5.0		ug/L	182226	1	10/10/2013 21:39	AR
1,3-Dichlorobenzene	BRL	5.0		ug/L	182226	1	10/10/2013 21:39	AR
1,4-Dichlorobenzene	BRL	5.0		ug/L	182226	1	10/10/2013 21:39	AR
2-Butanone	BRL	50		ug/L	182226	1	10/10/2013 21:39	AR
2-Hexanone	BRL	10		ug/L	182226	1	10/10/2013 21:39	AR
4-Methyl-2-pentanone	BRL	10		ug/L	182226	1	10/10/2013 21:39	AR
Acetone	BRL	50		ug/L	182226	1	10/10/2013 21:39	AR
Benzene	BRL	5.0		ug/L	182226	1	10/10/2013 21:39	AR
Bromodichloromethane	BRL	5.0		ug/L	182226	1	10/10/2013 21:39	AR
Bromoform	BRL	5.0		ug/L	182226	1	10/10/2013 21:39	AR
Bromomethane	BRL	5.0		ug/L	182226	1	10/10/2013 21:39	AR
Carbon disulfide	BRL	5.0		ug/L	182226	1	10/10/2013 21:39	AR
Carbon tetrachloride	BRL	5.0		ug/L	182226	1	10/10/2013 21:39	AR
Chlorobenzene	BRL	5.0		ug/L	182226	1	10/10/2013 21:39	AR
Chloroethane	BRL	10		ug/L	182226	1	10/10/2013 21:39	AR
Chloroform	BRL	5.0		ug/L	182226	1	10/10/2013 21:39	AR
Chloromethane	BRL	10		ug/L	182226	1	10/10/2013 21:39	AR
cis-1,2-Dichloroethene	200	5.0		ug/L	182226	1	10/10/2013 21:39	AR
cis-1,3-Dichloropropene	BRL	5.0		ug/L	182226	1	10/10/2013 21:39	AR
Cyclohexane	BRL	5.0		ug/L	182226	1	10/10/2013 21:39	AR
Dibromochloromethane	BRL	5.0		ug/L	182226	1	10/10/2013 21:39	AR
Dichlorodifluoromethane	BRL	10		ug/L	182226	1	10/10/2013 21:39	AR
Ethylbenzene	BRL	5.0		ug/L	182226	1	10/10/2013 21:39	AR
Freon-113	BRL	10		ug/L	182226	1	10/10/2013 21:39	AR
Isopropylbenzene	BRL	5.0		ug/L	182226	1	10/10/2013 21:39	AR
m,p-Xylene	BRL	5.0		ug/L	182226	1	10/10/2013 21:39	AR
Methyl acetate	BRL	5.0		ug/L	182226	1	10/10/2013 21:39	AR
Methyl tert-butyl ether	BRL	5.0		ug/L	182226	1	10/10/2013 21:39	AR
Methylcyclohexane	BRL	5.0		ug/L	182226	1	10/10/2013 21:39	AR
Methylene chloride	BRL	5.0		ug/L	182226	1	10/10/2013 21:39	AR
o-Xylene	BRL	5.0		ug/L	182226	1	10/10/2013 21:39	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: MW-26 (100713)
Project Name: Lafarge EP	Collection Date: 10/7/2013 4:50:00 PM
Lab ID: 1310746-001	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5030B)			
Styrene	BRL	5.0		ug/L	182226	1	10/10/2013 21:39	AR
Tetrachloroethene	BRL	5.0		ug/L	182226	1	10/10/2013 21:39	AR
Toluene	BRL	5.0		ug/L	182226	1	10/10/2013 21:39	AR
trans-1,2-Dichloroethene	BRL	5.0		ug/L	182226	1	10/10/2013 21:39	AR
trans-1,3-Dichloropropene	BRL	5.0		ug/L	182226	1	10/10/2013 21:39	AR
Trichloroethene	6.4	5.0		ug/L	182226	1	10/10/2013 21:39	AR
Trichlorofluoromethane	BRL	5.0		ug/L	182226	1	10/10/2013 21:39	AR
Vinyl chloride	BRL	2.0		ug/L	182226	1	10/10/2013 21:39	AR
Surr: 4-Bromofluorobenzene	86.2	66.2-120		%REC	182226	1	10/10/2013 21:39	AR
Surr: Dibromofluoromethane	104	79.5-121		%REC	182226	1	10/10/2013 21:39	AR
Surr: Toluene-d8	93.6	77-117		%REC	182226	1	10/10/2013 21:39	AR
METALS, DISSOLVED SW6010C					(SW3005A)			
Lead	BRL	0.0100		mg/L	182234	1	10/14/2013 11:05	JL
METALS, TOTAL SW6010C					(SW3010A)			
Lead	BRL	0.0100		mg/L	182188	1	10/10/2013 22:54	MR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: MW-2 (100713)
Project Name: Lafarge EP	Collection Date: 10/7/2013 2:05:00 PM
Lab ID: 1310746-002	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	182226	1	10/10/2013 22:08	AR
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	182226	1	10/10/2013 22:08	AR
1,1,2-Trichloroethane	BRL	5.0		ug/L	182226	1	10/10/2013 22:08	AR
1,1-Dichloroethane	BRL	5.0		ug/L	182226	1	10/10/2013 22:08	AR
1,1-Dichloroethene	BRL	5.0		ug/L	182226	1	10/10/2013 22:08	AR
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	182226	1	10/10/2013 22:08	AR
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	182226	1	10/10/2013 22:08	AR
1,2-Dibromoethane	BRL	5.0		ug/L	182226	1	10/10/2013 22:08	AR
1,2-Dichlorobenzene	BRL	5.0		ug/L	182226	1	10/10/2013 22:08	AR
1,2-Dichloroethane	BRL	5.0		ug/L	182226	1	10/10/2013 22:08	AR
1,2-Dichloropropane	BRL	5.0		ug/L	182226	1	10/10/2013 22:08	AR
1,3-Dichlorobenzene	BRL	5.0		ug/L	182226	1	10/10/2013 22:08	AR
1,4-Dichlorobenzene	BRL	5.0		ug/L	182226	1	10/10/2013 22:08	AR
2-Butanone	BRL	50		ug/L	182226	1	10/10/2013 22:08	AR
2-Hexanone	BRL	10		ug/L	182226	1	10/10/2013 22:08	AR
4-Methyl-2-pentanone	BRL	10		ug/L	182226	1	10/10/2013 22:08	AR
Acetone	BRL	50		ug/L	182226	1	10/10/2013 22:08	AR
Benzene	3100	100		ug/L	182226	20	10/11/2013 21:28	AK
Bromodichloromethane	BRL	5.0		ug/L	182226	1	10/10/2013 22:08	AR
Bromoform	BRL	5.0		ug/L	182226	1	10/10/2013 22:08	AR
Bromomethane	BRL	5.0		ug/L	182226	1	10/10/2013 22:08	AR
Carbon disulfide	BRL	5.0		ug/L	182226	1	10/10/2013 22:08	AR
Carbon tetrachloride	BRL	5.0		ug/L	182226	1	10/10/2013 22:08	AR
Chlorobenzene	BRL	5.0		ug/L	182226	1	10/10/2013 22:08	AR
Chloroethane	BRL	10		ug/L	182226	1	10/10/2013 22:08	AR
Chloroform	BRL	5.0		ug/L	182226	1	10/10/2013 22:08	AR
Chloromethane	BRL	10		ug/L	182226	1	10/10/2013 22:08	AR
cis-1,2-Dichloroethene	BRL	5.0		ug/L	182226	1	10/10/2013 22:08	AR
cis-1,3-Dichloropropene	BRL	5.0		ug/L	182226	1	10/10/2013 22:08	AR
Cyclohexane	1200	100		ug/L	182226	20	10/11/2013 21:28	AK
Dibromochloromethane	BRL	5.0		ug/L	182226	1	10/10/2013 22:08	AR
Dichlorodifluoromethane	BRL	10		ug/L	182226	1	10/10/2013 22:08	AR
Ethylbenzene	490	100		ug/L	182226	20	10/11/2013 21:28	AK
Freon-113	BRL	10		ug/L	182226	1	10/10/2013 22:08	AR
Isopropylbenzene	5.6	5.0		ug/L	182226	1	10/10/2013 22:08	AR
m,p-Xylene	1600	100		ug/L	182226	20	10/11/2013 21:28	AK
Methyl acetate	BRL	5.0		ug/L	182226	1	10/10/2013 22:08	AR
Methyl tert-butyl ether	BRL	5.0		ug/L	182226	1	10/10/2013 22:08	AR
Methylcyclohexane	800	100		ug/L	182226	20	10/11/2013 21:28	AK
Methylene chloride	BRL	5.0		ug/L	182226	1	10/10/2013 22:08	AR
o-Xylene	75	5.0		ug/L	182226	1	10/10/2013 22:08	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: MW-2 (100713)
Project Name: Lafarge EP	Collection Date: 10/7/2013 2:05:00 PM
Lab ID: 1310746-002	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5030B)			
Styrene	BRL	5.0		ug/L	182226	1	10/10/2013 22:08	AR
Tetrachloroethene	BRL	5.0		ug/L	182226	1	10/10/2013 22:08	AR
Toluene	110	5.0		ug/L	182226	1	10/10/2013 22:08	AR
trans-1,2-Dichloroethene	BRL	5.0		ug/L	182226	1	10/10/2013 22:08	AR
trans-1,3-Dichloropropene	BRL	5.0		ug/L	182226	1	10/10/2013 22:08	AR
Trichloroethene	BRL	5.0		ug/L	182226	1	10/10/2013 22:08	AR
Trichlorofluoromethane	BRL	5.0		ug/L	182226	1	10/10/2013 22:08	AR
Vinyl chloride	790	40		ug/L	182226	20	10/11/2013 21:28	AK
Surr: 4-Bromofluorobenzene	94.5	66.2-120		%REC	182226	1	10/10/2013 22:08	AR
Surr: 4-Bromofluorobenzene	91.3	66.2-120		%REC	182226	20	10/11/2013 21:28	AK
Surr: Dibromofluoromethane	89.6	79.5-121		%REC	182226	1	10/10/2013 22:08	AR
Surr: Dibromofluoromethane	92.4	79.5-121		%REC	182226	20	10/11/2013 21:28	AK
Surr: Toluene-d8	101	77-117		%REC	182226	1	10/10/2013 22:08	AR
Surr: Toluene-d8	94.7	77-117		%REC	182226	20	10/11/2013 21:28	AK
METALS, DISSOLVED SW6010C					(SW3005A)			
Lead	BRL	0.0100		mg/L	182234	1	10/14/2013 11:24	JL
METALS, TOTAL SW6010C					(SW3010A)			
Lead	BRL	0.0100		mg/L	182188	1	10/10/2013 22:58	MR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: MW-17 (100713)
Project Name: Lafarge EP	Collection Date: 10/7/2013 3:45:00 PM
Lab ID: 1310746-003	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	182226	1	10/11/2013 00:06	AR
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	182226	1	10/11/2013 00:06	AR
1,1,2-Trichloroethane	BRL	5.0		ug/L	182226	1	10/11/2013 00:06	AR
1,1-Dichloroethane	BRL	5.0		ug/L	182226	1	10/11/2013 00:06	AR
1,1-Dichloroethene	BRL	5.0		ug/L	182226	1	10/11/2013 00:06	AR
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	182226	1	10/11/2013 00:06	AR
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	182226	1	10/11/2013 00:06	AR
1,2-Dibromoethane	BRL	5.0		ug/L	182226	1	10/11/2013 00:06	AR
1,2-Dichlorobenzene	BRL	5.0		ug/L	182226	1	10/11/2013 00:06	AR
1,2-Dichloroethane	BRL	5.0		ug/L	182226	1	10/11/2013 00:06	AR
1,2-Dichloropropane	BRL	5.0		ug/L	182226	1	10/11/2013 00:06	AR
1,3-Dichlorobenzene	BRL	5.0		ug/L	182226	1	10/11/2013 00:06	AR
1,4-Dichlorobenzene	BRL	5.0		ug/L	182226	1	10/11/2013 00:06	AR
2-Butanone	BRL	50		ug/L	182226	1	10/11/2013 00:06	AR
2-Hexanone	BRL	10		ug/L	182226	1	10/11/2013 00:06	AR
4-Methyl-2-pentanone	BRL	10		ug/L	182226	1	10/11/2013 00:06	AR
Acetone	BRL	50		ug/L	182226	1	10/11/2013 00:06	AR
Benzene	220	50		ug/L	182226	10	10/11/2013 22:53	AK
Bromodichloromethane	BRL	5.0		ug/L	182226	1	10/11/2013 00:06	AR
Bromoform	BRL	5.0		ug/L	182226	1	10/11/2013 00:06	AR
Bromomethane	BRL	5.0		ug/L	182226	1	10/11/2013 00:06	AR
Carbon disulfide	BRL	5.0		ug/L	182226	1	10/11/2013 00:06	AR
Carbon tetrachloride	BRL	5.0		ug/L	182226	1	10/11/2013 00:06	AR
Chlorobenzene	BRL	5.0		ug/L	182226	1	10/11/2013 00:06	AR
Chloroethane	BRL	10		ug/L	182226	1	10/11/2013 00:06	AR
Chloroform	BRL	5.0		ug/L	182226	1	10/11/2013 00:06	AR
Chloromethane	BRL	10		ug/L	182226	1	10/11/2013 00:06	AR
cis-1,2-Dichloroethene	19	5.0		ug/L	182226	1	10/11/2013 00:06	AR
cis-1,3-Dichloropropene	BRL	5.0		ug/L	182226	1	10/11/2013 00:06	AR
Cyclohexane	1300	50		ug/L	182226	10	10/11/2013 22:53	AK
Dibromochloromethane	BRL	5.0		ug/L	182226	1	10/11/2013 00:06	AR
Dichlorodifluoromethane	BRL	10		ug/L	182226	1	10/11/2013 00:06	AR
Ethylbenzene	61	5.0		ug/L	182226	1	10/11/2013 00:06	AR
Freon-113	BRL	10		ug/L	182226	1	10/11/2013 00:06	AR
Isopropylbenzene	BRL	5.0		ug/L	182226	1	10/11/2013 00:06	AR
m,p-Xylene	200	5.0		ug/L	182226	1	10/11/2013 00:06	AR
Methyl acetate	BRL	5.0		ug/L	182226	1	10/11/2013 00:06	AR
Methyl tert-butyl ether	BRL	5.0		ug/L	182226	1	10/11/2013 00:06	AR
Methylcyclohexane	520	50		ug/L	182226	10	10/11/2013 22:53	AK
Methylene chloride	BRL	5.0		ug/L	182226	1	10/11/2013 00:06	AR
o-Xylene	BRL	5.0		ug/L	182226	1	10/11/2013 00:06	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: MW-17 (100713)
Project Name: Lafarge EP	Collection Date: 10/7/2013 3:45:00 PM
Lab ID: 1310746-003	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	182226	1	10/11/2013 00:06	AR
Tetrachloroethene	BRL	5.0		ug/L	182226	1	10/11/2013 00:06	AR
Toluene	BRL	5.0		ug/L	182226	1	10/11/2013 00:06	AR
trans-1,2-Dichloroethene	BRL	5.0		ug/L	182226	1	10/11/2013 00:06	AR
trans-1,3-Dichloropropene	BRL	5.0		ug/L	182226	1	10/11/2013 00:06	AR
Trichloroethene	BRL	5.0		ug/L	182226	1	10/11/2013 00:06	AR
Trichlorofluoromethane	BRL	5.0		ug/L	182226	1	10/11/2013 00:06	AR
Vinyl chloride	2.6	2.0		ug/L	182226	1	10/11/2013 00:06	AR
Surr: 4-Bromofluorobenzene	88.8	66.2-120		%REC	182226	10	10/11/2013 22:53	AK
Surr: 4-Bromofluorobenzene	90.1	66.2-120		%REC	182226	1	10/11/2013 00:06	AR
Surr: Dibromofluoromethane	93.3	79.5-121		%REC	182226	1	10/11/2013 00:06	AR
Surr: Dibromofluoromethane	94.1	79.5-121		%REC	182226	10	10/11/2013 22:53	AK
Surr: Toluene-d8	96.1	77-117		%REC	182226	10	10/11/2013 22:53	AK
Surr: Toluene-d8	98.4	77-117		%REC	182226	1	10/11/2013 00:06	AR
METALS, DISSOLVED SW6010C				(SW3005A)				
Lead	BRL	0.0100		mg/L	182234	1	10/14/2013 11:28	JL
METALS, TOTAL SW6010C				(SW3010A)				
Lead	0.0279	0.0100		mg/L	182188	1	10/10/2013 23:02	MR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: MW-30 (100813)
Project Name: Lafarge EP	Collection Date: 10/8/2013 9:35:00 AM
Lab ID: 1310746-004	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5030B)			
1,1,1-Trichloroethane	BRL	5.0		ug/L	182226	1	10/11/2013 00:36	AR
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	182226	1	10/11/2013 00:36	AR
1,1,2-Trichloroethane	BRL	5.0		ug/L	182226	1	10/11/2013 00:36	AR
1,1-Dichloroethane	BRL	5.0		ug/L	182226	1	10/11/2013 00:36	AR
1,1-Dichloroethene	BRL	5.0		ug/L	182226	1	10/11/2013 00:36	AR
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	182226	1	10/11/2013 00:36	AR
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	182226	1	10/11/2013 00:36	AR
1,2-Dibromoethane	BRL	5.0		ug/L	182226	1	10/11/2013 00:36	AR
1,2-Dichlorobenzene	BRL	5.0		ug/L	182226	1	10/11/2013 00:36	AR
1,2-Dichloroethane	BRL	5.0		ug/L	182226	1	10/11/2013 00:36	AR
1,2-Dichloropropane	BRL	5.0		ug/L	182226	1	10/11/2013 00:36	AR
1,3-Dichlorobenzene	BRL	5.0		ug/L	182226	1	10/11/2013 00:36	AR
1,4-Dichlorobenzene	BRL	5.0		ug/L	182226	1	10/11/2013 00:36	AR
2-Butanone	BRL	50		ug/L	182226	1	10/11/2013 00:36	AR
2-Hexanone	BRL	10		ug/L	182226	1	10/11/2013 00:36	AR
4-Methyl-2-pentanone	BRL	10		ug/L	182226	1	10/11/2013 00:36	AR
Acetone	BRL	50		ug/L	182226	1	10/11/2013 00:36	AR
Benzene	BRL	5.0		ug/L	182226	1	10/11/2013 00:36	AR
Bromodichloromethane	BRL	5.0		ug/L	182226	1	10/11/2013 00:36	AR
Bromoform	BRL	5.0		ug/L	182226	1	10/11/2013 00:36	AR
Bromomethane	BRL	5.0		ug/L	182226	1	10/11/2013 00:36	AR
Carbon disulfide	BRL	5.0		ug/L	182226	1	10/11/2013 00:36	AR
Carbon tetrachloride	BRL	5.0		ug/L	182226	1	10/11/2013 00:36	AR
Chlorobenzene	BRL	5.0		ug/L	182226	1	10/11/2013 00:36	AR
Chloroethane	BRL	10		ug/L	182226	1	10/11/2013 00:36	AR
Chloroform	BRL	5.0		ug/L	182226	1	10/11/2013 00:36	AR
Chloromethane	BRL	10		ug/L	182226	1	10/11/2013 00:36	AR
cis-1,2-Dichloroethene	BRL	5.0		ug/L	182226	1	10/11/2013 00:36	AR
cis-1,3-Dichloropropene	BRL	5.0		ug/L	182226	1	10/11/2013 00:36	AR
Cyclohexane	BRL	5.0		ug/L	182226	1	10/11/2013 00:36	AR
Dibromochloromethane	BRL	5.0		ug/L	182226	1	10/11/2013 00:36	AR
Dichlorodifluoromethane	BRL	10		ug/L	182226	1	10/11/2013 00:36	AR
Ethylbenzene	BRL	5.0		ug/L	182226	1	10/11/2013 00:36	AR
Freon-113	BRL	10		ug/L	182226	1	10/11/2013 00:36	AR
Isopropylbenzene	BRL	5.0		ug/L	182226	1	10/11/2013 00:36	AR
m,p-Xylene	BRL	5.0		ug/L	182226	1	10/11/2013 00:36	AR
Methyl acetate	BRL	5.0		ug/L	182226	1	10/11/2013 00:36	AR
Methyl tert-butyl ether	BRL	5.0		ug/L	182226	1	10/11/2013 00:36	AR
Methylcyclohexane	8.6	5.0		ug/L	182226	1	10/11/2013 00:36	AR
Methylene chloride	BRL	5.0		ug/L	182226	1	10/11/2013 00:36	AR
o-Xylene	BRL	5.0		ug/L	182226	1	10/11/2013 00:36	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: MW-30 (100813)
Project Name: Lafarge EP	Collection Date: 10/8/2013 9:35:00 AM
Lab ID: 1310746-004	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5030B)			
Styrene	BRL	5.0		ug/L	182226	1	10/11/2013 00:36	AR
Tetrachloroethene	BRL	5.0		ug/L	182226	1	10/11/2013 00:36	AR
Toluene	BRL	5.0		ug/L	182226	1	10/11/2013 00:36	AR
trans-1,2-Dichloroethene	BRL	5.0		ug/L	182226	1	10/11/2013 00:36	AR
trans-1,3-Dichloropropene	BRL	5.0		ug/L	182226	1	10/11/2013 00:36	AR
Trichloroethene	BRL	5.0		ug/L	182226	1	10/11/2013 00:36	AR
Trichlorofluoromethane	BRL	5.0		ug/L	182226	1	10/11/2013 00:36	AR
Vinyl chloride	2.1	2.0		ug/L	182226	1	10/11/2013 00:36	AR
Surr: 4-Bromofluorobenzene	86.4	66.2-120		%REC	182226	1	10/11/2013 00:36	AR
Surr: Dibromofluoromethane	98.7	79.5-121		%REC	182226	1	10/11/2013 00:36	AR
Surr: Toluene-d8	97.3	77-117		%REC	182226	1	10/11/2013 00:36	AR
METALS, DISSOLVED SW6010C					(SW3005A)			
Lead	BRL	0.0100		mg/L	182234	1	10/14/2013 11:38	JL
METALS, TOTAL SW6010C					(SW3010A)			
Lead	BRL	0.0100		mg/L	182188	1	10/10/2013 23:06	MR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: MW-31 (100813)
Project Name: Lafarge EP	Collection Date: 10/8/2013 10:35:00 AM
Lab ID: 1310746-005	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	182226	1	10/11/2013 01:05	AR
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	182226	1	10/11/2013 01:05	AR
1,1,2-Trichloroethane	BRL	5.0		ug/L	182226	1	10/11/2013 01:05	AR
1,1-Dichloroethane	BRL	5.0		ug/L	182226	1	10/11/2013 01:05	AR
1,1-Dichloroethene	BRL	5.0		ug/L	182226	1	10/11/2013 01:05	AR
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	182226	1	10/11/2013 01:05	AR
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	182226	1	10/11/2013 01:05	AR
1,2-Dibromoethane	BRL	5.0		ug/L	182226	1	10/11/2013 01:05	AR
1,2-Dichlorobenzene	BRL	5.0		ug/L	182226	1	10/11/2013 01:05	AR
1,2-Dichloroethane	BRL	5.0		ug/L	182226	1	10/11/2013 01:05	AR
1,2-Dichloropropane	BRL	5.0		ug/L	182226	1	10/11/2013 01:05	AR
1,3-Dichlorobenzene	BRL	5.0		ug/L	182226	1	10/11/2013 01:05	AR
1,4-Dichlorobenzene	BRL	5.0		ug/L	182226	1	10/11/2013 01:05	AR
2-Butanone	BRL	50		ug/L	182226	1	10/11/2013 01:05	AR
2-Hexanone	BRL	10		ug/L	182226	1	10/11/2013 01:05	AR
4-Methyl-2-pentanone	BRL	10		ug/L	182226	1	10/11/2013 01:05	AR
Acetone	BRL	50		ug/L	182226	1	10/11/2013 01:05	AR
Benzene	BRL	5.0		ug/L	182226	1	10/11/2013 01:05	AR
Bromodichloromethane	BRL	5.0		ug/L	182226	1	10/11/2013 01:05	AR
Bromoform	BRL	5.0		ug/L	182226	1	10/11/2013 01:05	AR
Bromomethane	BRL	5.0		ug/L	182226	1	10/11/2013 01:05	AR
Carbon disulfide	BRL	5.0		ug/L	182226	1	10/11/2013 01:05	AR
Carbon tetrachloride	BRL	5.0		ug/L	182226	1	10/11/2013 01:05	AR
Chlorobenzene	BRL	5.0		ug/L	182226	1	10/11/2013 01:05	AR
Chloroethane	BRL	10		ug/L	182226	1	10/11/2013 01:05	AR
Chloroform	BRL	5.0		ug/L	182226	1	10/11/2013 01:05	AR
Chloromethane	BRL	10		ug/L	182226	1	10/11/2013 01:05	AR
cis-1,2-Dichloroethene	8.4	5.0		ug/L	182226	1	10/11/2013 01:05	AR
cis-1,3-Dichloropropene	BRL	5.0		ug/L	182226	1	10/11/2013 01:05	AR
Cyclohexane	BRL	5.0		ug/L	182226	1	10/11/2013 01:05	AR
Dibromochloromethane	BRL	5.0		ug/L	182226	1	10/11/2013 01:05	AR
Dichlorodifluoromethane	BRL	10		ug/L	182226	1	10/11/2013 01:05	AR
Ethylbenzene	BRL	5.0		ug/L	182226	1	10/11/2013 01:05	AR
Freon-113	BRL	10		ug/L	182226	1	10/11/2013 01:05	AR
Isopropylbenzene	BRL	5.0		ug/L	182226	1	10/11/2013 01:05	AR
m,p-Xylene	BRL	5.0		ug/L	182226	1	10/11/2013 01:05	AR
Methyl acetate	BRL	5.0		ug/L	182226	1	10/11/2013 01:05	AR
Methyl tert-butyl ether	BRL	5.0		ug/L	182226	1	10/11/2013 01:05	AR
Methylcyclohexane	BRL	5.0		ug/L	182226	1	10/11/2013 01:05	AR
Methylene chloride	BRL	5.0		ug/L	182226	1	10/11/2013 01:05	AR
o-Xylene	BRL	5.0		ug/L	182226	1	10/11/2013 01:05	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: MW-31 (100813)
Project Name: Lafarge EP	Collection Date: 10/8/2013 10:35:00 AM
Lab ID: 1310746-005	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5030B)			
Styrene	BRL	5.0		ug/L	182226	1	10/11/2013 01:05	AR
Tetrachloroethene	BRL	5.0		ug/L	182226	1	10/11/2013 01:05	AR
Toluene	BRL	5.0		ug/L	182226	1	10/11/2013 01:05	AR
trans-1,2-Dichloroethene	BRL	5.0		ug/L	182226	1	10/11/2013 01:05	AR
trans-1,3-Dichloropropene	BRL	5.0		ug/L	182226	1	10/11/2013 01:05	AR
Trichloroethene	BRL	5.0		ug/L	182226	1	10/11/2013 01:05	AR
Trichlorofluoromethane	BRL	5.0		ug/L	182226	1	10/11/2013 01:05	AR
Vinyl chloride	24	2.0		ug/L	182226	1	10/11/2013 01:05	AR
Surr: 4-Bromofluorobenzene	79.5	66.2-120		%REC	182226	1	10/11/2013 01:05	AR
Surr: Dibromofluoromethane	95.2	79.5-121		%REC	182226	1	10/11/2013 01:05	AR
Surr: Toluene-d8	98.8	77-117		%REC	182226	1	10/11/2013 01:05	AR
METALS, DISSOLVED SW6010C					(SW3005A)			
Lead	BRL	0.0100		mg/L	182234	1	10/14/2013 11:48	JL
METALS, TOTAL SW6010C					(SW3010A)			
Lead	BRL	0.0100		mg/L	182188	1	10/10/2013 23:10	MR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: MW-3 (100813)
Project Name: Lafarge EP	Collection Date: 10/8/2013 12:05:00 PM
Lab ID: 1310746-006	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	182226	1	10/11/2013 01:35	AR
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	182226	1	10/11/2013 01:35	AR
1,1,2-Trichloroethane	BRL	5.0		ug/L	182226	1	10/11/2013 01:35	AR
1,1-Dichloroethane	BRL	5.0		ug/L	182226	1	10/11/2013 01:35	AR
1,1-Dichloroethene	BRL	5.0		ug/L	182226	1	10/11/2013 01:35	AR
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	182226	1	10/11/2013 01:35	AR
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	182226	1	10/11/2013 01:35	AR
1,2-Dibromoethane	BRL	5.0		ug/L	182226	1	10/11/2013 01:35	AR
1,2-Dichlorobenzene	BRL	5.0		ug/L	182226	1	10/11/2013 01:35	AR
1,2-Dichloroethane	BRL	5.0		ug/L	182226	1	10/11/2013 01:35	AR
1,2-Dichloropropane	BRL	5.0		ug/L	182226	1	10/11/2013 01:35	AR
1,3-Dichlorobenzene	BRL	5.0		ug/L	182226	1	10/11/2013 01:35	AR
1,4-Dichlorobenzene	BRL	5.0		ug/L	182226	1	10/11/2013 01:35	AR
2-Butanone	BRL	50		ug/L	182226	1	10/11/2013 01:35	AR
2-Hexanone	BRL	10		ug/L	182226	1	10/11/2013 01:35	AR
4-Methyl-2-pentanone	BRL	10		ug/L	182226	1	10/11/2013 01:35	AR
Acetone	BRL	50		ug/L	182226	1	10/11/2013 01:35	AR
Benzene	8.7	5.0		ug/L	182226	1	10/11/2013 01:35	AR
Bromodichloromethane	BRL	5.0		ug/L	182226	1	10/11/2013 01:35	AR
Bromoform	BRL	5.0		ug/L	182226	1	10/11/2013 01:35	AR
Bromomethane	BRL	5.0		ug/L	182226	1	10/11/2013 01:35	AR
Carbon disulfide	BRL	5.0		ug/L	182226	1	10/11/2013 01:35	AR
Carbon tetrachloride	BRL	5.0		ug/L	182226	1	10/11/2013 01:35	AR
Chlorobenzene	BRL	5.0		ug/L	182226	1	10/11/2013 01:35	AR
Chloroethane	BRL	10		ug/L	182226	1	10/11/2013 01:35	AR
Chloroform	BRL	5.0		ug/L	182226	1	10/11/2013 01:35	AR
Chloromethane	BRL	10		ug/L	182226	1	10/11/2013 01:35	AR
cis-1,2-Dichloroethene	43	5.0		ug/L	182226	1	10/11/2013 01:35	AR
cis-1,3-Dichloropropene	BRL	5.0		ug/L	182226	1	10/11/2013 01:35	AR
Cyclohexane	BRL	5.0		ug/L	182226	1	10/11/2013 01:35	AR
Dibromochloromethane	BRL	5.0		ug/L	182226	1	10/11/2013 01:35	AR
Dichlorodifluoromethane	BRL	10		ug/L	182226	1	10/11/2013 01:35	AR
Ethylbenzene	BRL	5.0		ug/L	182226	1	10/11/2013 01:35	AR
Freon-113	BRL	10		ug/L	182226	1	10/11/2013 01:35	AR
Isopropylbenzene	BRL	5.0		ug/L	182226	1	10/11/2013 01:35	AR
m,p-Xylene	BRL	5.0		ug/L	182226	1	10/11/2013 01:35	AR
Methyl acetate	BRL	5.0		ug/L	182226	1	10/11/2013 01:35	AR
Methyl tert-butyl ether	BRL	5.0		ug/L	182226	1	10/11/2013 01:35	AR
Methylcyclohexane	BRL	5.0		ug/L	182226	1	10/11/2013 01:35	AR
Methylene chloride	BRL	5.0		ug/L	182226	1	10/11/2013 01:35	AR
o-Xylene	BRL	5.0		ug/L	182226	1	10/11/2013 01:35	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: MW-3 (100813)
Project Name: Lafarge EP	Collection Date: 10/8/2013 12:05:00 PM
Lab ID: 1310746-006	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5030B)			
Styrene	BRL	5.0		ug/L	182226	1	10/11/2013 01:35	AR
Tetrachloroethene	BRL	5.0		ug/L	182226	1	10/11/2013 01:35	AR
Toluene	BRL	5.0		ug/L	182226	1	10/11/2013 01:35	AR
trans-1,2-Dichloroethene	BRL	5.0		ug/L	182226	1	10/11/2013 01:35	AR
trans-1,3-Dichloropropene	BRL	5.0		ug/L	182226	1	10/11/2013 01:35	AR
Trichloroethene	7.8	5.0		ug/L	182226	1	10/11/2013 01:35	AR
Trichlorofluoromethane	BRL	5.0		ug/L	182226	1	10/11/2013 01:35	AR
Vinyl chloride	7.8	2.0		ug/L	182226	1	10/11/2013 01:35	AR
Surr: 4-Bromofluorobenzene	81.1	66.2-120		%REC	182226	1	10/11/2013 01:35	AR
Surr: Dibromofluoromethane	92.7	79.5-121		%REC	182226	1	10/11/2013 01:35	AR
Surr: Toluene-d8	94.2	77-117		%REC	182226	1	10/11/2013 01:35	AR
METALS, DISSOLVED SW6010C					(SW3005A)			
Lead	BRL	0.0100		mg/L	182234	1	10/14/2013 14:30	JL
METALS, TOTAL SW6010C					(SW3010A)			
Lead	BRL	0.0100		mg/L	182188	1	10/10/2013 23:14	MR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: MW-4 (100813)
Project Name: Lafarge EP	Collection Date: 10/8/2013 12:45:00 PM
Lab ID: 1310746-007	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	182226	1	10/11/2013 02:05	AR
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	182226	1	10/11/2013 02:05	AR
1,1,2-Trichloroethane	BRL	5.0		ug/L	182226	1	10/11/2013 02:05	AR
1,1-Dichloroethane	BRL	5.0		ug/L	182226	1	10/11/2013 02:05	AR
1,1-Dichloroethene	BRL	5.0		ug/L	182226	1	10/11/2013 02:05	AR
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	182226	1	10/11/2013 02:05	AR
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	182226	1	10/11/2013 02:05	AR
1,2-Dibromoethane	BRL	5.0		ug/L	182226	1	10/11/2013 02:05	AR
1,2-Dichlorobenzene	BRL	5.0		ug/L	182226	1	10/11/2013 02:05	AR
1,2-Dichloroethane	BRL	5.0		ug/L	182226	1	10/11/2013 02:05	AR
1,2-Dichloropropane	BRL	5.0		ug/L	182226	1	10/11/2013 02:05	AR
1,3-Dichlorobenzene	BRL	5.0		ug/L	182226	1	10/11/2013 02:05	AR
1,4-Dichlorobenzene	BRL	5.0		ug/L	182226	1	10/11/2013 02:05	AR
2-Butanone	BRL	50		ug/L	182226	1	10/11/2013 02:05	AR
2-Hexanone	BRL	10		ug/L	182226	1	10/11/2013 02:05	AR
4-Methyl-2-pentanone	BRL	10		ug/L	182226	1	10/11/2013 02:05	AR
Acetone	BRL	50		ug/L	182226	1	10/11/2013 02:05	AR
Benzene	BRL	5.0		ug/L	182226	1	10/11/2013 02:05	AR
Bromodichloromethane	BRL	5.0		ug/L	182226	1	10/11/2013 02:05	AR
Bromoform	BRL	5.0		ug/L	182226	1	10/11/2013 02:05	AR
Bromomethane	BRL	5.0		ug/L	182226	1	10/11/2013 02:05	AR
Carbon disulfide	BRL	5.0		ug/L	182226	1	10/11/2013 02:05	AR
Carbon tetrachloride	BRL	5.0		ug/L	182226	1	10/11/2013 02:05	AR
Chlorobenzene	BRL	5.0		ug/L	182226	1	10/11/2013 02:05	AR
Chloroethane	BRL	10		ug/L	182226	1	10/11/2013 02:05	AR
Chloroform	BRL	5.0		ug/L	182226	1	10/11/2013 02:05	AR
Chloromethane	BRL	10		ug/L	182226	1	10/11/2013 02:05	AR
cis-1,2-Dichloroethene	38	5.0		ug/L	182226	1	10/11/2013 02:05	AR
cis-1,3-Dichloropropene	BRL	5.0		ug/L	182226	1	10/11/2013 02:05	AR
Cyclohexane	BRL	5.0		ug/L	182226	1	10/11/2013 02:05	AR
Dibromochloromethane	BRL	5.0		ug/L	182226	1	10/11/2013 02:05	AR
Dichlorodifluoromethane	BRL	10		ug/L	182226	1	10/11/2013 02:05	AR
Ethylbenzene	BRL	5.0		ug/L	182226	1	10/11/2013 02:05	AR
Freon-113	BRL	10		ug/L	182226	1	10/11/2013 02:05	AR
Isopropylbenzene	BRL	5.0		ug/L	182226	1	10/11/2013 02:05	AR
m,p-Xylene	BRL	5.0		ug/L	182226	1	10/11/2013 02:05	AR
Methyl acetate	BRL	5.0		ug/L	182226	1	10/11/2013 02:05	AR
Methyl tert-butyl ether	BRL	5.0		ug/L	182226	1	10/11/2013 02:05	AR
Methylcyclohexane	BRL	5.0		ug/L	182226	1	10/11/2013 02:05	AR
Methylene chloride	BRL	5.0		ug/L	182226	1	10/11/2013 02:05	AR
o-Xylene	BRL	5.0		ug/L	182226	1	10/11/2013 02:05	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: MW-4 (100813)
Project Name: Lafarge EP	Collection Date: 10/8/2013 12:45:00 PM
Lab ID: 1310746-007	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	182226	1	10/11/2013 02:05	AR
Tetrachloroethene	BRL	5.0		ug/L	182226	1	10/11/2013 02:05	AR
Toluene	9.4	5.0		ug/L	182226	1	10/11/2013 02:05	AR
trans-1,2-Dichloroethene	BRL	5.0		ug/L	182226	1	10/11/2013 02:05	AR
trans-1,3-Dichloropropene	BRL	5.0		ug/L	182226	1	10/11/2013 02:05	AR
Trichloroethene	6.2	5.0		ug/L	182226	1	10/11/2013 02:05	AR
Trichlorofluoromethane	BRL	5.0		ug/L	182226	1	10/11/2013 02:05	AR
Vinyl chloride	BRL	2.0		ug/L	182226	1	10/11/2013 02:05	AR
Surr: 4-Bromofluorobenzene	81.3	66.2-120		%REC	182226	1	10/11/2013 02:05	AR
Surr: Dibromofluoromethane	93.1	79.5-121		%REC	182226	1	10/11/2013 02:05	AR
Surr: Toluene-d8	94.6	77-117		%REC	182226	1	10/11/2013 02:05	AR
METALS, DISSOLVED SW6010C				(SW3005A)				
Lead	BRL	0.0100		mg/L	182234	1	10/14/2013 14:34	JL
METALS, TOTAL SW6010C				(SW3010A)				
Lead	0.0141	0.0100		mg/L	182188	1	10/10/2013 23:18	MR

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Client: Arcadis
 Project Name: Lafarge EP
 Lab ID: 1310746-008

Client Sample ID: MW-33 (100813)
 Collection Date: 10/8/2013 1:50:00 PM
 Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	182226	1	10/11/2013 02:34	AR
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	182226	1	10/11/2013 02:34	AR
1,1,2-Trichloroethane	BRL	5.0		ug/L	182226	1	10/11/2013 02:34	AR
1,1-Dichloroethane	BRL	5.0		ug/L	182226	1	10/11/2013 02:34	AR
1,1-Dichloroethene	BRL	5.0		ug/L	182226	1	10/11/2013 02:34	AR
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	182226	1	10/11/2013 02:34	AR
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	182226	1	10/11/2013 02:34	AR
1,2-Dibromoethane	BRL	5.0		ug/L	182226	1	10/11/2013 02:34	AR
1,2-Dichlorobenzene	BRL	5.0		ug/L	182226	1	10/11/2013 02:34	AR
1,2-Dichloroethane	BRL	5.0		ug/L	182226	1	10/11/2013 02:34	AR
1,2-Dichloropropane	BRL	5.0		ug/L	182226	1	10/11/2013 02:34	AR
1,3-Dichlorobenzene	BRL	5.0		ug/L	182226	1	10/11/2013 02:34	AR
1,4-Dichlorobenzene	BRL	5.0		ug/L	182226	1	10/11/2013 02:34	AR
2-Butanone	BRL	50		ug/L	182226	1	10/11/2013 02:34	AR
2-Hexanone	BRL	10		ug/L	182226	1	10/11/2013 02:34	AR
4-Methyl-2-pentanone	BRL	10		ug/L	182226	1	10/11/2013 02:34	AR
Acetone	BRL	50		ug/L	182226	1	10/11/2013 02:34	AR
Benzene	BRL	5.0		ug/L	182226	1	10/11/2013 02:34	AR
Bromodichloromethane	BRL	5.0		ug/L	182226	1	10/11/2013 02:34	AR
Bromoform	BRL	5.0		ug/L	182226	1	10/11/2013 02:34	AR
Bromomethane	BRL	5.0		ug/L	182226	1	10/11/2013 02:34	AR
Carbon disulfide	BRL	5.0		ug/L	182226	1	10/11/2013 02:34	AR
Carbon tetrachloride	BRL	5.0		ug/L	182226	1	10/11/2013 02:34	AR
Chlorobenzene	BRL	5.0		ug/L	182226	1	10/11/2013 02:34	AR
Chloroethane	BRL	10		ug/L	182226	1	10/11/2013 02:34	AR
Chloroform	BRL	5.0		ug/L	182226	1	10/11/2013 02:34	AR
Chloromethane	BRL	10		ug/L	182226	1	10/11/2013 02:34	AR
cis-1,2-Dichloroethene	1100	50		ug/L	182226	10	10/11/2013 22:24	AK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	182226	1	10/11/2013 02:34	AR
Cyclohexane	55	5.0		ug/L	182226	1	10/11/2013 02:34	AR
Dibromochloromethane	BRL	5.0		ug/L	182226	1	10/11/2013 02:34	AR
Dichlorodifluoromethane	BRL	10		ug/L	182226	1	10/11/2013 02:34	AR
Ethylbenzene	170	5.0		ug/L	182226	1	10/11/2013 02:34	AR
Freon-113	BRL	10		ug/L	182226	1	10/11/2013 02:34	AR
Isopropylbenzene	BRL	5.0		ug/L	182226	1	10/11/2013 02:34	AR
m,p-Xylene	270	5.0		ug/L	182226	1	10/11/2013 02:34	AR
Methyl acetate	BRL	5.0		ug/L	182226	1	10/11/2013 02:34	AR
Methyl tert-butyl ether	BRL	5.0		ug/L	182226	1	10/11/2013 02:34	AR
Methylcyclohexane	120	5.0		ug/L	182226	1	10/11/2013 02:34	AR
Methylene chloride	BRL	5.0		ug/L	182226	1	10/11/2013 02:34	AR
o-Xylene	180	5.0		ug/L	182226	1	10/11/2013 02:34	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: MW-33 (100813)
Project Name: Lafarge EP	Collection Date: 10/8/2013 1:50:00 PM
Lab ID: 1310746-008	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5030B)			
Styrene	BRL	5.0		ug/L	182226	1	10/11/2013 02:34	AR
Tetrachloroethene	BRL	5.0		ug/L	182226	1	10/11/2013 02:34	AR
Toluene	840	50		ug/L	182226	10	10/11/2013 22:24	AK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	182226	1	10/11/2013 02:34	AR
trans-1,3-Dichloropropene	BRL	5.0		ug/L	182226	1	10/11/2013 02:34	AR
Trichloroethene	BRL	5.0		ug/L	182226	1	10/11/2013 02:34	AR
Trichlorofluoromethane	BRL	5.0		ug/L	182226	1	10/11/2013 02:34	AR
Vinyl chloride	350	20		ug/L	182226	10	10/11/2013 22:24	AK
Surr: 4-Bromofluorobenzene	90.4	66.2-120		%REC	182226	10	10/11/2013 22:24	AK
Surr: 4-Bromofluorobenzene	92.1	66.2-120		%REC	182226	1	10/11/2013 02:34	AR
Surr: Dibromofluoromethane	97.4	79.5-121		%REC	182226	10	10/11/2013 22:24	AK
Surr: Dibromofluoromethane	86.6	79.5-121		%REC	182226	1	10/11/2013 02:34	AR
Surr: Toluene-d8	97.5	77-117		%REC	182226	1	10/11/2013 02:34	AR
Surr: Toluene-d8	97.4	77-117		%REC	182226	10	10/11/2013 22:24	AK
METALS, DISSOLVED SW6010C					(SW3005A)			
Lead	BRL	0.0100		mg/L	182234	1	10/14/2013 14:38	JL
METALS, TOTAL SW6010C					(SW3010A)			
Lead	BRL	0.0100		mg/L	182188	1	10/10/2013 23:28	MR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: TRIP BLANK
Project Name: Lafarge EP	Collection Date: 10/8/2013
Lab ID: 1310746-009	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	182226	1	10/10/2013 20:11	AR
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	182226	1	10/10/2013 20:11	AR
1,1,2-Trichloroethane	BRL	5.0		ug/L	182226	1	10/10/2013 20:11	AR
1,1-Dichloroethane	BRL	5.0		ug/L	182226	1	10/10/2013 20:11	AR
1,1-Dichloroethene	BRL	5.0		ug/L	182226	1	10/10/2013 20:11	AR
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	182226	1	10/10/2013 20:11	AR
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	182226	1	10/10/2013 20:11	AR
1,2-Dibromoethane	BRL	5.0		ug/L	182226	1	10/10/2013 20:11	AR
1,2-Dichlorobenzene	BRL	5.0		ug/L	182226	1	10/10/2013 20:11	AR
1,2-Dichloroethane	BRL	5.0		ug/L	182226	1	10/10/2013 20:11	AR
1,2-Dichloropropane	BRL	5.0		ug/L	182226	1	10/10/2013 20:11	AR
1,3-Dichlorobenzene	BRL	5.0		ug/L	182226	1	10/10/2013 20:11	AR
1,4-Dichlorobenzene	BRL	5.0		ug/L	182226	1	10/10/2013 20:11	AR
2-Butanone	BRL	50		ug/L	182226	1	10/10/2013 20:11	AR
2-Hexanone	BRL	10		ug/L	182226	1	10/10/2013 20:11	AR
4-Methyl-2-pentanone	BRL	10		ug/L	182226	1	10/10/2013 20:11	AR
Acetone	BRL	50		ug/L	182226	1	10/10/2013 20:11	AR
Benzene	BRL	5.0		ug/L	182226	1	10/10/2013 20:11	AR
Bromodichloromethane	BRL	5.0		ug/L	182226	1	10/10/2013 20:11	AR
Bromoform	BRL	5.0		ug/L	182226	1	10/10/2013 20:11	AR
Bromomethane	BRL	5.0		ug/L	182226	1	10/10/2013 20:11	AR
Carbon disulfide	BRL	5.0		ug/L	182226	1	10/10/2013 20:11	AR
Carbon tetrachloride	BRL	5.0		ug/L	182226	1	10/10/2013 20:11	AR
Chlorobenzene	BRL	5.0		ug/L	182226	1	10/10/2013 20:11	AR
Chloroethane	BRL	10		ug/L	182226	1	10/10/2013 20:11	AR
Chloroform	BRL	5.0		ug/L	182226	1	10/10/2013 20:11	AR
Chloromethane	BRL	10		ug/L	182226	1	10/10/2013 20:11	AR
cis-1,2-Dichloroethene	BRL	5.0		ug/L	182226	1	10/10/2013 20:11	AR
cis-1,3-Dichloropropene	BRL	5.0		ug/L	182226	1	10/10/2013 20:11	AR
Cyclohexane	BRL	5.0		ug/L	182226	1	10/10/2013 20:11	AR
Dibromochloromethane	BRL	5.0		ug/L	182226	1	10/10/2013 20:11	AR
Dichlorodifluoromethane	BRL	10		ug/L	182226	1	10/10/2013 20:11	AR
Ethylbenzene	BRL	5.0		ug/L	182226	1	10/10/2013 20:11	AR
Freon-113	BRL	10		ug/L	182226	1	10/10/2013 20:11	AR
Isopropylbenzene	BRL	5.0		ug/L	182226	1	10/10/2013 20:11	AR
m,p-Xylene	BRL	5.0		ug/L	182226	1	10/10/2013 20:11	AR
Methyl acetate	BRL	5.0		ug/L	182226	1	10/10/2013 20:11	AR
Methyl tert-butyl ether	BRL	5.0		ug/L	182226	1	10/10/2013 20:11	AR
Methylcyclohexane	BRL	5.0		ug/L	182226	1	10/10/2013 20:11	AR
Methylene chloride	BRL	5.0		ug/L	182226	1	10/10/2013 20:11	AR
o-Xylene	BRL	5.0		ug/L	182226	1	10/10/2013 20:11	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: TRIP BLANK
Project Name: Lafarge EP	Collection Date: 10/8/2013
Lab ID: 1310746-009	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	182226	1	10/10/2013 20:11	AR
Tetrachloroethene	BRL	5.0		ug/L	182226	1	10/10/2013 20:11	AR
Toluene	BRL	5.0		ug/L	182226	1	10/10/2013 20:11	AR
trans-1,2-Dichloroethene	BRL	5.0		ug/L	182226	1	10/10/2013 20:11	AR
trans-1,3-Dichloropropene	BRL	5.0		ug/L	182226	1	10/10/2013 20:11	AR
Trichloroethene	BRL	5.0		ug/L	182226	1	10/10/2013 20:11	AR
Trichlorofluoromethane	BRL	5.0		ug/L	182226	1	10/10/2013 20:11	AR
Vinyl chloride	BRL	2.0		ug/L	182226	1	10/10/2013 20:11	AR
Surr: 4-Bromofluorobenzene	84.4	66.2-120		%REC	182226	1	10/10/2013 20:11	AR
Surr: Dibromofluoromethane	105	79.5-121		%REC	182226	1	10/10/2013 20:11	AR
Surr: Toluene-d8	97.2	77-117		%REC	182226	1	10/10/2013 20:11	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: MW-32 (100813)
Project Name: Lafarge EP	Collection Date: 10/8/2013 2:05:00 PM
Lab ID: 1310746-010	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B		(SW5030B)						
1,1,1-Trichloroethane	30	5.0		ug/L	182226	1	10/11/2013 03:04	AR
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	182226	1	10/11/2013 03:04	AR
1,1,2-Trichloroethane	BRL	5.0		ug/L	182226	1	10/11/2013 03:04	AR
1,1-Dichloroethane	BRL	5.0		ug/L	182226	1	10/11/2013 03:04	AR
1,1-Dichloroethene	15	5.0		ug/L	182226	1	10/11/2013 03:04	AR
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	182226	1	10/11/2013 03:04	AR
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	182226	1	10/11/2013 03:04	AR
1,2-Dibromoethane	BRL	5.0		ug/L	182226	1	10/11/2013 03:04	AR
1,2-Dichlorobenzene	BRL	5.0		ug/L	182226	1	10/11/2013 03:04	AR
1,2-Dichloroethane	BRL	5.0		ug/L	182226	1	10/11/2013 03:04	AR
1,2-Dichloropropane	BRL	5.0		ug/L	182226	1	10/11/2013 03:04	AR
1,3-Dichlorobenzene	BRL	5.0		ug/L	182226	1	10/11/2013 03:04	AR
1,4-Dichlorobenzene	BRL	5.0		ug/L	182226	1	10/11/2013 03:04	AR
2-Butanone	BRL	50		ug/L	182226	1	10/11/2013 03:04	AR
2-Hexanone	BRL	10		ug/L	182226	1	10/11/2013 03:04	AR
4-Methyl-2-pentanone	16	10		ug/L	182226	1	10/11/2013 03:04	AR
Acetone	BRL	50		ug/L	182226	1	10/11/2013 03:04	AR
Benzene	BRL	5.0		ug/L	182226	1	10/11/2013 03:04	AR
Bromodichloromethane	BRL	5.0		ug/L	182226	1	10/11/2013 03:04	AR
Bromoform	BRL	5.0		ug/L	182226	1	10/11/2013 03:04	AR
Bromomethane	BRL	5.0		ug/L	182226	1	10/11/2013 03:04	AR
Carbon disulfide	BRL	5.0		ug/L	182226	1	10/11/2013 03:04	AR
Carbon tetrachloride	8.2	5.0		ug/L	182226	1	10/11/2013 03:04	AR
Chlorobenzene	BRL	5.0		ug/L	182226	1	10/11/2013 03:04	AR
Chloroethane	BRL	10		ug/L	182226	1	10/11/2013 03:04	AR
Chloroform	BRL	5.0		ug/L	182226	1	10/11/2013 03:04	AR
Chloromethane	BRL	10		ug/L	182226	1	10/11/2013 03:04	AR
cis-1,2-Dichloroethene	6.5	5.0		ug/L	182226	1	10/11/2013 03:04	AR
cis-1,3-Dichloropropene	BRL	5.0		ug/L	182226	1	10/11/2013 03:04	AR
Cyclohexane	22	5.0		ug/L	182226	1	10/11/2013 03:04	AR
Dibromochloromethane	BRL	5.0		ug/L	182226	1	10/11/2013 03:04	AR
Dichlorodifluoromethane	BRL	10		ug/L	182226	1	10/11/2013 03:04	AR
Ethylbenzene	280	100		ug/L	182226	20	10/11/2013 21:56	AK
Freon-113	BRL	10		ug/L	182226	1	10/11/2013 03:04	AR
Isopropylbenzene	7.5	5.0		ug/L	182226	1	10/11/2013 03:04	AR
m,p-Xylene	1100	100		ug/L	182226	20	10/11/2013 21:56	AK
Methyl acetate	BRL	5.0		ug/L	182226	1	10/11/2013 03:04	AR
Methyl tert-butyl ether	BRL	5.0		ug/L	182226	1	10/11/2013 03:04	AR
Methylcyclohexane	BRL	5.0		ug/L	182226	1	10/11/2013 03:04	AR
Methylene chloride	10.0	5.0		ug/L	182226	1	10/11/2013 03:04	AR
o-Xylene	290	100		ug/L	182226	20	10/11/2013 21:56	AK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: MW-32 (100813)
Project Name: Lafarge EP	Collection Date: 10/8/2013 2:05:00 PM
Lab ID: 1310746-010	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5030B)			
Styrene	BRL	5.0		ug/L	182226	1	10/11/2013 03:04	AR
Tetrachloroethene	17	5.0		ug/L	182226	1	10/11/2013 03:04	AR
Toluene	3900	2500		ug/L	182226	500	10/11/2013 19:34	AK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	182226	1	10/11/2013 03:04	AR
trans-1,3-Dichloropropene	BRL	5.0		ug/L	182226	1	10/11/2013 03:04	AR
Trichloroethene	170000	10000		ug/L	182226	2000	10/14/2013 15:43	AK
Trichlorofluoromethane	BRL	5.0		ug/L	182226	1	10/11/2013 03:04	AR
Vinyl chloride	BRL	2.0		ug/L	182226	1	10/11/2013 03:04	AR
Surr: 4-Bromofluorobenzene	89.2	66.2-120		%REC	182226	500	10/11/2013 19:34	AK
Surr: 4-Bromofluorobenzene	93.1	66.2-120		%REC	182226	1	10/11/2013 03:04	AR
Surr: 4-Bromofluorobenzene	86.5	66.2-120		%REC	182226	2000	10/14/2013 15:43	AK
Surr: 4-Bromofluorobenzene	92.5	66.2-120		%REC	182226	20	10/11/2013 21:56	AK
Surr: Dibromofluoromethane	106	79.5-121		%REC	182226	2000	10/14/2013 15:43	AK
Surr: Dibromofluoromethane	96.9	79.5-121		%REC	182226	500	10/11/2013 19:34	AK
Surr: Dibromofluoromethane	90.6	79.5-121		%REC	182226	1	10/11/2013 03:04	AR
Surr: Dibromofluoromethane	94.7	79.5-121		%REC	182226	20	10/11/2013 21:56	AK
Surr: Toluene-d8	97	77-117		%REC	182226	500	10/11/2013 19:34	AK
Surr: Toluene-d8	78.9	77-117		%REC	182226	1	10/11/2013 03:04	AR
Surr: Toluene-d8	96.7	77-117		%REC	182226	20	10/11/2013 21:56	AK
Surr: Toluene-d8	98.7	77-117		%REC	182226	2000	10/14/2013 15:43	AK
METALS, DISSOLVED SW6010C					(SW3005A)			
Lead	BRL	0.0100		mg/L	182234	1	10/14/2013 14:41	JL
METALS, TOTAL SW6010C					(SW3010A)			
Lead	BRL	0.0100		mg/L	182188	1	10/10/2013 23:32	MR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: MW-21 (100813)
Project Name: Lafarge EP	Collection Date: 10/8/2013 9:25:00 AM
Lab ID: 1310746-011	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	182226	1	10/14/2013 19:40	AK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	182226	1	10/14/2013 19:40	AK
1,1,2-Trichloroethane	BRL	5.0		ug/L	182226	1	10/14/2013 19:40	AK
1,1-Dichloroethane	BRL	5.0		ug/L	182226	1	10/14/2013 19:40	AK
1,1-Dichloroethene	18	5.0		ug/L	182226	1	10/14/2013 19:40	AK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	182226	1	10/14/2013 19:40	AK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	182226	1	10/14/2013 19:40	AK
1,2-Dibromoethane	BRL	5.0		ug/L	182226	1	10/14/2013 19:40	AK
1,2-Dichlorobenzene	BRL	5.0		ug/L	182226	1	10/14/2013 19:40	AK
1,2-Dichloroethane	BRL	5.0		ug/L	182226	1	10/14/2013 19:40	AK
1,2-Dichloropropane	BRL	5.0		ug/L	182226	1	10/14/2013 19:40	AK
1,3-Dichlorobenzene	BRL	5.0		ug/L	182226	1	10/14/2013 19:40	AK
1,4-Dichlorobenzene	BRL	5.0		ug/L	182226	1	10/14/2013 19:40	AK
2-Butanone	BRL	50		ug/L	182226	1	10/14/2013 19:40	AK
2-Hexanone	BRL	10		ug/L	182226	1	10/14/2013 19:40	AK
4-Methyl-2-pentanone	BRL	10		ug/L	182226	1	10/14/2013 19:40	AK
Acetone	BRL	50		ug/L	182226	1	10/14/2013 19:40	AK
Benzene	64	5.0		ug/L	182226	1	10/14/2013 19:40	AK
Bromodichloromethane	BRL	5.0		ug/L	182226	1	10/14/2013 19:40	AK
Bromoform	BRL	5.0		ug/L	182226	1	10/14/2013 19:40	AK
Bromomethane	BRL	5.0		ug/L	182226	1	10/14/2013 19:40	AK
Carbon disulfide	BRL	5.0		ug/L	182226	1	10/14/2013 19:40	AK
Carbon tetrachloride	BRL	5.0		ug/L	182226	1	10/14/2013 19:40	AK
Chlorobenzene	BRL	5.0		ug/L	182226	1	10/14/2013 19:40	AK
Chloroethane	BRL	10		ug/L	182226	1	10/14/2013 19:40	AK
Chloroform	BRL	5.0		ug/L	182226	1	10/14/2013 19:40	AK
Chloromethane	BRL	10		ug/L	182226	1	10/14/2013 19:40	AK
cis-1,2-Dichloroethene	10000	500		ug/L	182226	100	10/14/2013 19:12	AK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	182226	1	10/14/2013 19:40	AK
Cyclohexane	120	5.0		ug/L	182226	1	10/14/2013 19:40	AK
Dibromochloromethane	BRL	5.0		ug/L	182226	1	10/14/2013 19:40	AK
Dichlorodifluoromethane	BRL	10		ug/L	182226	1	10/14/2013 19:40	AK
Ethylbenzene	BRL	5.0		ug/L	182226	1	10/14/2013 19:40	AK
Freon-113	BRL	10		ug/L	182226	1	10/14/2013 19:40	AK
Isopropylbenzene	BRL	5.0		ug/L	182226	1	10/14/2013 19:40	AK
m,p-Xylene	BRL	5.0		ug/L	182226	1	10/14/2013 19:40	AK
Methyl acetate	BRL	5.0		ug/L	182226	1	10/14/2013 19:40	AK
Methyl tert-butyl ether	BRL	5.0		ug/L	182226	1	10/14/2013 19:40	AK
Methylcyclohexane	200	50		ug/L	182226	10	10/14/2013 16:12	AK
Methylene chloride	BRL	5.0		ug/L	182226	1	10/14/2013 19:40	AK
o-Xylene	BRL	5.0		ug/L	182226	1	10/14/2013 19:40	AK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: MW-21 (100813)
Project Name: Lafarge EP	Collection Date: 10/8/2013 9:25:00 AM
Lab ID: 1310746-011	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5030B)			
Styrene	BRL	5.0		ug/L	182226	1	10/14/2013 19:40	AK
Tetrachloroethene	BRL	5.0		ug/L	182226	1	10/14/2013 19:40	AK
Toluene	6.3	5.0		ug/L	182226	1	10/14/2013 19:40	AK
trans-1,2-Dichloroethene	11	5.0		ug/L	182226	1	10/14/2013 19:40	AK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	182226	1	10/14/2013 19:40	AK
Trichloroethene	BRL	5.0		ug/L	182226	1	10/14/2013 19:40	AK
Trichlorofluoromethane	BRL	5.0		ug/L	182226	1	10/14/2013 19:40	AK
Vinyl chloride	260	100		ug/L	182226	50	10/11/2013 20:31	AK
Surr: 4-Bromofluorobenzene	91.3	66.2-120		%REC	182226	50	10/11/2013 20:31	AK
Surr: 4-Bromofluorobenzene	84.5	66.2-120		%REC	182226	100	10/14/2013 19:12	AK
Surr: 4-Bromofluorobenzene	89.4	66.2-120		%REC	182226	10	10/14/2013 16:12	AK
Surr: 4-Bromofluorobenzene	94.9	66.2-120		%REC	182226	1	10/14/2013 19:40	AK
Surr: Dibromofluoromethane	101	79.5-121		%REC	182226	50	10/11/2013 20:31	AK
Surr: Dibromofluoromethane	100	79.5-121		%REC	182226	100	10/14/2013 19:12	AK
Surr: Dibromofluoromethane	102	79.5-121		%REC	182226	10	10/14/2013 16:12	AK
Surr: Dibromofluoromethane	108	79.5-121		%REC	182226	1	10/14/2013 19:40	AK
Surr: Toluene-d8	100	77-117		%REC	182226	50	10/11/2013 20:31	AK
Surr: Toluene-d8	95.6	77-117		%REC	182226	10	10/14/2013 16:12	AK
Surr: Toluene-d8	99.9	77-117		%REC	182226	100	10/14/2013 19:12	AK
Surr: Toluene-d8	102	77-117		%REC	182226	1	10/14/2013 19:40	AK
METALS, DISSOLVED SW6010C					(SW3005A)			
Lead	BRL	0.0100		mg/L	182234	1	10/14/2013 14:45	JL
METALS, TOTAL SW6010C					(SW3010A)			
Lead	BRL	0.0100		mg/L	182188	1	10/10/2013 23:36	MR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: MW-8 (100813)
Project Name: Lafarge EP	Collection Date: 10/8/2013 10:35:00 AM
Lab ID: 1310746-012	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	182226	1	10/14/2013 15:15	AK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	182226	1	10/14/2013 15:15	AK
1,1,2-Trichloroethane	BRL	5.0		ug/L	182226	1	10/14/2013 15:15	AK
1,1-Dichloroethane	BRL	5.0		ug/L	182226	1	10/14/2013 15:15	AK
1,1-Dichloroethene	BRL	5.0		ug/L	182226	1	10/14/2013 15:15	AK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	182226	1	10/14/2013 15:15	AK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	182226	1	10/14/2013 15:15	AK
1,2-Dibromoethane	BRL	5.0		ug/L	182226	1	10/14/2013 15:15	AK
1,2-Dichlorobenzene	BRL	5.0		ug/L	182226	1	10/14/2013 15:15	AK
1,2-Dichloroethane	BRL	5.0		ug/L	182226	1	10/14/2013 15:15	AK
1,2-Dichloropropane	BRL	5.0		ug/L	182226	1	10/14/2013 15:15	AK
1,3-Dichlorobenzene	BRL	5.0		ug/L	182226	1	10/14/2013 15:15	AK
1,4-Dichlorobenzene	BRL	5.0		ug/L	182226	1	10/14/2013 15:15	AK
2-Butanone	BRL	50		ug/L	182226	1	10/14/2013 15:15	AK
2-Hexanone	BRL	10		ug/L	182226	1	10/14/2013 15:15	AK
4-Methyl-2-pentanone	BRL	10		ug/L	182226	1	10/14/2013 15:15	AK
Acetone	BRL	50		ug/L	182226	1	10/14/2013 15:15	AK
Benzene	14	5.0		ug/L	182226	1	10/14/2013 15:15	AK
Bromodichloromethane	BRL	5.0		ug/L	182226	1	10/14/2013 15:15	AK
Bromoform	BRL	5.0		ug/L	182226	1	10/14/2013 15:15	AK
Bromomethane	BRL	5.0		ug/L	182226	1	10/14/2013 15:15	AK
Carbon disulfide	BRL	5.0		ug/L	182226	1	10/14/2013 15:15	AK
Carbon tetrachloride	BRL	5.0		ug/L	182226	1	10/14/2013 15:15	AK
Chlorobenzene	BRL	5.0		ug/L	182226	1	10/14/2013 15:15	AK
Chloroethane	BRL	10		ug/L	182226	1	10/14/2013 15:15	AK
Chloroform	BRL	5.0		ug/L	182226	1	10/14/2013 15:15	AK
Chloromethane	BRL	10		ug/L	182226	1	10/14/2013 15:15	AK
cis-1,2-Dichloroethene	1900	100		ug/L	182226	20	10/11/2013 20:59	AK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	182226	1	10/14/2013 15:15	AK
Cyclohexane	BRL	5.0		ug/L	182226	1	10/14/2013 15:15	AK
Dibromochloromethane	BRL	5.0		ug/L	182226	1	10/14/2013 15:15	AK
Dichlorodifluoromethane	BRL	10		ug/L	182226	1	10/14/2013 15:15	AK
Ethylbenzene	120	5.0		ug/L	182226	1	10/14/2013 15:15	AK
Freon-113	BRL	10		ug/L	182226	1	10/14/2013 15:15	AK
Isopropylbenzene	BRL	5.0		ug/L	182226	1	10/14/2013 15:15	AK
m,p-Xylene	310	5.0		ug/L	182226	1	10/14/2013 15:15	AK
Methyl acetate	BRL	5.0		ug/L	182226	1	10/14/2013 15:15	AK
Methyl tert-butyl ether	BRL	5.0		ug/L	182226	1	10/14/2013 15:15	AK
Methylcyclohexane	5.6	5.0		ug/L	182226	1	10/14/2013 15:15	AK
Methylene chloride	BRL	5.0		ug/L	182226	1	10/14/2013 15:15	AK
o-Xylene	120	5.0		ug/L	182226	1	10/14/2013 15:15	AK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: MW-8 (100813)
Project Name: Lafarge EP	Collection Date: 10/8/2013 10:35:00 AM
Lab ID: 1310746-012	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	182226	1	10/14/2013 15:15	AK
Tetrachloroethene	BRL	5.0		ug/L	182226	1	10/14/2013 15:15	AK
Toluene	2700	100		ug/L	182226	20	10/11/2013 20:59	AK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	182226	1	10/14/2013 15:15	AK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	182226	1	10/14/2013 15:15	AK
Trichloroethene	BRL	5.0		ug/L	182226	1	10/14/2013 15:15	AK
Trichlorofluoromethane	BRL	5.0		ug/L	182226	1	10/14/2013 15:15	AK
Vinyl chloride	110	2.0		ug/L	182226	1	10/14/2013 15:15	AK
Surr: 4-Bromofluorobenzene	97.7	66.2-120		%REC	182226	1	10/14/2013 15:15	AK
Surr: 4-Bromofluorobenzene	89.5	66.2-120		%REC	182226	20	10/11/2013 20:59	AK
Surr: Dibromofluoromethane	106	79.5-121		%REC	182226	1	10/14/2013 15:15	AK
Surr: Dibromofluoromethane	99.9	79.5-121		%REC	182226	20	10/11/2013 20:59	AK
Surr: Toluene-d8	101	77-117		%REC	182226	20	10/11/2013 20:59	AK
Surr: Toluene-d8	97.1	77-117		%REC	182226	1	10/14/2013 15:15	AK
METALS, DISSOLVED SW6010C				(SW3005A)				
Lead	BRL	0.0100		mg/L	182234	1	10/14/2013 14:49	JL
METALS, TOTAL SW6010C				(SW3010A)				
Lead	BRL	0.0100		mg/L	182188	1	10/10/2013 23:40	MR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: MW-7 (100813)
Project Name: Lafarge EP	Collection Date: 10/8/2013 11:45:00 AM
Lab ID: 1310746-013	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	182226	1	10/11/2013 04:32	AR
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	182226	1	10/11/2013 04:32	AR
1,1,2-Trichloroethane	BRL	5.0		ug/L	182226	1	10/11/2013 04:32	AR
1,1-Dichloroethane	BRL	5.0		ug/L	182226	1	10/11/2013 04:32	AR
1,1-Dichloroethene	BRL	5.0		ug/L	182226	1	10/11/2013 04:32	AR
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	182226	1	10/11/2013 04:32	AR
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	182226	1	10/11/2013 04:32	AR
1,2-Dibromoethane	BRL	5.0		ug/L	182226	1	10/11/2013 04:32	AR
1,2-Dichlorobenzene	BRL	5.0		ug/L	182226	1	10/11/2013 04:32	AR
1,2-Dichloroethane	BRL	5.0		ug/L	182226	1	10/11/2013 04:32	AR
1,2-Dichloropropane	BRL	5.0		ug/L	182226	1	10/11/2013 04:32	AR
1,3-Dichlorobenzene	BRL	5.0		ug/L	182226	1	10/11/2013 04:32	AR
1,4-Dichlorobenzene	BRL	5.0		ug/L	182226	1	10/11/2013 04:32	AR
2-Butanone	BRL	50		ug/L	182226	1	10/11/2013 04:32	AR
2-Hexanone	BRL	10		ug/L	182226	1	10/11/2013 04:32	AR
4-Methyl-2-pentanone	BRL	10		ug/L	182226	1	10/11/2013 04:32	AR
Acetone	BRL	50		ug/L	182226	1	10/11/2013 04:32	AR
Benzene	BRL	5.0		ug/L	182226	1	10/11/2013 04:32	AR
Bromodichloromethane	BRL	5.0		ug/L	182226	1	10/11/2013 04:32	AR
Bromoform	BRL	5.0		ug/L	182226	1	10/11/2013 04:32	AR
Bromomethane	BRL	5.0		ug/L	182226	1	10/11/2013 04:32	AR
Carbon disulfide	BRL	5.0		ug/L	182226	1	10/11/2013 04:32	AR
Carbon tetrachloride	BRL	5.0		ug/L	182226	1	10/11/2013 04:32	AR
Chlorobenzene	BRL	5.0		ug/L	182226	1	10/11/2013 04:32	AR
Chloroethane	BRL	10		ug/L	182226	1	10/11/2013 04:32	AR
Chloroform	BRL	5.0		ug/L	182226	1	10/11/2013 04:32	AR
Chloromethane	BRL	10		ug/L	182226	1	10/11/2013 04:32	AR
cis-1,2-Dichloroethene	48	5.0		ug/L	182226	1	10/11/2013 04:32	AR
cis-1,3-Dichloropropene	BRL	5.0		ug/L	182226	1	10/11/2013 04:32	AR
Cyclohexane	BRL	5.0		ug/L	182226	1	10/11/2013 04:32	AR
Dibromochloromethane	BRL	5.0		ug/L	182226	1	10/11/2013 04:32	AR
Dichlorodifluoromethane	BRL	10		ug/L	182226	1	10/11/2013 04:32	AR
Ethylbenzene	BRL	5.0		ug/L	182226	1	10/11/2013 04:32	AR
Freon-113	BRL	10		ug/L	182226	1	10/11/2013 04:32	AR
Isopropylbenzene	BRL	5.0		ug/L	182226	1	10/11/2013 04:32	AR
m,p-Xylene	6.6	5.0		ug/L	182226	1	10/11/2013 04:32	AR
Methyl acetate	BRL	5.0		ug/L	182226	1	10/11/2013 04:32	AR
Methyl tert-butyl ether	BRL	5.0		ug/L	182226	1	10/11/2013 04:32	AR
Methylcyclohexane	46	5.0		ug/L	182226	1	10/11/2013 04:32	AR
Methylene chloride	BRL	5.0		ug/L	182226	1	10/11/2013 04:32	AR
o-Xylene	19	5.0		ug/L	182226	1	10/11/2013 04:32	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: MW-7 (100813)
Project Name: Lafarge EP	Collection Date: 10/8/2013 11:45:00 AM
Lab ID: 1310746-013	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	182226	1	10/11/2013 04:32	AR
Tetrachloroethene	9.0	5.0		ug/L	182226	1	10/11/2013 04:32	AR
Toluene	8.3	5.0		ug/L	182226	1	10/11/2013 04:32	AR
trans-1,2-Dichloroethene	BRL	5.0		ug/L	182226	1	10/11/2013 04:32	AR
trans-1,3-Dichloropropene	BRL	5.0		ug/L	182226	1	10/11/2013 04:32	AR
Trichloroethene	34000	5000		ug/L	182226	1000	10/14/2013 18:44	AK
Trichlorofluoromethane	BRL	5.0		ug/L	182226	1	10/11/2013 04:32	AR
Vinyl chloride	BRL	2.0		ug/L	182226	1	10/11/2013 04:32	AR
Surr: 4-Bromofluorobenzene	83.4	66.2-120		%REC	182226	1000	10/14/2013 18:44	AK
Surr: 4-Bromofluorobenzene	88.5	66.2-120		%REC	182226	1	10/11/2013 04:32	AR
Surr: Dibromofluoromethane	88.3	79.5-121		%REC	182226	1	10/11/2013 04:32	AR
Surr: Dibromofluoromethane	104	79.5-121		%REC	182226	1000	10/14/2013 18:44	AK
Surr: Toluene-d8	90.8	77-117		%REC	182226	1	10/11/2013 04:32	AR
Surr: Toluene-d8	97.6	77-117		%REC	182226	1000	10/14/2013 18:44	AK
METALS, DISSOLVED SW6010C				(SW3005A)				
Lead	BRL	0.0100		mg/L	182234	1	10/14/2013 14:53	JL
METALS, TOTAL SW6010C				(SW3010A)				
Lead	BRL	0.0100		mg/L	182188	1	10/10/2013 22:01	MR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Arcais

Work Order Number 1310746

Checklist completed by [Signature] Signature Date 10.9.10

Carrier name: FedEx UPS Courier Client US Mail Other

Shipping container/cooler in good condition? Yes No Not Present

Custody seals intact on shipping container/cooler? Yes No Not Present

Custody seals intact on sample bottles? Yes No Not Present

Container/Temp Blank temperature in compliance? (4°C±2)* Yes No

Cooler #1 3.2 Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present? Yes No

Chain of custody signed when relinquished and received? Yes No

Chain of custody agrees with sample labels? Yes No

Samples in proper container/bottle? Yes No

Sample containers intact? Yes No

Sufficient sample volume for indicated test? Yes No

All samples received within holding time? Yes No

Was TAT marked on the COC? Yes No

Proceed with Standard TAT as per project history? Yes No Not Applicable

Water - VOA vials have zero headspace? No VOA vials submitted Yes No

Water - pH acceptable upon receipt? Yes No Not Applicable

Adjusted? _____ Checked by [Signature]

Sample Condition: Good Other(Explain) _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes No

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

Client: Arcadis
 Project Name: Lafarge EP
 Workorder: 1310746

ANALYTICAL QC SUMMARY REPORT

BatchID: 182188

Sample ID: MB-182188	Client ID:	Units: mg/L	Prep Date: 10/10/2013	Run No: 253752							
SampleType: MBLK	TestCode: METALS, TOTAL SW6010C	BatchID: 182188	Analysis Date: 10/10/2013	Seq No: 5327735							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Lead BRL 0.0100

Sample ID: LCS-182188	Client ID:	Units: mg/L	Prep Date: 10/10/2013	Run No: 253752							
SampleType: LCS	TestCode: METALS, TOTAL SW6010C	BatchID: 182188	Analysis Date: 10/10/2013	Seq No: 5327731							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Lead 0.9958 0.0100 1.000 99.6 80 120

Sample ID: 1310746-013BMS	Client ID: MW-7 (100813)	Units: mg/L	Prep Date: 10/10/2013	Run No: 253752							
SampleType: MS	TestCode: METALS, TOTAL SW6010C	BatchID: 182188	Analysis Date: 10/10/2013	Seq No: 5327737							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Lead 0.9978 0.0100 1.000 99.8 75 125

Sample ID: 1310746-013BMSD	Client ID: MW-7 (100813)	Units: mg/L	Prep Date: 10/10/2013	Run No: 253752							
SampleType: MSD	TestCode: METALS, TOTAL SW6010C	BatchID: 182188	Analysis Date: 10/10/2013	Seq No: 5327738							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Lead 0.9906 0.0100 1.000 99.1 75 125 0.9978 0.725 20

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Arcadis
Project Name: Lafarge EP
Workorder: 1310746

ANALYTICAL QC SUMMARY REPORT

BatchID: 182226

Sample ID: MB-182226	Client ID:	Units: ug/L	Prep Date: 10/10/2013	Run No: 253664							
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 182226	Analysis Date: 10/10/2013	Seq No: 5326337							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
2-Butanone	BRL	50									
2-Hexanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	50									
Benzene	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon disulfide	BRL	5.0									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									
Chloroform	BRL	5.0									
Chloromethane	BRL	10									

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
 Project Name: Lafarge EP
 Workorder: 1310746

ANALYTICAL QC SUMMARY REPORT

BatchID: 182226

Sample ID: MB-182226	Client ID:	Units: ug/L	Prep Date: 10/10/2013	Run No: 253664
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 182226	Analysis Date: 10/10/2013	Seq No: 5326337

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	5.0									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	2.0									
Surr: 4-Bromofluorobenzene	42.68	0	50.00		85.4	66.2	120				
Surr: Dibromofluoromethane	53.23	0	50.00		106	79.5	121				
Surr: Toluene-d8	48.48	0	50.00		97.0	77	117				

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
Project Name: Lafarge EP
Workorder: 1310746

ANALYTICAL QC SUMMARY REPORT

BatchID: 182226

Sample ID: LCS-182226	Client ID:	Units: ug/L	Prep Date: 10/10/2013	Run No: 253664							
SampleType: LCS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 182226	Analysis Date: 10/10/2013	Seq No: 5326335							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	19.09	5.0	20.00		95.4	61.1	142				
Benzene	20.16	5.0	20.00		101	73.5	130				
Chlorobenzene	19.63	5.0	20.00		98.2	72.4	123				
Toluene	20.06	5.0	20.00		100	73.6	130				
Trichloroethene	20.08	5.0	20.00		100	70	135				
Surr: 4-Bromofluorobenzene	48.33	0	50.00		96.7	66.2	120				
Surr: Dibromofluoromethane	52.27	0	50.00		105	79.5	121				
Surr: Toluene-d8	51.24	0	50.00		102	77	117				

Sample ID: 1310746-001AMS	Client ID: MW-26 (100713)	Units: ug/L	Prep Date: 10/10/2013	Run No: 253664							
SampleType: MS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 182226	Analysis Date: 10/10/2013	Seq No: 5326341							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	22.06	5.0	20.00		110	60	168				
Benzene	22.24	5.0	20.00		111	66.6	148				
Chlorobenzene	21.69	5.0	20.00		108	71.9	135				
Toluene	22.20	5.0	20.00		111	68	149				
Trichloroethene	28.68	5.0	20.00	6.370	112	71.1	154				
Surr: 4-Bromofluorobenzene	48.37	0	50.00		96.7	66.2	120				
Surr: Dibromofluoromethane	54.21	0	50.00		108	79.5	121				
Surr: Toluene-d8	51.79	0	50.00		104	77	117				

Sample ID: 1310746-001AMSD	Client ID: MW-26 (100713)	Units: ug/L	Prep Date: 10/10/2013	Run No: 253664							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 182226	Analysis Date: 10/10/2013	Seq No: 5326342							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	22.07	5.0	20.00		110	60	168	22.06	0.045	18.6	
Benzene	21.80	5.0	20.00		109	66.6	148	22.24	2.00	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
 Project Name: Lafarge EP
 Workorder: 1310746

ANALYTICAL QC SUMMARY REPORT

BatchID: 182226

Sample ID: 1310746-001AMSD	Client ID: MW-26 (100713)	Units: ug/L	Prep Date: 10/10/2013	Run No: 253664
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 182226	Analysis Date: 10/10/2013	Seq No: 5326342

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	20.97	5.0	20.00		105	71.9	135	21.69	3.38	20	
Toluene	21.74	5.0	20.00		109	68	149	22.20	2.09	20	
Trichloroethene	28.40	5.0	20.00	6.370	110	71.1	154	28.68	0.981	20	
Surr: 4-Bromofluorobenzene	47.17	0	50.00		94.3	66.2	120	48.37	0	0	
Surr: Dibromofluoromethane	52.97	0	50.00		106	79.5	121	54.21	0	0	
Surr: Toluene-d8	51.62	0	50.00		103	77	117	51.79	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
 Project Name: Lafarge EP
 Workorder: 1310746

ANALYTICAL QC SUMMARY REPORT

BatchID: 182234

Sample ID: MB-182234	Client ID:	Units: mg/L	Prep Date: 10/14/2013	Run No: 253886							
SampleType: MBLK	TestCode: METALS, DISSOLVED SW6010C	BatchID: 182234	Analysis Date: 10/14/2013	Seq No: 5330912							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Lead BRL 0.0100

Sample ID: LCS-182234	Client ID:	Units: mg/L	Prep Date: 10/14/2013	Run No: 253886							
SampleType: LCS	TestCode: METALS, DISSOLVED SW6010C	BatchID: 182234	Analysis Date: 10/14/2013	Seq No: 5330911							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Lead 0.9820 0.0100 1.000 98.2 80 120

Sample ID: 1310746-001CMS	Client ID: MW-26 (100713)	Units: mg/L	Prep Date: 10/14/2013	Run No: 253886							
SampleType: MS	TestCode: METALS, DISSOLVED SW6010C	BatchID: 182234	Analysis Date: 10/14/2013	Seq No: 5330915							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Lead 0.9600 0.0100 1.000 96.0 75 125

Sample ID: 1310746-001CMSD	Client ID: MW-26 (100713)	Units: mg/L	Prep Date: 10/14/2013	Run No: 253886							
SampleType: MSD	TestCode: METALS, DISSOLVED SW6010C	BatchID: 182234	Analysis Date: 10/14/2013	Seq No: 5330917							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Lead 0.9657 0.0100 1.000 96.6 75 125 0.9600 0.592 20

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix



March 06, 2014

Peter Cornais
Arcadis
2081 Vista Parkway, Suite 200
West Palm Beach FL 33411

TEL: (850) 445-0829
FAX:

RE: Lafarge East Point AS/SVE/DPE-SU

Dear Peter Cornais:

Order No: 1402M35

Analytical Environmental Services, Inc. received 6 samples on 2/27/2014 7:37:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/13-06/30/14.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/15.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Chantelle Kanhai
Project Manager

ANALYTICAL ENVIRONMENTAL SERVICES, INC

3080 Presidential Drive, Atlanta GA 30340-3704
TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188



ADDRESS:
1000 Cobb Place Blvd
Building 500A
Kennesaw, GA 30144
FAX: 770 428 1004

COMPANY:
Arcadis
PHONE: 770 428 9009
SAMPLED BY: Ivan Jenkins, Dan Derriday
SIGNATURE: *Ivan Jenkins*

#	SAMPLE ID	SAMPLED		Grab	Composite	Matrix (See codes)	PRESERVATION (See codes)	REMARKS	No # of Containers
		DATE	TIME						
1	DPE-109(022614)	2/26/14	1737	-	-	GW		check pH depressed	3
2	DPE-118(022614)	2/26/14	1740	-	-	GW		* 408 418	3
3	DPE-305(022614)	2/26/14	1743	-	-	GW		* DATA 408	3
4	DPE-307(022614)	2/26/14	1747	-	-	GW		* DITHO 408	3
5	DPE-313(022614)	2/26/14	1751	-	-	GW		* NO Label for HVCs on Total Metals bottle. Please check pH	3
6	DPE-408(022614)	2/26/14	1733	-	-	GW			3

RELINQUISHED BY: *Ivan Jenkins* DATE/TIME RECEIVED BY: *JK* DATE/TIME: 2/27/14

PROJECT NAME: Lafarge East Point ASKVE/OPE-SU
PROJECT #: HT212446.00141.00002
SITE ADDRESS: 2675 R.N. Martin ST East Point, GA 30144

SEND REPORT TO: *See Spec Int.*
INVOICE TO: (IF DIFFERENT FROM ABOVE)
QUOTE #:

SHIPMENT METHOD: CLIENT VIA: FedEx UPS MAIL COURIER
OUT IN
GREYHOUND OTHER

SPECIAL INSTRUCTIONS/COMMENTS: Please send report to: *gregory.situma@arcadis-us.com*
petea.cornais@arcadis-us.com

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water
PRESERVATIVE CODES: H+1 = Hydrochloric acid + ice I = Ice only N = Nitric acid S+1 = Sulfuric acid + ice S/M+1 = Sodium Bisulfate/Methanol + ice

White Copy - Original; Yellow Copy - Client

Client: Arcadis
Project: Lafarge East Point AS/SVE/DPE-SU
Lab ID: 1402M35

Case Narrative

Volatiles Organic Compounds Analysis by Method 8260B:

Toluene values for the QC samples 1402M35-001AMS/MSD are "E" qualified indicating estimated values over linear calibration range due to the level of target analyte present in the unspiked sample.

Due to sample matrix, samples 1402M35-001, -003, -004 and -006 required dilution during preparation and/or analysis resulting in elevated reporting limits.

Analytical Environmental Services, Inc

Date: 6-Mar-14

Client: Arcadis	Client Sample ID: DPE-109(022614)
Project Name: Lafarge East Point AS/SVE/DPE-SU	Collection Date: 2/26/2014 5:37:00 PM
Lab ID: 1402M35-001	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	250		ug/L	187647	50	02/27/2014 17:30	GK
1,1,2,2-Tetrachloroethane	BRL	250		ug/L	187647	50	02/27/2014 17:30	GK
1,1,2-Trichloroethane	BRL	250		ug/L	187647	50	02/27/2014 17:30	GK
1,1-Dichloroethane	BRL	250		ug/L	187647	50	02/27/2014 17:30	GK
1,1-Dichloroethene	BRL	250		ug/L	187647	50	02/27/2014 17:30	GK
1,2,4-Trichlorobenzene	BRL	250		ug/L	187647	50	02/27/2014 17:30	GK
1,2-Dibromo-3-chloropropane	BRL	250		ug/L	187647	50	02/27/2014 17:30	GK
1,2-Dibromoethane	BRL	250		ug/L	187647	50	02/27/2014 17:30	GK
1,2-Dichlorobenzene	BRL	250		ug/L	187647	50	02/27/2014 17:30	GK
1,2-Dichloroethane	BRL	250		ug/L	187647	50	02/27/2014 17:30	GK
1,2-Dichloropropane	BRL	250		ug/L	187647	50	02/27/2014 17:30	GK
1,3-Dichlorobenzene	BRL	250		ug/L	187647	50	02/27/2014 17:30	GK
1,4-Dichlorobenzene	BRL	250		ug/L	187647	50	02/27/2014 17:30	GK
2-Butanone	BRL	2500		ug/L	187647	50	02/27/2014 17:30	GK
2-Hexanone	BRL	500		ug/L	187647	50	02/27/2014 17:30	GK
4-Methyl-2-pentanone	BRL	500		ug/L	187647	50	02/27/2014 17:30	GK
Acetone	BRL	2500		ug/L	187647	50	02/27/2014 17:30	GK
Benzene	BRL	250		ug/L	187647	50	02/27/2014 17:30	GK
Bromodichloromethane	BRL	250		ug/L	187647	50	02/27/2014 17:30	GK
Bromoform	BRL	250		ug/L	187647	50	02/27/2014 17:30	GK
Bromomethane	BRL	250		ug/L	187647	50	02/27/2014 17:30	GK
Carbon disulfide	BRL	250		ug/L	187647	50	02/27/2014 17:30	GK
Carbon tetrachloride	BRL	250		ug/L	187647	50	02/27/2014 17:30	GK
Chlorobenzene	BRL	250		ug/L	187647	50	02/27/2014 17:30	GK
Chloroethane	BRL	500		ug/L	187647	50	02/27/2014 17:30	GK
Chloroform	BRL	250		ug/L	187647	50	02/27/2014 17:30	GK
Chloromethane	BRL	500		ug/L	187647	50	02/27/2014 17:30	GK
cis-1,2-Dichloroethene	4100	250		ug/L	187647	50	02/27/2014 17:30	GK
cis-1,3-Dichloropropene	BRL	250		ug/L	187647	50	02/27/2014 17:30	GK
Cyclohexane	BRL	250		ug/L	187647	50	02/27/2014 17:30	GK
Dibromochloromethane	BRL	250		ug/L	187647	50	02/27/2014 17:30	GK
Dichlorodifluoromethane	BRL	500		ug/L	187647	50	02/27/2014 17:30	GK
Ethylbenzene	1100	250		ug/L	187647	50	02/27/2014 17:30	GK
Freon-113	BRL	500		ug/L	187647	50	02/27/2014 17:30	GK
Isopropylbenzene	BRL	250		ug/L	187647	50	02/27/2014 17:30	GK
m,p-Xylene	3400	250		ug/L	187647	50	02/27/2014 17:30	GK
Methyl acetate	BRL	250		ug/L	187647	50	02/27/2014 17:30	GK
Methyl tert-butyl ether	BRL	250		ug/L	187647	50	02/27/2014 17:30	GK
Methylcyclohexane	BRL	250		ug/L	187647	50	02/27/2014 17:30	GK
Methylene chloride	BRL	250		ug/L	187647	50	02/27/2014 17:30	GK
o-Xylene	1200	250		ug/L	187647	50	02/27/2014 17:30	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: DPE-109(022614)
Project Name: Lafarge East Point AS/SVE/DPE-SU	Collection Date: 2/26/2014 5:37:00 PM
Lab ID: 1402M35-001	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	250		ug/L	187647	50	02/27/2014 17:30	GK
Tetrachloroethene	BRL	250		ug/L	187647	50	02/27/2014 17:30	GK
Toluene	9000	250		ug/L	187647	50	02/27/2014 17:30	GK
trans-1,2-Dichloroethene	BRL	250		ug/L	187647	50	02/27/2014 17:30	GK
trans-1,3-Dichloropropene	BRL	250		ug/L	187647	50	02/27/2014 17:30	GK
Trichloroethene	1600	250		ug/L	187647	50	02/27/2014 17:30	GK
Trichlorofluoromethane	BRL	250		ug/L	187647	50	02/27/2014 17:30	GK
Vinyl chloride	BRL	100		ug/L	187647	50	02/27/2014 17:30	GK
Surr: 4-Bromofluorobenzene	98.6	66.2-120		%REC	187647	50	02/27/2014 17:30	GK
Surr: Dibromofluoromethane	101	79.5-121		%REC	187647	50	02/27/2014 17:30	GK
Surr: Toluene-d8	98.9	77-117		%REC	187647	50	02/27/2014 17:30	GK
METALS, DISSOLVED SW6010C				(SW3005A)				
Iron	4.48	0.100		mg/L	187519	1	02/27/2014 13:08	JL
Manganese	2.60	0.0150		mg/L	187519	1	02/27/2014 13:08	JL
METALS, TOTAL SW6010C				(SW3010A)				
Iron	11.3	0.100		mg/L	187758	1	03/04/2014 23:39	JL
Manganese	2.75	0.0150		mg/L	187758	1	03/04/2014 23:39	JL

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 6-Mar-14

Client: Arcadis	Client Sample ID: DPE-118(022614)
Project Name: Lafarge East Point AS/SVE/DPE-SU	Collection Date: 2/26/2014 5:40:00 PM
Lab ID: 1402M35-002	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	187647	1	02/28/2014 13:01	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	187647	1	02/28/2014 13:01	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	187647	1	02/28/2014 13:01	GK
1,1-Dichloroethane	BRL	5.0		ug/L	187647	1	02/28/2014 13:01	GK
1,1-Dichloroethene	BRL	5.0		ug/L	187647	1	02/28/2014 13:01	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	187647	1	02/28/2014 13:01	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	187647	1	02/28/2014 13:01	GK
1,2-Dibromoethane	BRL	5.0		ug/L	187647	1	02/28/2014 13:01	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	187647	1	02/28/2014 13:01	GK
1,2-Dichloroethane	BRL	5.0		ug/L	187647	1	02/28/2014 13:01	GK
1,2-Dichloropropane	BRL	5.0		ug/L	187647	1	02/28/2014 13:01	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	187647	1	02/28/2014 13:01	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	187647	1	02/28/2014 13:01	GK
2-Butanone	BRL	50		ug/L	187647	1	02/28/2014 13:01	GK
2-Hexanone	BRL	10		ug/L	187647	1	02/28/2014 13:01	GK
4-Methyl-2-pentanone	BRL	10		ug/L	187647	1	02/28/2014 13:01	GK
Acetone	BRL	50		ug/L	187647	1	02/28/2014 13:01	GK
Benzene	18	5.0		ug/L	187647	1	02/28/2014 13:01	GK
Bromodichloromethane	BRL	5.0		ug/L	187647	1	02/28/2014 13:01	GK
Bromoform	BRL	5.0		ug/L	187647	1	02/28/2014 13:01	GK
Bromomethane	BRL	5.0		ug/L	187647	1	02/28/2014 13:01	GK
Carbon disulfide	BRL	5.0		ug/L	187647	1	02/28/2014 13:01	GK
Carbon tetrachloride	BRL	5.0		ug/L	187647	1	02/28/2014 13:01	GK
Chlorobenzene	BRL	5.0		ug/L	187647	1	02/28/2014 13:01	GK
Chloroethane	BRL	10		ug/L	187647	1	02/28/2014 13:01	GK
Chloroform	BRL	5.0		ug/L	187647	1	02/28/2014 13:01	GK
Chloromethane	BRL	10		ug/L	187647	1	02/28/2014 13:01	GK
cis-1,2-Dichloroethene	610	250		ug/L	187647	50	02/27/2014 18:51	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	187647	1	02/28/2014 13:01	GK
Cyclohexane	22	5.0		ug/L	187647	1	02/28/2014 13:01	GK
Dibromochloromethane	BRL	5.0		ug/L	187647	1	02/28/2014 13:01	GK
Dichlorodifluoromethane	BRL	10		ug/L	187647	1	02/28/2014 13:01	GK
Ethylbenzene	110	5.0		ug/L	187647	1	02/28/2014 13:01	GK
Freon-113	BRL	10		ug/L	187647	1	02/28/2014 13:01	GK
Isopropylbenzene	BRL	5.0		ug/L	187647	1	02/28/2014 13:01	GK
m,p-Xylene	310	250		ug/L	187647	50	02/27/2014 18:51	GK
Methyl acetate	BRL	5.0		ug/L	187647	1	02/28/2014 13:01	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	187647	1	02/28/2014 13:01	GK
Methylcyclohexane	26	5.0		ug/L	187647	1	02/28/2014 13:01	GK
Methylene chloride	BRL	5.0		ug/L	187647	1	02/28/2014 13:01	GK
o-Xylene	91	5.0		ug/L	187647	1	02/28/2014 13:01	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: DPE-118(022614)
Project Name: Lafarge East Point AS/SVE/DPE-SU	Collection Date: 2/26/2014 5:40:00 PM
Lab ID: 1402M35-002	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5030B)			
Styrene	BRL	5.0		ug/L	187647	1	02/28/2014 13:01	GK
Tetrachloroethene	BRL	5.0		ug/L	187647	1	02/28/2014 13:01	GK
Toluene	770	250		ug/L	187647	50	02/27/2014 18:51	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	187647	1	02/28/2014 13:01	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	187647	1	02/28/2014 13:01	GK
Trichloroethene	11	5.0		ug/L	187647	1	02/28/2014 13:01	GK
Trichlorofluoromethane	BRL	5.0		ug/L	187647	1	02/28/2014 13:01	GK
Vinyl chloride	6.2	2.0		ug/L	187647	1	02/28/2014 13:01	GK
Surr: 4-Bromofluorobenzene	98.2	66.2-120		%REC	187647	50	02/27/2014 18:51	GK
Surr: 4-Bromofluorobenzene	99.7	66.2-120		%REC	187647	1	02/28/2014 13:01	GK
Surr: Dibromofluoromethane	101	79.5-121		%REC	187647	50	02/27/2014 18:51	GK
Surr: Dibromofluoromethane	98.8	79.5-121		%REC	187647	1	02/28/2014 13:01	GK
Surr: Toluene-d8	97.7	77-117		%REC	187647	50	02/27/2014 18:51	GK
Surr: Toluene-d8	100	77-117		%REC	187647	1	02/28/2014 13:01	GK
METALS, DISSOLVED SW6010C					(SW3005A)			
Iron	0.351	0.100		mg/L	187519	1	02/27/2014 13:12	JL
Manganese	1.59	0.0150		mg/L	187519	1	02/27/2014 13:12	JL
METALS, TOTAL SW6010C					(SW3010A)			
Iron	6.66	0.100		mg/L	187758	1	03/04/2014 23:43	JL
Manganese	1.86	0.0150		mg/L	187758	1	03/04/2014 23:43	JL

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 6-Mar-14

Client: Arcadis	Client Sample ID: DPE-305(022614)
Project Name: Lafarge East Point AS/SVE/DPE-SU	Collection Date: 2/26/2014 5:43:00 PM
Lab ID: 1402M35-003	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5030B)			
1,1,1-Trichloroethane	BRL	250		ug/L	187647	50	02/27/2014 19:19	GK
1,1,2,2-Tetrachloroethane	BRL	250		ug/L	187647	50	02/27/2014 19:19	GK
1,1,2-Trichloroethane	BRL	250		ug/L	187647	50	02/27/2014 19:19	GK
1,1-Dichloroethane	BRL	250		ug/L	187647	50	02/27/2014 19:19	GK
1,1-Dichloroethene	BRL	250		ug/L	187647	50	02/27/2014 19:19	GK
1,2,4-Trichlorobenzene	BRL	250		ug/L	187647	50	02/27/2014 19:19	GK
1,2-Dibromo-3-chloropropane	BRL	250		ug/L	187647	50	02/27/2014 19:19	GK
1,2-Dibromoethane	BRL	250		ug/L	187647	50	02/27/2014 19:19	GK
1,2-Dichlorobenzene	BRL	250		ug/L	187647	50	02/27/2014 19:19	GK
1,2-Dichloroethane	BRL	250		ug/L	187647	50	02/27/2014 19:19	GK
1,2-Dichloropropane	BRL	250		ug/L	187647	50	02/27/2014 19:19	GK
1,3-Dichlorobenzene	BRL	250		ug/L	187647	50	02/27/2014 19:19	GK
1,4-Dichlorobenzene	BRL	250		ug/L	187647	50	02/27/2014 19:19	GK
2-Butanone	BRL	2500		ug/L	187647	50	02/27/2014 19:19	GK
2-Hexanone	BRL	500		ug/L	187647	50	02/27/2014 19:19	GK
4-Methyl-2-pentanone	BRL	500		ug/L	187647	50	02/27/2014 19:19	GK
Acetone	BRL	2500		ug/L	187647	50	02/27/2014 19:19	GK
Benzene	3500	250		ug/L	187647	50	02/27/2014 19:19	GK
Bromodichloromethane	BRL	250		ug/L	187647	50	02/27/2014 19:19	GK
Bromoform	BRL	250		ug/L	187647	50	02/27/2014 19:19	GK
Bromomethane	BRL	250		ug/L	187647	50	02/27/2014 19:19	GK
Carbon disulfide	BRL	250		ug/L	187647	50	02/27/2014 19:19	GK
Carbon tetrachloride	BRL	250		ug/L	187647	50	02/27/2014 19:19	GK
Chlorobenzene	BRL	250		ug/L	187647	50	02/27/2014 19:19	GK
Chloroethane	BRL	500		ug/L	187647	50	02/27/2014 19:19	GK
Chloroform	BRL	250		ug/L	187647	50	02/27/2014 19:19	GK
Chloromethane	BRL	500		ug/L	187647	50	02/27/2014 19:19	GK
cis-1,2-Dichloroethene	6800	250		ug/L	187647	50	02/27/2014 19:19	GK
cis-1,3-Dichloropropene	BRL	250		ug/L	187647	50	02/27/2014 19:19	GK
Cyclohexane	660	250		ug/L	187647	50	02/27/2014 19:19	GK
Dibromochloromethane	BRL	250		ug/L	187647	50	02/27/2014 19:19	GK
Dichlorodifluoromethane	BRL	500		ug/L	187647	50	02/27/2014 19:19	GK
Ethylbenzene	4500	250		ug/L	187647	50	02/27/2014 19:19	GK
Freon-113	BRL	500		ug/L	187647	50	02/27/2014 19:19	GK
Isopropylbenzene	BRL	250		ug/L	187647	50	02/27/2014 19:19	GK
m,p-Xylene	15000	250		ug/L	187647	50	02/27/2014 19:19	GK
Methyl acetate	BRL	250		ug/L	187647	50	02/27/2014 19:19	GK
Methyl tert-butyl ether	BRL	250		ug/L	187647	50	02/27/2014 19:19	GK
Methylcyclohexane	320	250		ug/L	187647	50	02/27/2014 19:19	GK
Methylene chloride	BRL	250		ug/L	187647	50	02/27/2014 19:19	GK
o-Xylene	4000	250		ug/L	187647	50	02/27/2014 19:19	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: DPE-305(022614)
Project Name: Lafarge East Point AS/SVE/DPE-SU	Collection Date: 2/26/2014 5:43:00 PM
Lab ID: 1402M35-003	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5030B)			
Styrene	BRL	250		ug/L	187647	50	02/27/2014 19:19	GK
Tetrachloroethene	BRL	250		ug/L	187647	50	02/27/2014 19:19	GK
Toluene	99000	2500		ug/L	187647	500	02/28/2014 21:42	GK
trans-1,2-Dichloroethene	BRL	250		ug/L	187647	50	02/27/2014 19:19	GK
trans-1,3-Dichloropropene	BRL	250		ug/L	187647	50	02/27/2014 19:19	GK
Trichloroethene	1300	250		ug/L	187647	50	02/27/2014 19:19	GK
Trichlorofluoromethane	BRL	250		ug/L	187647	50	02/27/2014 19:19	GK
Vinyl chloride	BRL	100		ug/L	187647	50	02/27/2014 19:19	GK
Surr: 4-Bromofluorobenzene	98.3	66.2-120		%REC	187647	500	02/28/2014 21:42	GK
Surr: 4-Bromofluorobenzene	98.7	66.2-120		%REC	187647	50	02/27/2014 19:19	GK
Surr: Dibromofluoromethane	100	79.5-121		%REC	187647	500	02/28/2014 21:42	GK
Surr: Dibromofluoromethane	103	79.5-121		%REC	187647	50	02/27/2014 19:19	GK
Surr: Toluene-d8	99.8	77-117		%REC	187647	500	02/28/2014 21:42	GK
Surr: Toluene-d8	100	77-117		%REC	187647	50	02/27/2014 19:19	GK
METALS, DISSOLVED SW6010C					(SW3005A)			
Iron	29.8	0.100		mg/L	187519	1	02/27/2014 13:16	JL
Manganese	7.34	0.0150		mg/L	187519	1	02/27/2014 13:16	JL
METALS, TOTAL SW6010C					(SW3010A)			
Iron	34.5	0.100		mg/L	187758	1	03/04/2014 23:47	JL
Manganese	7.25	0.0150		mg/L	187758	1	03/04/2014 23:47	JL

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 6-Mar-14

Client: Arcadis	Client Sample ID: DPE-307(022614)
Project Name: Lafarge East Point AS/SVE/DPE-SU	Collection Date: 2/26/2014 5:47:00 PM
Lab ID: 1402M35-004	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5030B)			
1,1,1-Trichloroethane	BRL	250		ug/L	187647	50	02/27/2014 19:46	GK
1,1,2,2-Tetrachloroethane	BRL	250		ug/L	187647	50	02/27/2014 19:46	GK
1,1,2-Trichloroethane	BRL	250		ug/L	187647	50	02/27/2014 19:46	GK
1,1-Dichloroethane	BRL	250		ug/L	187647	50	02/27/2014 19:46	GK
1,1-Dichloroethene	BRL	250		ug/L	187647	50	02/27/2014 19:46	GK
1,2,4-Trichlorobenzene	BRL	250		ug/L	187647	50	02/27/2014 19:46	GK
1,2-Dibromo-3-chloropropane	BRL	250		ug/L	187647	50	02/27/2014 19:46	GK
1,2-Dibromoethane	BRL	250		ug/L	187647	50	02/27/2014 19:46	GK
1,2-Dichlorobenzene	BRL	250		ug/L	187647	50	02/27/2014 19:46	GK
1,2-Dichloroethane	BRL	250		ug/L	187647	50	02/27/2014 19:46	GK
1,2-Dichloropropane	BRL	250		ug/L	187647	50	02/27/2014 19:46	GK
1,3-Dichlorobenzene	BRL	250		ug/L	187647	50	02/27/2014 19:46	GK
1,4-Dichlorobenzene	BRL	250		ug/L	187647	50	02/27/2014 19:46	GK
2-Butanone	BRL	2500		ug/L	187647	50	02/27/2014 19:46	GK
2-Hexanone	BRL	500		ug/L	187647	50	02/27/2014 19:46	GK
4-Methyl-2-pentanone	BRL	500		ug/L	187647	50	02/27/2014 19:46	GK
Acetone	BRL	2500		ug/L	187647	50	02/27/2014 19:46	GK
Benzene	3200	250		ug/L	187647	50	02/27/2014 19:46	GK
Bromodichloromethane	BRL	250		ug/L	187647	50	02/27/2014 19:46	GK
Bromoform	BRL	250		ug/L	187647	50	02/27/2014 19:46	GK
Bromomethane	BRL	250		ug/L	187647	50	02/27/2014 19:46	GK
Carbon disulfide	BRL	250		ug/L	187647	50	02/27/2014 19:46	GK
Carbon tetrachloride	BRL	250		ug/L	187647	50	02/27/2014 19:46	GK
Chlorobenzene	BRL	250		ug/L	187647	50	02/27/2014 19:46	GK
Chloroethane	BRL	500		ug/L	187647	50	02/27/2014 19:46	GK
Chloroform	BRL	250		ug/L	187647	50	02/27/2014 19:46	GK
Chloromethane	BRL	500		ug/L	187647	50	02/27/2014 19:46	GK
cis-1,2-Dichloroethene	550	250		ug/L	187647	50	02/27/2014 19:46	GK
cis-1,3-Dichloropropene	BRL	250		ug/L	187647	50	02/27/2014 19:46	GK
Cyclohexane	430	250		ug/L	187647	50	02/27/2014 19:46	GK
Dibromochloromethane	BRL	250		ug/L	187647	50	02/27/2014 19:46	GK
Dichlorodifluoromethane	BRL	500		ug/L	187647	50	02/27/2014 19:46	GK
Ethylbenzene	720	250		ug/L	187647	50	02/27/2014 19:46	GK
Freon-113	BRL	500		ug/L	187647	50	02/27/2014 19:46	GK
Isopropylbenzene	BRL	250		ug/L	187647	50	02/27/2014 19:46	GK
m,p-Xylene	2300	250		ug/L	187647	50	02/27/2014 19:46	GK
Methyl acetate	BRL	250		ug/L	187647	50	02/27/2014 19:46	GK
Methyl tert-butyl ether	BRL	250		ug/L	187647	50	02/27/2014 19:46	GK
Methylcyclohexane	360	250		ug/L	187647	50	02/27/2014 19:46	GK
Methylene chloride	BRL	250		ug/L	187647	50	02/27/2014 19:46	GK
o-Xylene	610	250		ug/L	187647	50	02/27/2014 19:46	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 6-Mar-14

Client: Arcadis	Client Sample ID: DPE-307(022614)
Project Name: Lafarge East Point AS/SVE/DPE-SU	Collection Date: 2/26/2014 5:47:00 PM
Lab ID: 1402M35-004	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B			(SW5030B)					
Styrene	BRL	250		ug/L	187647	50	02/27/2014 19:46	GK
Tetrachloroethene	BRL	250		ug/L	187647	50	02/27/2014 19:46	GK
Toluene	250000	25000		ug/L	187647	5000	02/28/2014 21:14	GK
trans-1,2-Dichloroethene	BRL	250		ug/L	187647	50	02/27/2014 19:46	GK
trans-1,3-Dichloropropene	BRL	250		ug/L	187647	50	02/27/2014 19:46	GK
Trichloroethene	BRL	250		ug/L	187647	50	02/27/2014 19:46	GK
Trichlorofluoromethane	BRL	250		ug/L	187647	50	02/27/2014 19:46	GK
Vinyl chloride	BRL	100		ug/L	187647	50	02/27/2014 19:46	GK
Surr: 4-Bromofluorobenzene	94.7	66.2-120		%REC	187647	5000	02/28/2014 21:14	GK
Surr: 4-Bromofluorobenzene	99	66.2-120		%REC	187647	50	02/27/2014 19:46	GK
Surr: Dibromofluoromethane	99.2	79.5-121		%REC	187647	5000	02/28/2014 21:14	GK
Surr: Dibromofluoromethane	101	79.5-121		%REC	187647	50	02/27/2014 19:46	GK
Surr: Toluene-d8	99.3	77-117		%REC	187647	50	02/27/2014 19:46	GK
Surr: Toluene-d8	100	77-117		%REC	187647	5000	02/28/2014 21:14	GK
METALS, DISSOLVED SW6010C			(SW3005A)					
Iron	8.04	0.100		mg/L	187519	1	02/27/2014 13:19	JL
Manganese	13.0	0.0150		mg/L	187519	1	02/27/2014 13:19	JL
METALS, TOTAL SW6010C			(SW3010A)					
Iron	53.7	0.100		mg/L	187758	1	03/04/2014 23:51	JL
Manganese	13.6	0.0150		mg/L	187758	1	03/04/2014 23:51	JL

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: DPE-313(022614)
Project Name: Lafarge East Point AS/SVE/DPE-SU	Collection Date: 2/26/2014 5:51:00 PM
Lab ID: 1402M35-005	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B		(SW5030B)						
1,1,1-Trichloroethane	BRL	5.0		ug/L	187647	1	02/28/2014 20:47	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	187647	1	02/28/2014 20:47	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	187647	1	02/28/2014 20:47	GK
1,1-Dichloroethane	BRL	5.0		ug/L	187647	1	02/28/2014 20:47	GK
1,1-Dichloroethene	BRL	5.0		ug/L	187647	1	02/28/2014 20:47	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	187647	1	02/28/2014 20:47	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	187647	1	02/28/2014 20:47	GK
1,2-Dibromoethane	BRL	5.0		ug/L	187647	1	02/28/2014 20:47	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	187647	1	02/28/2014 20:47	GK
1,2-Dichloroethane	BRL	5.0		ug/L	187647	1	02/28/2014 20:47	GK
1,2-Dichloropropane	BRL	5.0		ug/L	187647	1	02/28/2014 20:47	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	187647	1	02/28/2014 20:47	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	187647	1	02/28/2014 20:47	GK
2-Butanone	110	50		ug/L	187647	1	02/28/2014 20:47	GK
2-Hexanone	33	10		ug/L	187647	1	02/28/2014 20:47	GK
4-Methyl-2-pentanone	16	10		ug/L	187647	1	02/28/2014 20:47	GK
Acetone	BRL	50		ug/L	187647	1	02/28/2014 20:47	GK
Benzene	610	250		ug/L	187647	50	02/27/2014 20:13	GK
Bromodichloromethane	BRL	5.0		ug/L	187647	1	02/28/2014 20:47	GK
Bromoform	BRL	5.0		ug/L	187647	1	02/28/2014 20:47	GK
Bromomethane	BRL	5.0		ug/L	187647	1	02/28/2014 20:47	GK
Carbon disulfide	BRL	5.0		ug/L	187647	1	02/28/2014 20:47	GK
Carbon tetrachloride	BRL	5.0		ug/L	187647	1	02/28/2014 20:47	GK
Chlorobenzene	BRL	5.0		ug/L	187647	1	02/28/2014 20:47	GK
Chloroethane	BRL	10		ug/L	187647	1	02/28/2014 20:47	GK
Chloroform	BRL	5.0		ug/L	187647	1	02/28/2014 20:47	GK
Chloromethane	BRL	10		ug/L	187647	1	02/28/2014 20:47	GK
cis-1,2-Dichloroethene	69	5.0		ug/L	187647	1	02/28/2014 20:47	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	187647	1	02/28/2014 20:47	GK
Cyclohexane	1900	250		ug/L	187647	50	02/27/2014 20:13	GK
Dibromochloromethane	BRL	5.0		ug/L	187647	1	02/28/2014 20:47	GK
Dichlorodifluoromethane	BRL	10		ug/L	187647	1	02/28/2014 20:47	GK
Ethylbenzene	840	250		ug/L	187647	50	02/27/2014 20:13	GK
Freon-113	BRL	10		ug/L	187647	1	02/28/2014 20:47	GK
Isopropylbenzene	7.8	5.0		ug/L	187647	1	02/28/2014 20:47	GK
m,p-Xylene	2600	250		ug/L	187647	50	02/27/2014 20:13	GK
Methyl acetate	BRL	5.0		ug/L	187647	1	02/28/2014 20:47	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	187647	1	02/28/2014 20:47	GK
Methylcyclohexane	54	5.0		ug/L	187647	1	02/28/2014 20:47	GK
Methylene chloride	BRL	5.0		ug/L	187647	1	02/28/2014 20:47	GK
o-Xylene	390	250		ug/L	187647	50	02/27/2014 20:13	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: DPE-313(022614)
Project Name: Lafarge East Point AS/SVE/DPE-SU	Collection Date: 2/26/2014 5:51:00 PM
Lab ID: 1402M35-005	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5030B)			
Styrene	BRL	5.0		ug/L	187647	1	02/28/2014 20:47	GK
Tetrachloroethene	BRL	5.0		ug/L	187647	1	02/28/2014 20:47	GK
Toluene	64	5.0		ug/L	187647	1	02/28/2014 20:47	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	187647	1	02/28/2014 20:47	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	187647	1	02/28/2014 20:47	GK
Trichloroethene	BRL	5.0		ug/L	187647	1	02/28/2014 20:47	GK
Trichlorofluoromethane	BRL	5.0		ug/L	187647	1	02/28/2014 20:47	GK
Vinyl chloride	4.7	2.0		ug/L	187647	1	02/28/2014 20:47	GK
Surr: 4-Bromofluorobenzene	96.1	66.2-120		%REC	187647	50	02/27/2014 20:13	GK
Surr: 4-Bromofluorobenzene	102	66.2-120		%REC	187647	1	02/28/2014 20:47	GK
Surr: Dibromofluoromethane	101	79.5-121		%REC	187647	50	02/27/2014 20:13	GK
Surr: Dibromofluoromethane	99.5	79.5-121		%REC	187647	1	02/28/2014 20:47	GK
Surr: Toluene-d8	98.9	77-117		%REC	187647	50	02/27/2014 20:13	GK
Surr: Toluene-d8	102	77-117		%REC	187647	1	02/28/2014 20:47	GK
METALS, DISSOLVED SW6010C					(SW3005A)			
Iron	13.1	0.100		mg/L	187519	1	02/27/2014 13:23	JL
Manganese	7.93	0.0150		mg/L	187519	1	02/27/2014 13:23	JL
METALS, TOTAL SW6010C					(SW3010A)			
Iron	42.4	0.100		mg/L	187758	1	03/04/2014 23:55	JL
Manganese	7.75	0.0150		mg/L	187758	1	03/04/2014 23:55	JL

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 6-Mar-14

Client: Arcadis	Client Sample ID: DPE-408(022614)
Project Name: Lafarge East Point AS/SVE/DPE-SU	Collection Date: 2/26/2014 5:33:00 PM
Lab ID: 1402M35-006	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5030B)			
1,1,1-Trichloroethane	BRL	250		ug/L	187647	50	02/28/2014 12:34	GK
1,1,2,2-Tetrachloroethane	BRL	250		ug/L	187647	50	02/28/2014 12:34	GK
1,1,2-Trichloroethane	BRL	250		ug/L	187647	50	02/28/2014 12:34	GK
1,1-Dichloroethane	BRL	250		ug/L	187647	50	02/28/2014 12:34	GK
1,1-Dichloroethene	BRL	250		ug/L	187647	50	02/28/2014 12:34	GK
1,2,4-Trichlorobenzene	BRL	250		ug/L	187647	50	02/28/2014 12:34	GK
1,2-Dibromo-3-chloropropane	BRL	250		ug/L	187647	50	02/28/2014 12:34	GK
1,2-Dibromoethane	BRL	250		ug/L	187647	50	02/28/2014 12:34	GK
1,2-Dichlorobenzene	BRL	250		ug/L	187647	50	02/28/2014 12:34	GK
1,2-Dichloroethane	BRL	250		ug/L	187647	50	02/28/2014 12:34	GK
1,2-Dichloropropane	BRL	250		ug/L	187647	50	02/28/2014 12:34	GK
1,3-Dichlorobenzene	BRL	250		ug/L	187647	50	02/28/2014 12:34	GK
1,4-Dichlorobenzene	BRL	250		ug/L	187647	50	02/28/2014 12:34	GK
2-Butanone	BRL	2500		ug/L	187647	50	02/28/2014 12:34	GK
2-Hexanone	BRL	500		ug/L	187647	50	02/28/2014 12:34	GK
4-Methyl-2-pentanone	BRL	500		ug/L	187647	50	02/28/2014 12:34	GK
Acetone	BRL	2500		ug/L	187647	50	02/28/2014 12:34	GK
Benzene	3300	250		ug/L	187647	50	02/28/2014 12:34	GK
Bromodichloromethane	BRL	250		ug/L	187647	50	02/28/2014 12:34	GK
Bromoform	BRL	250		ug/L	187647	50	02/28/2014 12:34	GK
Bromomethane	BRL	250		ug/L	187647	50	02/28/2014 12:34	GK
Carbon disulfide	BRL	250		ug/L	187647	50	02/28/2014 12:34	GK
Carbon tetrachloride	BRL	250		ug/L	187647	50	02/28/2014 12:34	GK
Chlorobenzene	BRL	250		ug/L	187647	50	02/28/2014 12:34	GK
Chloroethane	BRL	500		ug/L	187647	50	02/28/2014 12:34	GK
Chloroform	BRL	250		ug/L	187647	50	02/28/2014 12:34	GK
Chloromethane	BRL	500		ug/L	187647	50	02/28/2014 12:34	GK
cis-1,2-Dichloroethene	970	250		ug/L	187647	50	02/28/2014 12:34	GK
cis-1,3-Dichloropropene	BRL	250		ug/L	187647	50	02/28/2014 12:34	GK
Cyclohexane	1100	250		ug/L	187647	50	02/28/2014 12:34	GK
Dibromochloromethane	BRL	250		ug/L	187647	50	02/28/2014 12:34	GK
Dichlorodifluoromethane	BRL	500		ug/L	187647	50	02/28/2014 12:34	GK
Ethylbenzene	750	250		ug/L	187647	50	02/28/2014 12:34	GK
Freon-113	BRL	500		ug/L	187647	50	02/28/2014 12:34	GK
Isopropylbenzene	BRL	250		ug/L	187647	50	02/28/2014 12:34	GK
m,p-Xylene	2600	250		ug/L	187647	50	02/28/2014 12:34	GK
Methyl acetate	BRL	250		ug/L	187647	50	02/28/2014 12:34	GK
Methyl tert-butyl ether	BRL	250		ug/L	187647	50	02/28/2014 12:34	GK
Methylcyclohexane	530	250		ug/L	187647	50	02/28/2014 12:34	GK
Methylene chloride	BRL	250		ug/L	187647	50	02/28/2014 12:34	GK
o-Xylene	720	250		ug/L	187647	50	02/28/2014 12:34	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 6-Mar-14

Client: Arcadis	Client Sample ID: DPE-408(022614)
Project Name: Lafarge East Point AS/SVE/DPE-SU	Collection Date: 2/26/2014 5:33:00 PM
Lab ID: 1402M35-006	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B			(SW5030B)					
Styrene	BRL	250		ug/L	187647	50	02/28/2014 12:34	GK
Tetrachloroethene	BRL	250		ug/L	187647	50	02/28/2014 12:34	GK
Toluene	15000	500		ug/L	187647	100	02/28/2014 22:09	GK
trans-1,2-Dichloroethene	BRL	250		ug/L	187647	50	02/28/2014 12:34	GK
trans-1,3-Dichloropropene	BRL	250		ug/L	187647	50	02/28/2014 12:34	GK
Trichloroethene	BRL	250		ug/L	187647	50	02/28/2014 12:34	GK
Trichlorofluoromethane	BRL	250		ug/L	187647	50	02/28/2014 12:34	GK
Vinyl chloride	BRL	100		ug/L	187647	50	02/28/2014 12:34	GK
Surr: 4-Bromofluorobenzene	98.9	66.2-120		%REC	187647	50	02/28/2014 12:34	GK
Surr: 4-Bromofluorobenzene	98.2	66.2-120		%REC	187647	100	02/28/2014 22:09	GK
Surr: Dibromofluoromethane	98	79.5-121		%REC	187647	50	02/28/2014 12:34	GK
Surr: Dibromofluoromethane	102	79.5-121		%REC	187647	100	02/28/2014 22:09	GK
Surr: Toluene-d8	99.3	77-117		%REC	187647	50	02/28/2014 12:34	GK
Surr: Toluene-d8	101	77-117		%REC	187647	100	02/28/2014 22:09	GK
METALS, DISSOLVED SW6010C			(SW3005A)					
Iron	8.38	0.100		mg/L	187519	1	02/27/2014 13:27	JL
Manganese	3.98	0.0150		mg/L	187519	1	02/27/2014 13:27	JL
METALS, TOTAL SW6010C			(SW3010A)					
Iron	18.0	0.100		mg/L	187758	1	03/04/2014 23:59	JL
Manganese	3.94	0.0150		mg/L	187758	1	03/04/2014 23:59	JL

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Arcadis

Work Order Number 1402M35

Checklist completed by Jam B 2/27/14
Signature Date

Carrier name: FedEx UPS Courier Client US Mail Other

Shipping container/cooler in good condition? Yes No Not Present
Custody seals intact on shipping container/cooler? Yes No Not Present
Custody seals intact on sample bottles? Yes No Not Present
Container/Temp Blank temperature in compliance? (4°C±2)* Yes No

Cooler #1 3-0 Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler #5 _____ Cooler #6 _____

Chain of custody present? Yes No
Chain of custody signed when relinquished and received? Yes No
Chain of custody agrees with sample labels? Yes No
Samples in proper container/bottle? Yes No
Sample containers intact? Yes No
Sufficient sample volume for indicated test? Yes No
All samples received within holding time? Yes No
Was TAT marked on the COC? Yes No
Proceed with Standard TAT as per project history? Yes No Not Applicable
Water - VOA vials have zero headspace? No VOA vials submitted Yes No
Water - pH acceptable upon receipt? Yes No Not Applicable

Adjusted? _____ Checked by JB

Sample Condition: Good Other(Explain) _____
(For diffusive samples or AIHA lead) Is a known blank included? Yes No

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

Client: Arcadis
 Project: Lafarge East Point AS/SVE/DPE-SU
 Lab Order: 1402M35

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1402M35-001A	DPE-109(022614)	2/26/2014 5:37:00PM	Groundwater	TCL VOLATILE ORGANICS		02/27/2014	02/27/2014
1402M35-001B	DPE-109(022614)	2/26/2014 5:37:00PM	Groundwater	DISSOLVED METALS BY ICP		02/27/2014	02/27/2014
1402M35-001C	DPE-109(022614)	2/26/2014 5:37:00PM	Groundwater	TOTAL METALS BY ICP		03/04/2014	03/04/2014
1402M35-002A	DPE-118(022614)	2/26/2014 5:40:00PM	Groundwater	TCL VOLATILE ORGANICS		02/27/2014	02/27/2014
1402M35-002A	DPE-118(022614)	2/26/2014 5:40:00PM	Groundwater	TCL VOLATILE ORGANICS		02/27/2014	02/28/2014
1402M35-002B	DPE-118(022614)	2/26/2014 5:40:00PM	Groundwater	DISSOLVED METALS BY ICP		02/27/2014	02/27/2014
1402M35-002C	DPE-118(022614)	2/26/2014 5:40:00PM	Groundwater	TOTAL METALS BY ICP		03/04/2014	03/04/2014
1402M35-003A	DPE-305(022614)	2/26/2014 5:43:00PM	Groundwater	TCL VOLATILE ORGANICS		02/27/2014	02/27/2014
1402M35-003A	DPE-305(022614)	2/26/2014 5:43:00PM	Groundwater	TCL VOLATILE ORGANICS		02/27/2014	02/28/2014
1402M35-003B	DPE-305(022614)	2/26/2014 5:43:00PM	Groundwater	DISSOLVED METALS BY ICP		02/27/2014	02/27/2014
1402M35-003C	DPE-305(022614)	2/26/2014 5:43:00PM	Groundwater	TOTAL METALS BY ICP		03/04/2014	03/04/2014
1402M35-004A	DPE-307(022614)	2/26/2014 5:47:00PM	Groundwater	TCL VOLATILE ORGANICS		02/27/2014	02/27/2014
1402M35-004A	DPE-307(022614)	2/26/2014 5:47:00PM	Groundwater	TCL VOLATILE ORGANICS		02/27/2014	02/28/2014
1402M35-004B	DPE-307(022614)	2/26/2014 5:47:00PM	Groundwater	DISSOLVED METALS BY ICP		02/27/2014	02/27/2014
1402M35-004C	DPE-307(022614)	2/26/2014 5:47:00PM	Groundwater	TOTAL METALS BY ICP		03/04/2014	03/04/2014
1402M35-005A	DPE-313(022614)	2/26/2014 5:51:00PM	Groundwater	TCL VOLATILE ORGANICS		02/27/2014	02/27/2014
1402M35-005A	DPE-313(022614)	2/26/2014 5:51:00PM	Groundwater	TCL VOLATILE ORGANICS		02/27/2014	02/28/2014
1402M35-005B	DPE-313(022614)	2/26/2014 5:51:00PM	Groundwater	DISSOLVED METALS BY ICP		02/27/2014	02/27/2014
1402M35-005C	DPE-313(022614)	2/26/2014 5:51:00PM	Groundwater	TOTAL METALS BY ICP		03/04/2014	03/04/2014
1402M35-006A	DPE-408(022614)	2/26/2014 5:33:00PM	Groundwater	TCL VOLATILE ORGANICS		02/27/2014	02/28/2014
1402M35-006B	DPE-408(022614)	2/26/2014 5:33:00PM	Groundwater	DISSOLVED METALS BY ICP		02/27/2014	02/27/2014
1402M35-006C	DPE-408(022614)	2/26/2014 5:33:00PM	Groundwater	TOTAL METALS BY ICP		03/04/2014	03/04/2014

Client: Arcadis
Project Name: Lafarge East Point AS/SVE/DPE-SU
Workorder: 1402M35

ANALYTICAL QC SUMMARY REPORT

BatchID: 187519

Sample ID: MB-187519	Client ID:	Units: mg/L	Prep Date: 02/26/2014	Run No: 262054							
SampleType: MBLK	TestCode: METALS, DISSOLVED SW6010C	BatchID: 187519	Analysis Date: 02/26/2014	Seq No: 5509511							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Iron BRL 0.100
Manganese BRL 0.0150

Sample ID: LCS-187519	Client ID:	Units: mg/L	Prep Date: 02/26/2014	Run No: 262054							
SampleType: LCS	TestCode: METALS, DISSOLVED SW6010C	BatchID: 187519	Analysis Date: 02/26/2014	Seq No: 5509510							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Iron 9.901 0.100 10.00 99.0 80 120
Manganese 1.000 0.0150 1.000 100 80 120

Sample ID: 1402J21-007AMS	Client ID:	Units: mg/L	Prep Date: 02/26/2014	Run No: 262054							
SampleType: MS	TestCode: METALS, DISSOLVED SW6010C	BatchID: 187519	Analysis Date: 02/26/2014	Seq No: 5509514							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Iron 9.912 0.100 10.00 0.1554 97.6 75 125
Manganese 1.013 0.0150 1.000 0.03058 98.2 75 125

Sample ID: 1402J21-007AMSD	Client ID:	Units: mg/L	Prep Date: 02/26/2014	Run No: 262054							
SampleType: MSD	TestCode: METALS, DISSOLVED SW6010C	BatchID: 187519	Analysis Date: 02/26/2014	Seq No: 5509516							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Iron 10.29 0.100 10.00 0.1554 101 75 125 9.912 3.74 20
Manganese 1.053 0.0150 1.000 0.03058 102 75 125 1.013 3.92 20

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Arcadis
Project Name: Lafarge East Point AS/SVE/DPE-SU
Workorder: 1402M35

ANALYTICAL QC SUMMARY REPORT

BatchID: 187647

Sample ID: MB-187647	Client ID:	Units: ug/L	Prep Date: 02/27/2014	Run No: 262094							
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 187647	Analysis Date: 02/27/2014	Seq No: 5512010							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
2-Butanone	BRL	50									
2-Hexanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	50									
Benzene	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon disulfide	BRL	5.0									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									
Chloroform	BRL	5.0									
Chloromethane	BRL	10									

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
Project Name: Lafarge East Point AS/SVE/DPE-SU
Workorder: 1402M35

ANALYTICAL QC SUMMARY REPORT

BatchID: 187647

Sample ID: MB-187647	Client ID:	Units: ug/L	Prep Date: 02/27/2014	Run No: 262094							
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 187647	Analysis Date: 02/27/2014	Seq No: 5512010							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	5.0									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	2.0									
Surr: 4-Bromofluorobenzene	48.73	0	50.00		97.5	66.2	120				
Surr: Dibromofluoromethane	51.12	0	50.00		102	79.5	121				
Surr: Toluene-d8	49.56	0	50.00		99.1	77	117				

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
Project Name: Lafarge East Point AS/SVE/DPE-SU
Workorder: 1402M35

ANALYTICAL QC SUMMARY REPORT

BatchID: 187647

Sample ID: LCS-187647	Client ID:	Units: ug/L	Prep Date: 02/27/2014	Run No: 262094							
SampleType: LCS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 187647	Analysis Date: 02/27/2014	Seq No: 5512024							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	43.75	5.0	50.00		87.5	63.1	140				
Benzene	47.73	5.0	50.00		95.5	74.2	129				
Chlorobenzene	49.78	5.0	50.00		99.6	70	129				
Toluene	48.80	5.0	50.00		97.6	74.2	129				
Trichloroethene	48.36	5.0	50.00		96.7	71.2	135				
Surr: 4-Bromofluorobenzene	49.98	0	50.00		100.0	66.2	120				
Surr: Dibromofluoromethane	50.94	0	50.00		102	79.5	121				
Surr: Toluene-d8	49.60	0	50.00		99.2	77	117				

Sample ID: 1402M35-001AMS	Client ID: DPE-109(022614)	Units: ug/L	Prep Date: 02/27/2014	Run No: 262094							
SampleType: MS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 187647	Analysis Date: 02/27/2014	Seq No: 5512182							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	2678	250	2500		107	60.2	159				
Benzene	2642	250	2500	35.00	104	70.2	138				
Chlorobenzene	2594	250	2500		104	70.1	133				
Toluene	11970	250	2500	8994	119	70	139				E
Trichloroethene	4361	250	2500	1562	112	70.1	144				
Surr: 4-Bromofluorobenzene	2512	0	2500		100	66.2	120				
Surr: Dibromofluoromethane	2624	0	2500		105	79.5	121				
Surr: Toluene-d8	2504	0	2500		100	77	117				

Sample ID: 1402M35-001AMSD	Client ID: DPE-109(022614)	Units: ug/L	Prep Date: 02/27/2014	Run No: 262094							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 187647	Analysis Date: 02/27/2014	Seq No: 5512202							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	2705	250	2500		108	60.2	159	2678	0.984	19.2	
Benzene	2664	250	2500	35.00	105	70.2	138	2642	0.829	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
Project Name: Lafarge East Point AS/SVE/DPE-SU
Workorder: 1402M35

ANALYTICAL QC SUMMARY REPORT

BatchID: 187647

Sample ID: 1402M35-001AMSD	Client ID: DPE-109(022614)	Units: ug/L	Prep Date: 02/27/2014	Run No: 262094
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 187647	Analysis Date: 02/27/2014	Seq No: 5512202

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	2605	250	2500		104	70.1	133	2594	0.404	20	
Toluene	11940	250	2500	8994	118	70	139	11970	0.263	20	E
Trichloroethene	4371	250	2500	1562	112	70.1	144	4361	0.229	20	
Surr: 4-Bromofluorobenzene	2500	0	2500		100.0	66.2	120	2512	0	0	
Surr: Dibromofluoromethane	2582	0	2500		103	79.5	121	2624	0	0	
Surr: Toluene-d8	2523	0	2500		101	77	117	2504	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
Project Name: Lafarge East Point AS/SVE/DPE-SU
Workorder: 1402M35

ANALYTICAL QC SUMMARY REPORT

BatchID: 187758

Sample ID: MB-187758	Client ID:	Units: mg/L	Prep Date: 03/04/2014	Run No: 262529							
SampleType: MBLK	TestCode: METALS, TOTAL SW6010C	BatchID: 187758	Analysis Date: 03/04/2014	Seq No: 5519911							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Iron BRL 0.100
Manganese BRL 0.0150

Sample ID: LCS-187758	Client ID:	Units: mg/L	Prep Date: 03/04/2014	Run No: 262529							
SampleType: LCS	TestCode: METALS, TOTAL SW6010C	BatchID: 187758	Analysis Date: 03/04/2014	Seq No: 5519910							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Iron 9.865 0.100 10.00 98.6 80 120
Manganese 1.025 0.0150 1.000 102 80 120

Sample ID: 1402O75-001AMS	Client ID:	Units: mg/L	Prep Date: 03/04/2014	Run No: 262529							
SampleType: MS	TestCode: METALS, TOTAL SW6010C	BatchID: 187758	Analysis Date: 03/04/2014	Seq No: 5519913							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Iron 30.37 0.100 10.00 21.41 89.6 75 125
Manganese 1.171 0.0150 1.000 0.2968 87.4 75 125

Sample ID: 1402O75-001AMSD	Client ID:	Units: mg/L	Prep Date: 03/04/2014	Run No: 262529							
SampleType: MSD	TestCode: METALS, TOTAL SW6010C	BatchID: 187758	Analysis Date: 03/04/2014	Seq No: 5519914							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Iron 29.93 0.100 10.00 21.41 85.1 75 125 30.37 1.48 20
Manganese 1.151 0.0150 1.000 0.2968 85.4 75 125 1.171 1.70 20

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix



March 11, 2014

Peter Cornais
Arcadis
2081 Vista Parkway, Suite 200
West Palm Beach FL 33411

TEL: (850) 445-0829
FAX:

RE: Lafarge EP

Dear Peter Cornais:

Order No: 1403756

Analytical Environmental Services, Inc. received 1 samples on March 8, 2014 12:12 pm for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/13-06/30/14.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/15.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Chantelle Kanhai
Project Manager



ANALYTICAL ENVIRONMENTAL SERVICES, INC
 3080 Presidential Drive, Atlanta GA 30340-3704
AES TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1403756

Date: 030714 Page 1 of 1

#	SAMPLE ID	SAMPLING		Grab	Composite	Matrix (See codes)	ANALYSIS REQUESTED		REMARKS	No # of Containers
		DATE	TIME				PRESERVATION (See codes)			
1	MW-32 (030714)	030714	1455	X		GW				2
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
D. Dornig	3/8/14 0940	Frankenhan	3/8/14 0940
Frankenhan	3/8/14 1210	AmB	3/8/14 12.12

COMPANY:	ADDRESS:
ARCADIS	1000 Cobb Place Blvd. Bldg 500A Kennesaw, GA 30144
PHONE:	FAX:
770.428.9009	770.428.4004
SAMPLED BY:	SIGNATURE:
D. Dornig	<i>[Signature]</i>

PROJECT NAME:	PROJECT INFORMATION
Lafarge E.P.	
PROJECT #:	HT212-446-0014
SITE ADDRESS:	2675 R.N. Martin St. East Point, GA
SEND REPORT TO:	Peter, Corraiss
INVOICE TO:	arcadis-us.com
(IF DIFFERENT FROM ABOVE)	
QUOTE #:	PO#:

SHIPMENT METHOD	OUT / /	VIA:
	IN 3/8/14	VIA: CLIENT FedEx UPS MAIL COURIER
		GREYHOUND OTHER

SPECIAL INSTRUCTIONS/COMMENTS:
 24 hr. TAT!

STATE PROGRAM (if any):
 E-mail? Y / N, Fax? Y / N
 DATA PACKAGE: I II III IV
 Turnaround Time Request:
 Standard 5 Business Days
 2 Business Day Rush
 Next Business Day Rush
 Same Day Rush (auth req.)
 Other
 Total # of Containers: 2
 VISIT OUR WEBSITE: www.aesatlanta.com
 to check on the status of your results, place bottle orders, etc.
 PRESERVATION (See codes): H Z
 MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water
 PRESERVATIVE CODES: H+1 = Hydrochloric acid + ice I = Ice only N = Nitric acid S+1 = Sulfuric acid + ice S/M+1 = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None
 SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES.
 SAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMPLETION UNLESS OTHER ARRANGEMENTS ARE MADE.
 Page 1 of 1

Client: Arcadis	Client Sample ID: MW-32(030714)
Project Name: Lafarge EP	Collection Date: 3/7/2014 2:55:00 PM
Lab ID: 1403756-001	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	188061	1	03/10/2014 15:41	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	188061	1	03/10/2014 15:41	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	188061	1	03/10/2014 15:41	NP
1,1-Dichloroethane	BRL	5.0		ug/L	188061	1	03/10/2014 15:41	NP
1,1-Dichloroethene	BRL	5.0		ug/L	188061	1	03/10/2014 15:41	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	188061	1	03/10/2014 15:41	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	188061	1	03/10/2014 15:41	NP
1,2-Dibromoethane	BRL	5.0		ug/L	188061	1	03/10/2014 15:41	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	188061	1	03/10/2014 15:41	NP
1,2-Dichloroethane	BRL	5.0		ug/L	188061	1	03/10/2014 15:41	NP
1,2-Dichloropropane	BRL	5.0		ug/L	188061	1	03/10/2014 15:41	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	188061	1	03/10/2014 15:41	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	188061	1	03/10/2014 15:41	NP
2-Butanone	BRL	50		ug/L	188061	1	03/10/2014 15:41	NP
2-Hexanone	BRL	10		ug/L	188061	1	03/10/2014 15:41	NP
4-Methyl-2-pentanone	BRL	10		ug/L	188061	1	03/10/2014 15:41	NP
Acetone	BRL	50		ug/L	188061	1	03/10/2014 15:41	NP
Benzene	BRL	5.0		ug/L	188061	1	03/10/2014 15:41	NP
Bromodichloromethane	BRL	5.0		ug/L	188061	1	03/10/2014 15:41	NP
Bromoform	BRL	5.0		ug/L	188061	1	03/10/2014 15:41	NP
Bromomethane	BRL	5.0		ug/L	188061	1	03/10/2014 15:41	NP
Carbon disulfide	BRL	5.0		ug/L	188061	1	03/10/2014 15:41	NP
Carbon tetrachloride	BRL	5.0		ug/L	188061	1	03/10/2014 15:41	NP
Chlorobenzene	BRL	5.0		ug/L	188061	1	03/10/2014 15:41	NP
Chloroethane	BRL	10		ug/L	188061	1	03/10/2014 15:41	NP
Chloroform	BRL	5.0		ug/L	188061	1	03/10/2014 15:41	NP
Chloromethane	BRL	10		ug/L	188061	1	03/10/2014 15:41	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	188061	1	03/10/2014 15:41	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	188061	1	03/10/2014 15:41	NP
Cyclohexane	BRL	5.0		ug/L	188061	1	03/10/2014 15:41	NP
Dibromochloromethane	BRL	5.0		ug/L	188061	1	03/10/2014 15:41	NP
Dichlorodifluoromethane	BRL	10		ug/L	188061	1	03/10/2014 15:41	NP
Ethylbenzene	16	5.0		ug/L	188061	1	03/10/2014 15:41	NP
Freon-113	BRL	10		ug/L	188061	1	03/10/2014 15:41	NP
Isopropylbenzene	BRL	5.0		ug/L	188061	1	03/10/2014 15:41	NP
m,p-Xylene	BRL	5.0		ug/L	188061	1	03/10/2014 15:41	NP
Methyl acetate	BRL	5.0		ug/L	188061	1	03/10/2014 15:41	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	188061	1	03/10/2014 15:41	NP
Methylcyclohexane	BRL	5.0		ug/L	188061	1	03/10/2014 15:41	NP
Methylene chloride	BRL	5.0		ug/L	188061	1	03/10/2014 15:41	NP
o-Xylene	17	5.0		ug/L	188061	1	03/10/2014 15:41	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: MW-32(030714)
Project Name: Lafarge EP	Collection Date: 3/7/2014 2:55:00 PM
Lab ID: 1403756-001	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	188061	1	03/10/2014 15:41	NP
Tetrachloroethene	BRL	5.0		ug/L	188061	1	03/10/2014 15:41	NP
Toluene	55	5.0		ug/L	188061	1	03/10/2014 15:41	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	188061	1	03/10/2014 15:41	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	188061	1	03/10/2014 15:41	NP
Trichloroethene	11000	500		ug/L	188061	100	03/10/2014 17:51	NP
Trichlorofluoromethane	BRL	5.0		ug/L	188061	1	03/10/2014 15:41	NP
Vinyl chloride	BRL	2.0		ug/L	188061	1	03/10/2014 15:41	NP
Surr: 4-Bromofluorobenzene	91.6	66.2-120		%REC	188061	100	03/10/2014 17:51	NP
Surr: 4-Bromofluorobenzene	93.8	66.2-120		%REC	188061	1	03/10/2014 15:41	NP
Surr: Dibromofluoromethane	104	79.5-121		%REC	188061	1	03/10/2014 15:41	NP
Surr: Dibromofluoromethane	104	79.5-121		%REC	188061	100	03/10/2014 17:51	NP
Surr: Toluene-d8	96.9	77-117		%REC	188061	100	03/10/2014 17:51	NP
Surr: Toluene-d8	101	77-117		%REC	188061	1	03/10/2014 15:41	NP

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Arcais

Work Order Number 1403756

Checklist completed by [Signature] 3-8-14
Signature Date

Carrier name: FedEx UPS Courier Client US Mail Other

Shipping container/cooler in good condition? Yes No Not Present

Custody seals intact on shipping container/cooler? Yes No Not Present

Custody seals intact on sample bottles? Yes No Not Present

Container/Temp Blank temperature in compliance? (4°C±2)* Yes No

Cooler #1 3-1 Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present? Yes No

Chain of custody signed when relinquished and received? Yes No

Chain of custody agrees with sample labels? Yes No

Samples in proper container/bottle? Yes No

Sample containers intact? Yes No

Sufficient sample volume for indicated test? Yes No

All samples received within holding time? Yes No

Was TAT marked on the COC? Yes No

Proceed with Standard TAT as per project history? Yes No Not Applicable

Water - VOA vials have zero headspace? No VOA vials submitted Yes No

Water - pH acceptable upon receipt? Yes No Not Applicable

Adjusted? _____ Checked by _____

Sample Condition: Good Other(Explain) _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes No

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

Client: Arcadis
 Project Name: Lafarge EP
 Workorder: 1403756

ANALYTICAL QC SUMMARY REPORT

BatchID: 188061

Sample ID: MB-188061	Client ID:	Units: ug/L	Prep Date: 03/08/2014	Run No: 262757							
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 188061	Analysis Date: 03/08/2014	Seq No: 5525892							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
2-Butanone	BRL	50									
2-Hexanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	50									
Benzene	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon disulfide	BRL	5.0									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									
Chloroform	BRL	5.0									
Chloromethane	BRL	10									

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
 Project Name: Lafarge EP
 Workorder: 1403756

ANALYTICAL QC SUMMARY REPORT

BatchID: 188061

Sample ID: MB-188061	Client ID:	Units: ug/L	Prep Date: 03/08/2014	Run No: 262757							
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 188061	Analysis Date: 03/08/2014	Seq No: 5525892							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	5.0									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	2.0									
Surr: 4-Bromofluorobenzene	46.39	0	50.00		92.8	66.2	120				
Surr: Dibromofluoromethane	50.48	0	50.00		101	79.5	121				
Surr: Toluene-d8	50.28	0	50.00		101	77	117				

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
 Project Name: Lafarge EP
 Workorder: 1403756

ANALYTICAL QC SUMMARY REPORT

BatchID: 188061

Sample ID: LCS-188061	Client ID:	Units: ug/L	Prep Date: 03/08/2014	Run No: 262757							
SampleType: LCS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 188061	Analysis Date: 03/08/2014	Seq No: 5525891							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	43.97	5.0	50.00		87.9	63.1	140				
Benzene	49.80	5.0	50.00		99.6	74.2	129				
Chlorobenzene	48.19	5.0	50.00		96.4	70	129				
Toluene	49.18	5.0	50.00		98.4	74.2	129				
Trichloroethene	46.77	5.0	50.00		93.5	71.2	135				
Surr: 4-Bromofluorobenzene	50.15	0	50.00		100	66.2	120				
Surr: Dibromofluoromethane	52.47	0	50.00		105	79.5	121				
Surr: Toluene-d8	50.39	0	50.00		101	77	117				

Sample ID: 1403519-001AMS	Client ID:	Units: ug/L	Prep Date: 03/08/2014	Run No: 262757							
SampleType: MS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 188061	Analysis Date: 03/08/2014	Seq No: 5525897							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	1776	50	500.0	1230	109	60.2	159				
Benzene	523.1	50	500.0	5.400	104	70.2	138				
Chlorobenzene	498.9	50	500.0		99.8	70.1	133				
Toluene	509.6	50	500.0		102	70	139				
Trichloroethene	526.7	50	500.0	24.60	100	70.1	144				
Surr: 4-Bromofluorobenzene	503.1	0	500.0		101	66.2	120				
Surr: Dibromofluoromethane	520.9	0	500.0		104	79.5	121				
Surr: Toluene-d8	505.1	0	500.0		101	77	117				

Sample ID: 1403519-001AMSD	Client ID:	Units: ug/L	Prep Date: 03/08/2014	Run No: 262757							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 188061	Analysis Date: 03/08/2014	Seq No: 5525898							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	1791	50	500.0	1230	112	60.2	159	1776	0.847	19.2	
Benzene	522.2	50	500.0	5.400	103	70.2	138	523.1	0.172	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
 Project Name: Lafarge EP
 Workorder: 1403756

ANALYTICAL QC SUMMARY REPORT

BatchID: 188061

Sample ID: 1403519-001AMSD	Client ID:	Units: ug/L	Prep Date: 03/08/2014	Run No: 262757							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 188061	Analysis Date: 03/08/2014	Seq No: 5525898							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chlorobenzene	493.9	50	500.0		98.8	70.1	133	498.9	1.01	20	
Toluene	510.7	50	500.0		102	70	139	509.6	0.216	20	
Trichloroethene	517.8	50	500.0	24.60	98.6	70.1	144	526.7	1.70	20	
Surr: 4-Bromofluorobenzene	494.9	0	500.0		99.0	66.2	120	503.1	0	0	
Surr: Dibromofluoromethane	521.4	0	500.0		104	79.5	121	520.9	0	0	
Surr: Toluene-d8	509.6	0	500.0		102	77	117	505.1	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

April 14, 2014

Peter Cornais
Arcadis
2081 Vista Parkway, Suite 200
West Palm Beach FL 33411

TEL: (850) 445-0829
FAX:

RE: Lafarge E.P.

Dear Peter Cornais:

Order No: 1404848

Analytical Environmental Services, Inc. received 2 samples on 4/8/2014 11:04:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/13-06/30/14.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/15.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Chantelle Kanhai
Project Manager

CHAIN OF CUSTODY

Work Order: 1404848

Date: 04/06/14 Page 1 of 1

ANALYTICAL ENVIRONMENTAL SERVICES, INC
 3080 Presidential Drive, Atlanta GA 30340-3704
 AES TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188



COMPANY:		ADDRESS:				ANALYSIS REQUESTED		RECEIPT	
ARCADIS		1000 Cobb Place Blvd. Bldg 500A Kennesaw, GA 30144				PRESERVATION (See codes)		Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.	
PHONE: 770.425.9009		FAX: 770.428.4004				SIGNATURE: <i>DD</i>		REMARKS	
SAMPLED BY: O. Dorniny		SAMPLED		DATE		TIME		No # of Containers	
		DATE		TIME		COMPOSITE		MATRIX	
1	AS-107 (040714)	040714	1745	✓	GW				2
2	AS-115 (040714)	040714	1730	✓	GW				2
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
RELINQUISHED BY: <i>DD</i>		DATE/TIME: 04/07/14 11:04		RECEIVED BY: <i>Amber</i>		DATE/TIME: 4-7-14 18:30		PROJECT NAME: LaFarge E.P.	
SPECIAL INSTRUCTIONS/COMMENTS:		SHIPMENT METHOD: OUT / / VIA: VIA: CLIENT FedEx UPS MAIL COURIER (KEYHOUND) OTHER:		PROJECT INFORMATION: PROJECT #: HTZ12446.0014		SITE ADDRESS: 2675 K.N. Martin St. East Point, GA		Turnaround Time Request: Standard 5 Business Days	
		3: <i>Latoye R</i> 4/8/14 11:04						2 Business Day Rush	
								Next Business Day Rush	
								Same Day Rush (auth req.)	
								Other	
								Total # of Containers: 4	
								STATE PROGRAM (if any):	
								E-mail? Y/N; Fax? Y/N	
								DATA PACKAGE: I II III IV	
								QUOTE #:	
								INVOICE TO: arcadis-us.com	
								PO#:	

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES. SAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMPLETION UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SB = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water
 PRESERVATIVE CODES: H+1 = Hydrochloric acid + ice I = Ice only N = Nitric acid S11 = Sulfuric acid + ice S/M+1 = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None White Copy - Original; Yellow Copy - Client

Client: Arcadis	Client Sample ID: AS-107 (040714)
Project Name: Lafarge E.P.	Collection Date: 4/7/2014 5:45:00 PM
Lab ID: 1404848-001	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	189519	1	04/12/2014 02:28	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	189519	1	04/12/2014 02:28	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	189519	1	04/12/2014 02:28	GK
1,1-Dichloroethane	BRL	5.0		ug/L	189519	1	04/12/2014 02:28	GK
1,1-Dichloroethene	BRL	5.0		ug/L	189519	1	04/12/2014 02:28	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	189519	1	04/12/2014 02:28	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	189519	1	04/12/2014 02:28	GK
1,2-Dibromoethane	BRL	5.0		ug/L	189519	1	04/12/2014 02:28	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	189519	1	04/12/2014 02:28	GK
1,2-Dichloroethane	BRL	5.0		ug/L	189519	1	04/12/2014 02:28	GK
1,2-Dichloropropane	BRL	5.0		ug/L	189519	1	04/12/2014 02:28	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	189519	1	04/12/2014 02:28	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	189519	1	04/12/2014 02:28	GK
2-Butanone	BRL	50		ug/L	189519	1	04/12/2014 02:28	GK
2-Hexanone	BRL	10		ug/L	189519	1	04/12/2014 02:28	GK
4-Methyl-2-pentanone	BRL	10		ug/L	189519	1	04/12/2014 02:28	GK
Acetone	BRL	50		ug/L	189519	1	04/12/2014 02:28	GK
Benzene	BRL	5.0		ug/L	189519	1	04/12/2014 02:28	GK
Bromodichloromethane	BRL	5.0		ug/L	189519	1	04/12/2014 02:28	GK
Bromoform	BRL	5.0		ug/L	189519	1	04/12/2014 02:28	GK
Bromomethane	BRL	5.0		ug/L	189519	1	04/12/2014 02:28	GK
Carbon disulfide	BRL	5.0		ug/L	189519	1	04/12/2014 02:28	GK
Carbon tetrachloride	BRL	5.0		ug/L	189519	1	04/12/2014 02:28	GK
Chlorobenzene	BRL	5.0		ug/L	189519	1	04/12/2014 02:28	GK
Chloroethane	BRL	10		ug/L	189519	1	04/12/2014 02:28	GK
Chloroform	BRL	5.0		ug/L	189519	1	04/12/2014 02:28	GK
Chloromethane	BRL	10		ug/L	189519	1	04/12/2014 02:28	GK
cis-1,2-Dichloroethene	13	5.0		ug/L	189519	1	04/12/2014 02:28	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	189519	1	04/12/2014 02:28	GK
Cyclohexane	BRL	5.0		ug/L	189519	1	04/12/2014 02:28	GK
Dibromochloromethane	BRL	5.0		ug/L	189519	1	04/12/2014 02:28	GK
Dichlorodifluoromethane	BRL	10		ug/L	189519	1	04/12/2014 02:28	GK
Ethylbenzene	BRL	5.0		ug/L	189519	1	04/12/2014 02:28	GK
Freon-113	BRL	10		ug/L	189519	1	04/12/2014 02:28	GK
Isopropylbenzene	BRL	5.0		ug/L	189519	1	04/12/2014 02:28	GK
m,p-Xylene	BRL	5.0		ug/L	189519	1	04/12/2014 02:28	GK
Methyl acetate	BRL	5.0		ug/L	189519	1	04/12/2014 02:28	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	189519	1	04/12/2014 02:28	GK
Methylcyclohexane	BRL	5.0		ug/L	189519	1	04/12/2014 02:28	GK
Methylene chloride	BRL	5.0		ug/L	189519	1	04/12/2014 02:28	GK
o-Xylene	BRL	5.0		ug/L	189519	1	04/12/2014 02:28	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: AS-107 (040714)
Project Name: Lafarge E.P.	Collection Date: 4/7/2014 5:45:00 PM
Lab ID: 1404848-001	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5030B)			
Styrene	BRL	5.0		ug/L	189519	1	04/12/2014 02:28	GK
Tetrachloroethene	BRL	5.0		ug/L	189519	1	04/12/2014 02:28	GK
Toluene	BRL	5.0		ug/L	189519	1	04/12/2014 02:28	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	189519	1	04/12/2014 02:28	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	189519	1	04/12/2014 02:28	GK
Trichloroethene	BRL	5.0		ug/L	189519	1	04/12/2014 02:28	GK
Trichlorofluoromethane	BRL	5.0		ug/L	189519	1	04/12/2014 02:28	GK
Vinyl chloride	BRL	2.0		ug/L	189519	1	04/12/2014 02:28	GK
Surr: 4-Bromofluorobenzene	88.8	66.2-120		%REC	189519	1	04/12/2014 02:28	GK
Surr: Dibromofluoromethane	101	79.5-121		%REC	189519	1	04/12/2014 02:28	GK
Surr: Toluene-d8	97.5	77-117		%REC	189519	1	04/12/2014 02:28	GK

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: AS-115 (040714)
Project Name: Lafarge E.P.	Collection Date: 4/7/2014 5:30:00 PM
Lab ID: 1404848-002	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	189519	1	04/12/2014 02:56	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	189519	1	04/12/2014 02:56	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	189519	1	04/12/2014 02:56	GK
1,1-Dichloroethane	BRL	5.0		ug/L	189519	1	04/12/2014 02:56	GK
1,1-Dichloroethene	BRL	5.0		ug/L	189519	1	04/12/2014 02:56	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	189519	1	04/12/2014 02:56	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	189519	1	04/12/2014 02:56	GK
1,2-Dibromoethane	BRL	5.0		ug/L	189519	1	04/12/2014 02:56	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	189519	1	04/12/2014 02:56	GK
1,2-Dichloroethane	BRL	5.0		ug/L	189519	1	04/12/2014 02:56	GK
1,2-Dichloropropane	BRL	5.0		ug/L	189519	1	04/12/2014 02:56	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	189519	1	04/12/2014 02:56	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	189519	1	04/12/2014 02:56	GK
2-Butanone	BRL	50		ug/L	189519	1	04/12/2014 02:56	GK
2-Hexanone	BRL	10		ug/L	189519	1	04/12/2014 02:56	GK
4-Methyl-2-pentanone	BRL	10		ug/L	189519	1	04/12/2014 02:56	GK
Acetone	BRL	50		ug/L	189519	1	04/12/2014 02:56	GK
Benzene	BRL	5.0		ug/L	189519	1	04/12/2014 02:56	GK
Bromodichloromethane	BRL	5.0		ug/L	189519	1	04/12/2014 02:56	GK
Bromoform	BRL	5.0		ug/L	189519	1	04/12/2014 02:56	GK
Bromomethane	BRL	5.0		ug/L	189519	1	04/12/2014 02:56	GK
Carbon disulfide	BRL	5.0		ug/L	189519	1	04/12/2014 02:56	GK
Carbon tetrachloride	BRL	5.0		ug/L	189519	1	04/12/2014 02:56	GK
Chlorobenzene	BRL	5.0		ug/L	189519	1	04/12/2014 02:56	GK
Chloroethane	BRL	10		ug/L	189519	1	04/12/2014 02:56	GK
Chloroform	BRL	5.0		ug/L	189519	1	04/12/2014 02:56	GK
Chloromethane	BRL	10		ug/L	189519	1	04/12/2014 02:56	GK
cis-1,2-Dichloroethene	72	5.0		ug/L	189519	1	04/12/2014 02:56	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	189519	1	04/12/2014 02:56	GK
Cyclohexane	BRL	5.0		ug/L	189519	1	04/12/2014 02:56	GK
Dibromochloromethane	BRL	5.0		ug/L	189519	1	04/12/2014 02:56	GK
Dichlorodifluoromethane	BRL	10		ug/L	189519	1	04/12/2014 02:56	GK
Ethylbenzene	BRL	5.0		ug/L	189519	1	04/12/2014 02:56	GK
Freon-113	BRL	10		ug/L	189519	1	04/12/2014 02:56	GK
Isopropylbenzene	BRL	5.0		ug/L	189519	1	04/12/2014 02:56	GK
m,p-Xylene	BRL	5.0		ug/L	189519	1	04/12/2014 02:56	GK
Methyl acetate	BRL	5.0		ug/L	189519	1	04/12/2014 02:56	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	189519	1	04/12/2014 02:56	GK
Methylcyclohexane	BRL	5.0		ug/L	189519	1	04/12/2014 02:56	GK
Methylene chloride	BRL	5.0		ug/L	189519	1	04/12/2014 02:56	GK
o-Xylene	BRL	5.0		ug/L	189519	1	04/12/2014 02:56	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: AS-115 (040714)
Project Name: Lafarge E.P.	Collection Date: 4/7/2014 5:30:00 PM
Lab ID: 1404848-002	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5030B)			
Styrene	BRL	5.0		ug/L	189519	1	04/12/2014 02:56	GK
Tetrachloroethene	BRL	5.0		ug/L	189519	1	04/12/2014 02:56	GK
Toluene	BRL	5.0		ug/L	189519	1	04/12/2014 02:56	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	189519	1	04/12/2014 02:56	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	189519	1	04/12/2014 02:56	GK
Trichloroethene	BRL	5.0		ug/L	189519	1	04/12/2014 02:56	GK
Trichlorofluoromethane	BRL	5.0		ug/L	189519	1	04/12/2014 02:56	GK
Vinyl chloride	BRL	2.0		ug/L	189519	1	04/12/2014 02:56	GK
Surr: 4-Bromofluorobenzene	88.4	66.2-120		%REC	189519	1	04/12/2014 02:56	GK
Surr: Dibromofluoromethane	100	79.5-121		%REC	189519	1	04/12/2014 02:56	GK
Surr: Toluene-d8	97.3	77-117		%REC	189519	1	04/12/2014 02:56	GK

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client ARCADIS

Work Order Number 1404848

Checklist completed by [Signature] Date 4/8/14

Carrier name: FedEx UPS Courier Client US Mail Other

Shipping container/cooler in good condition? Yes No Not Present

Custody seals intact on shipping container/cooler? Yes No Not Present

Custody seals intact on sample bottles? Yes No Not Present

Container/Temp Blank temperature in compliance? (4°C±2)* Yes No

Cooler #1 4-2 Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present? Yes No

Chain of custody signed when relinquished and received? Yes No

Chain of custody agrees with sample labels? Yes No

Samples in proper container/bottle? Yes No

Sample containers intact? Yes No

Sufficient sample volume for indicated test? Yes No

All samples received within holding time? Yes No

Was TAT marked on the COC? Yes No

Proceed with Standard TAT as per project history? Yes No Not Applicable

Water - VOA vials have zero headspace? No VOA vials submitted Yes No

Water - pH acceptable upon receipt? Yes No Not Applicable

Adjusted? _____ Checked by _____

Sample Condition: Good Other(Explain) _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes No

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

Client: Arcadis
 Project Name: Lafarge E.P.
 Workorder: 1404848

ANALYTICAL QC SUMMARY REPORT

BatchID: 189519

Sample ID: MB-189519	Client ID:	Units: ug/L	Prep Date: 04/09/2014	Run No: 265186							
Sample Type: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 189519	Analysis Date: 04/09/2014	Seq No: 5585466							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
2-Butanone	BRL	50									
2-Hexanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	50									
Benzene	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon disulfide	BRL	5.0									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									
Chloroform	BRL	5.0									
Chloromethane	BRL	10									

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
Project Name: Lafarge E.P.
Workorder: 1404848

ANALYTICAL QC SUMMARY REPORT

BatchID: 189519

Sample ID: MB-189519	Client ID:	Units: ug/L	Prep Date: 04/09/2014	Run No: 265186							
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 189519	Analysis Date: 04/09/2014	Seq No: 5585466							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	5.0									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	2.0									
Surr: 4-Bromofluorobenzene	46.37	0	50.00		92.7	66.2	120				
Surr: Dibromofluoromethane	52.48	0	50.00		105	79.5	121				
Surr: Toluene-d8	45.92	0	50.00		91.8	77	117				

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
 Project Name: Lafarge E.P.
 Workorder: 1404848

ANALYTICAL QC SUMMARY REPORT

BatchID: 189519

Sample ID: LCS-189519	Client ID:	Units: ug/L	Prep Date: 04/09/2014	Run No: 265186							
SampleType: LCS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 189519	Analysis Date: 04/09/2014	Seq No: 5585387							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	37.15	5.0	50.00		74.3	63.1	140				
Benzene	46.57	5.0	50.00		93.1	74.2	129				
Chlorobenzene	49.34	5.0	50.00		98.7	70	129				
Toluene	49.46	5.0	50.00	0.4300	98.1	74.2	129				
Trichloroethene	55.26	5.0	50.00		111	71.2	135				
Surr: 4-Bromofluorobenzene	47.45	0	50.00		94.9	66.2	120				
Surr: Dibromofluoromethane	53.15	0	50.00		106	79.5	121				
Surr: Toluene-d8	46.55	0	50.00		93.1	77	117				

Sample ID: 1404370-002AMS	Client ID:	Units: ug/L	Prep Date: 04/09/2014	Run No: 265186							
SampleType: MS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 189519	Analysis Date: 04/09/2014	Seq No: 5585962							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	51.05	5.0	50.00		102	60.2	159				
Benzene	50.65	5.0	50.00		101	70.2	138				
Chlorobenzene	52.11	5.0	50.00		104	70.1	133				
Toluene	53.69	5.0	50.00		107	70	139				
Trichloroethene	59.75	5.0	50.00		120	70.1	144				
Surr: 4-Bromofluorobenzene	46.03	0	50.00		92.1	66.2	120				
Surr: Dibromofluoromethane	53.45	0	50.00		107	79.5	121				
Surr: Toluene-d8	46.83	0	50.00		93.7	77	117				

Sample ID: 1404370-002AMSD	Client ID:	Units: ug/L	Prep Date: 04/09/2014	Run No: 265186							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 189519	Analysis Date: 04/09/2014	Seq No: 5585964							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	45.83	5.0	50.00		91.7	60.2	159	51.05	10.8	19.2	
Benzene	49.37	5.0	50.00		98.7	70.2	138	50.65	2.56	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
 Project Name: Lafarge E.P.
 Workorder: 1404848

ANALYTICAL QC SUMMARY REPORT

BatchID: 189519

Sample ID: 1404370-002AMSD	Client ID:	Units: ug/L	Prep Date: 04/09/2014	Run No: 265186							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 189519	Analysis Date: 04/09/2014	Seq No: 5585964							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chlorobenzene	50.93	5.0	50.00		102	70.1	133	52.11	2.29	20	
Toluene	53.04	5.0	50.00		106	70	139	53.69	1.22	20	
Trichloroethene	59.53	5.0	50.00		119	70.1	144	59.75	0.369	20	
Surr: 4-Bromofluorobenzene	46.44	0	50.00		92.9	66.2	120	46.03	0	0	
Surr: Dibromofluoromethane	52.49	0	50.00		105	79.5	121	53.45	0	0	
Surr: Toluene-d8	46.67	0	50.00		93.3	77	117	46.83	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		



April 28, 2014

Peter Cornais
Arcadis
2081 Vista Parkway, Suite 200
West Palm Beach FL 33411

TEL: (850) 445-0829
FAX:

RE: Lafarge Rd Marking

Dear Peter Cornais:

Order No: 1404J32

Analytical Environmental Services, Inc. received 7 samples on 4/18/2014 9:40:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/13-06/30/14.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/15.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Chantelle Kanhai
Project Manager

#	SAMPLE ID	SAMPLED		Grab	Composite	Matrix (See codes)	ANALYSIS REQUESTED		REMARKS	No # of Containers
		DATE	TIME				PRESERVATION (See codes)	Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.		
1	MW-5B (041614)	9/16/14	1050	X		GL				2
2	MW-35 (041614)	9/16/14	1210	X		GL				2
3	MW-34 (041614)	9/16/14	1355	X		GL				2
4	MW-32 (041614)	9/16/14	1443	X		GL				2
5	MW-32A (041614)	9/16/14	1515	X		GL				2
6	MW-36 (041614)	9/17/14	0925	X		GL				2
7	Trip Blank	9/17/14		X		GL			Hold Sample	2
8										
9										
10										
11										
12										
13										
14										

COMPANY: ARCADIS
 ADDRESS: 1000 Cobb Place Blvd Bldg 500-A
 Marietta, GA 30149
 SIGNATURE: [Signature]
 DATE/TIME RECEIVED BY: [Signature] 9/18/14 9:40

PROJECT INFORMATION:
 PROJECT NAME: Ledge Pond Mining
 PROJECT #: HZ17-51a
 SITE ADDRESS: 4140 Martin St
 East Point, GA
 SEND REPORT TO: Peter Conroy
 INVOICE TO: (IF DIFFERENT FROM ABOVE)
 QUOTE #: _____
 PO#: _____

SHIPMENT METHOD:
 OUT: _____ VIA: _____
 IN: [Signature] CLIENT FedEx UPS MAIL COURIER
 GREYHOUND OTHER: _____

SPECIAL INSTRUCTIONS/COMMENTS:
 Hold Sample until Further
 Direction from Peter Conroy

RECEIPT:
 Total # of Containers: _____
 Turnaround Time Request:
 Standard 5 Business Days
 2 Business Day Rush
 Next Business Day Rush
 Same Day Rush (auth req.)
 Other: _____

STATE PROGRAM (if any): _____
 E-mail? Y/N: _____ Fax? Y/N: _____
 DATA PACKAGE: I II III IV

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES.
 SAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMPLETION UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water
 PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client

Client: Arcadis
Project: Lafarge Rd Marking
Lab ID: 1404J32

Case Narrative

Volatile Organic Compounds Analysis by Method 8260B:

Due to sample matrix, samples 1404J32-002, -004 and -006 required dilution during preparation and/or analysis resulting in elevated reporting limits.

Trichloroethene value for the QC sample 1404J32-004AMS/MSD is "E" qualified indicating estimated value over linear calibration range due to the level of target analyte present in the unspiked sample.

Analytical Environmental Services, Inc

Date: 28-Apr-14

Client: Arcadis	Client Sample ID: MW-5R (041614)
Project Name: Lafarge Rd Marking	Collection Date: 4/16/2014 10:50:00 AM
Lab ID: 1404J32-001	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	190146	1	04/24/2014 15:01	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	190146	1	04/24/2014 15:01	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	190146	1	04/24/2014 15:01	GK
1,1-Dichloroethane	BRL	5.0		ug/L	190146	1	04/24/2014 15:01	GK
1,1-Dichloroethene	BRL	5.0		ug/L	190146	1	04/24/2014 15:01	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	190146	1	04/24/2014 15:01	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	190146	1	04/24/2014 15:01	GK
1,2-Dibromoethane	BRL	5.0		ug/L	190146	1	04/24/2014 15:01	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	190146	1	04/24/2014 15:01	GK
1,2-Dichloroethane	BRL	5.0		ug/L	190146	1	04/24/2014 15:01	GK
1,2-Dichloropropane	BRL	5.0		ug/L	190146	1	04/24/2014 15:01	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	190146	1	04/24/2014 15:01	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	190146	1	04/24/2014 15:01	GK
2-Butanone	BRL	50		ug/L	190146	1	04/24/2014 15:01	GK
2-Hexanone	BRL	10		ug/L	190146	1	04/24/2014 15:01	GK
4-Methyl-2-pentanone	BRL	10		ug/L	190146	1	04/24/2014 15:01	GK
Acetone	BRL	50		ug/L	190146	1	04/24/2014 15:01	GK
Benzene	BRL	5.0		ug/L	190146	1	04/24/2014 15:01	GK
Bromodichloromethane	BRL	5.0		ug/L	190146	1	04/24/2014 15:01	GK
Bromoform	BRL	5.0		ug/L	190146	1	04/24/2014 15:01	GK
Bromomethane	BRL	5.0		ug/L	190146	1	04/24/2014 15:01	GK
Carbon disulfide	BRL	5.0		ug/L	190146	1	04/24/2014 15:01	GK
Carbon tetrachloride	BRL	5.0		ug/L	190146	1	04/24/2014 15:01	GK
Chlorobenzene	BRL	5.0		ug/L	190146	1	04/24/2014 15:01	GK
Chloroethane	BRL	10		ug/L	190146	1	04/24/2014 15:01	GK
Chloroform	BRL	5.0		ug/L	190146	1	04/24/2014 15:01	GK
Chloromethane	BRL	10		ug/L	190146	1	04/24/2014 15:01	GK
cis-1,2-Dichloroethene	310	250		ug/L	190146	50	04/24/2014 03:23	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	190146	1	04/24/2014 15:01	GK
Cyclohexane	6.9	5.0		ug/L	190146	1	04/24/2014 15:01	GK
Dibromochloromethane	BRL	5.0		ug/L	190146	1	04/24/2014 15:01	GK
Dichlorodifluoromethane	BRL	10		ug/L	190146	1	04/24/2014 15:01	GK
Ethylbenzene	BRL	5.0		ug/L	190146	1	04/24/2014 15:01	GK
Freon-113	BRL	10		ug/L	190146	1	04/24/2014 15:01	GK
Isopropylbenzene	BRL	5.0		ug/L	190146	1	04/24/2014 15:01	GK
m,p-Xylene	27	5.0		ug/L	190146	1	04/24/2014 15:01	GK
Methyl acetate	BRL	5.0		ug/L	190146	1	04/24/2014 15:01	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	190146	1	04/24/2014 15:01	GK
Methylcyclohexane	24	5.0		ug/L	190146	1	04/24/2014 15:01	GK
Methylene chloride	BRL	5.0		ug/L	190146	1	04/24/2014 15:01	GK
o-Xylene	18	5.0		ug/L	190146	1	04/24/2014 15:01	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: MW-5R (041614)
Project Name: Lafarge Rd Marking	Collection Date: 4/16/2014 10:50:00 AM
Lab ID: 1404J32-001	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5030B)			
Styrene	BRL	5.0		ug/L	190146	1	04/24/2014 15:01	GK
Tetrachloroethene	BRL	5.0		ug/L	190146	1	04/24/2014 15:01	GK
Toluene	BRL	5.0		ug/L	190146	1	04/24/2014 15:01	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	190146	1	04/24/2014 15:01	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	190146	1	04/24/2014 15:01	GK
Trichloroethene	110	5.0		ug/L	190146	1	04/24/2014 15:01	GK
Trichlorofluoromethane	BRL	5.0		ug/L	190146	1	04/24/2014 15:01	GK
Vinyl chloride	6.5	2.0		ug/L	190146	1	04/24/2014 15:01	GK
Surr: 4-Bromofluorobenzene	94.6	66.2-120		%REC	190146	50	04/24/2014 03:23	GK
Surr: 4-Bromofluorobenzene	93.6	66.2-120		%REC	190146	1	04/24/2014 15:01	GK
Surr: Dibromofluoromethane	102	79.5-121		%REC	190146	50	04/24/2014 03:23	GK
Surr: Dibromofluoromethane	97.9	79.5-121		%REC	190146	1	04/24/2014 15:01	GK
Surr: Toluene-d8	98.3	77-117		%REC	190146	50	04/24/2014 03:23	GK
Surr: Toluene-d8	97.6	77-117		%REC	190146	1	04/24/2014 15:01	GK

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 28-Apr-14

Client: Arcadis	Client Sample ID: MW-35 (041614)
Project Name: Lafarge Rd Marking	Collection Date: 4/16/2014 12:10:00 PM
Lab ID: 1404J32-002	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	250		ug/L	190146	50	04/24/2014 03:51	GK
1,1,2,2-Tetrachloroethane	BRL	250		ug/L	190146	50	04/24/2014 03:51	GK
1,1,2-Trichloroethane	BRL	250		ug/L	190146	50	04/24/2014 03:51	GK
1,1-Dichloroethane	BRL	250		ug/L	190146	50	04/24/2014 03:51	GK
1,1-Dichloroethene	BRL	250		ug/L	190146	50	04/24/2014 03:51	GK
1,2,4-Trichlorobenzene	BRL	250		ug/L	190146	50	04/24/2014 03:51	GK
1,2-Dibromo-3-chloropropane	BRL	250		ug/L	190146	50	04/24/2014 03:51	GK
1,2-Dibromoethane	BRL	250		ug/L	190146	50	04/24/2014 03:51	GK
1,2-Dichlorobenzene	BRL	250		ug/L	190146	50	04/24/2014 03:51	GK
1,2-Dichloroethane	BRL	250		ug/L	190146	50	04/24/2014 03:51	GK
1,2-Dichloropropane	BRL	250		ug/L	190146	50	04/24/2014 03:51	GK
1,3-Dichlorobenzene	BRL	250		ug/L	190146	50	04/24/2014 03:51	GK
1,4-Dichlorobenzene	BRL	250		ug/L	190146	50	04/24/2014 03:51	GK
2-Butanone	BRL	2500		ug/L	190146	50	04/24/2014 03:51	GK
2-Hexanone	BRL	500		ug/L	190146	50	04/24/2014 03:51	GK
4-Methyl-2-pentanone	BRL	500		ug/L	190146	50	04/24/2014 03:51	GK
Acetone	BRL	2500		ug/L	190146	50	04/24/2014 03:51	GK
Benzene	BRL	250		ug/L	190146	50	04/24/2014 03:51	GK
Bromodichloromethane	BRL	250		ug/L	190146	50	04/24/2014 03:51	GK
Bromoform	BRL	250		ug/L	190146	50	04/24/2014 03:51	GK
Bromomethane	BRL	250		ug/L	190146	50	04/24/2014 03:51	GK
Carbon disulfide	BRL	250		ug/L	190146	50	04/24/2014 03:51	GK
Carbon tetrachloride	BRL	250		ug/L	190146	50	04/24/2014 03:51	GK
Chlorobenzene	BRL	250		ug/L	190146	50	04/24/2014 03:51	GK
Chloroethane	BRL	500		ug/L	190146	50	04/24/2014 03:51	GK
Chloroform	BRL	250		ug/L	190146	50	04/24/2014 03:51	GK
Chloromethane	BRL	500		ug/L	190146	50	04/24/2014 03:51	GK
cis-1,2-Dichloroethene	BRL	250		ug/L	190146	50	04/24/2014 03:51	GK
cis-1,3-Dichloropropene	BRL	250		ug/L	190146	50	04/24/2014 03:51	GK
Cyclohexane	BRL	250		ug/L	190146	50	04/24/2014 03:51	GK
Dibromochloromethane	BRL	250		ug/L	190146	50	04/24/2014 03:51	GK
Dichlorodifluoromethane	BRL	500		ug/L	190146	50	04/24/2014 03:51	GK
Ethylbenzene	BRL	250		ug/L	190146	50	04/24/2014 03:51	GK
Freon-113	BRL	500		ug/L	190146	50	04/24/2014 03:51	GK
Isopropylbenzene	BRL	250		ug/L	190146	50	04/24/2014 03:51	GK
m,p-Xylene	BRL	250		ug/L	190146	50	04/24/2014 03:51	GK
Methyl acetate	BRL	250		ug/L	190146	50	04/24/2014 03:51	GK
Methyl tert-butyl ether	BRL	250		ug/L	190146	50	04/24/2014 03:51	GK
Methylcyclohexane	BRL	250		ug/L	190146	50	04/24/2014 03:51	GK
Methylene chloride	BRL	250		ug/L	190146	50	04/24/2014 03:51	GK
o-Xylene	BRL	250		ug/L	190146	50	04/24/2014 03:51	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: MW-35 (041614)
Project Name: Lafarge Rd Marking	Collection Date: 4/16/2014 12:10:00 PM
Lab ID: 1404J32-002	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5030B)			
Styrene	BRL	250		ug/L	190146	50	04/24/2014 03:51	GK
Tetrachloroethene	BRL	250		ug/L	190146	50	04/24/2014 03:51	GK
Toluene	340	250		ug/L	190146	50	04/24/2014 03:51	GK
trans-1,2-Dichloroethene	BRL	250		ug/L	190146	50	04/24/2014 03:51	GK
trans-1,3-Dichloropropene	BRL	250		ug/L	190146	50	04/24/2014 03:51	GK
Trichloroethene	14000	500		ug/L	190146	100	04/24/2014 14:06	GK
Trichlorofluoromethane	BRL	250		ug/L	190146	50	04/24/2014 03:51	GK
Vinyl chloride	BRL	100		ug/L	190146	50	04/24/2014 03:51	GK
Surr: 4-Bromofluorobenzene	95.9	66.2-120		%REC	190146	50	04/24/2014 03:51	GK
Surr: 4-Bromofluorobenzene	90.9	66.2-120		%REC	190146	100	04/24/2014 14:06	GK
Surr: Dibromofluoromethane	96	79.5-121		%REC	190146	50	04/24/2014 03:51	GK
Surr: Dibromofluoromethane	102	79.5-121		%REC	190146	100	04/24/2014 14:06	GK
Surr: Toluene-d8	97.8	77-117		%REC	190146	50	04/24/2014 03:51	GK
Surr: Toluene-d8	97.8	77-117		%REC	190146	100	04/24/2014 14:06	GK

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: MW-34 (041614)
Project Name: Lafarge Rd Marking	Collection Date: 4/16/2014 1:55:00 PM
Lab ID: 1404J32-003	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	190146	1	04/24/2014 15:28	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	190146	1	04/24/2014 15:28	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	190146	1	04/24/2014 15:28	GK
1,1-Dichloroethane	BRL	5.0		ug/L	190146	1	04/24/2014 15:28	GK
1,1-Dichloroethene	BRL	5.0		ug/L	190146	1	04/24/2014 15:28	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	190146	1	04/24/2014 15:28	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	190146	1	04/24/2014 15:28	GK
1,2-Dibromoethane	BRL	5.0		ug/L	190146	1	04/24/2014 15:28	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	190146	1	04/24/2014 15:28	GK
1,2-Dichloroethane	BRL	5.0		ug/L	190146	1	04/24/2014 15:28	GK
1,2-Dichloropropane	BRL	5.0		ug/L	190146	1	04/24/2014 15:28	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	190146	1	04/24/2014 15:28	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	190146	1	04/24/2014 15:28	GK
2-Butanone	BRL	50		ug/L	190146	1	04/24/2014 15:28	GK
2-Hexanone	BRL	10		ug/L	190146	1	04/24/2014 15:28	GK
4-Methyl-2-pentanone	BRL	10		ug/L	190146	1	04/24/2014 15:28	GK
Acetone	BRL	50		ug/L	190146	1	04/24/2014 15:28	GK
Benzene	BRL	5.0		ug/L	190146	1	04/24/2014 15:28	GK
Bromodichloromethane	BRL	5.0		ug/L	190146	1	04/24/2014 15:28	GK
Bromoform	BRL	5.0		ug/L	190146	1	04/24/2014 15:28	GK
Bromomethane	BRL	5.0		ug/L	190146	1	04/24/2014 15:28	GK
Carbon disulfide	BRL	5.0		ug/L	190146	1	04/24/2014 15:28	GK
Carbon tetrachloride	BRL	5.0		ug/L	190146	1	04/24/2014 15:28	GK
Chlorobenzene	BRL	5.0		ug/L	190146	1	04/24/2014 15:28	GK
Chloroethane	BRL	10		ug/L	190146	1	04/24/2014 15:28	GK
Chloroform	BRL	5.0		ug/L	190146	1	04/24/2014 15:28	GK
Chloromethane	BRL	10		ug/L	190146	1	04/24/2014 15:28	GK
cis-1,2-Dichloroethene	7.0	5.0		ug/L	190146	1	04/24/2014 15:28	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	190146	1	04/24/2014 15:28	GK
Cyclohexane	BRL	5.0		ug/L	190146	1	04/24/2014 15:28	GK
Dibromochloromethane	BRL	5.0		ug/L	190146	1	04/24/2014 15:28	GK
Dichlorodifluoromethane	BRL	10		ug/L	190146	1	04/24/2014 15:28	GK
Ethylbenzene	BRL	5.0		ug/L	190146	1	04/24/2014 15:28	GK
Freon-113	BRL	10		ug/L	190146	1	04/24/2014 15:28	GK
Isopropylbenzene	BRL	5.0		ug/L	190146	1	04/24/2014 15:28	GK
m,p-Xylene	BRL	5.0		ug/L	190146	1	04/24/2014 15:28	GK
Methyl acetate	BRL	5.0		ug/L	190146	1	04/24/2014 15:28	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	190146	1	04/24/2014 15:28	GK
Methylcyclohexane	BRL	5.0		ug/L	190146	1	04/24/2014 15:28	GK
Methylene chloride	BRL	5.0		ug/L	190146	1	04/24/2014 15:28	GK
o-Xylene	BRL	5.0		ug/L	190146	1	04/24/2014 15:28	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: MW-34 (041614)
Project Name: Lafarge Rd Marking	Collection Date: 4/16/2014 1:55:00 PM
Lab ID: 1404J32-003	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5030B)			
Styrene	BRL	5.0		ug/L	190146	1	04/24/2014 15:28	GK
Tetrachloroethene	BRL	5.0		ug/L	190146	1	04/24/2014 15:28	GK
Toluene	21	5.0		ug/L	190146	1	04/24/2014 15:28	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	190146	1	04/24/2014 15:28	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	190146	1	04/24/2014 15:28	GK
Trichloroethene	4900	250		ug/L	190146	50	04/24/2014 04:18	GK
Trichlorofluoromethane	BRL	5.0		ug/L	190146	1	04/24/2014 15:28	GK
Vinyl chloride	BRL	2.0		ug/L	190146	1	04/24/2014 15:28	GK
Surr: 4-Bromofluorobenzene	93.2	66.2-120		%REC	190146	50	04/24/2014 04:18	GK
Surr: 4-Bromofluorobenzene	90.6	66.2-120		%REC	190146	1	04/24/2014 15:28	GK
Surr: Dibromofluoromethane	102	79.5-121		%REC	190146	50	04/24/2014 04:18	GK
Surr: Dibromofluoromethane	102	79.5-121		%REC	190146	1	04/24/2014 15:28	GK
Surr: Toluene-d8	97.9	77-117		%REC	190146	50	04/24/2014 04:18	GK
Surr: Toluene-d8	98.7	77-117		%REC	190146	1	04/24/2014 15:28	GK

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: MW-32 (041614)
Project Name: Lafarge Rd Marking	Collection Date: 4/16/2014 2:43:00 PM
Lab ID: 1404J32-004	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	500		ug/L	190146	100	04/24/2014 02:02	GK
1,1,2,2-Tetrachloroethane	BRL	500		ug/L	190146	100	04/24/2014 02:02	GK
1,1,2-Trichloroethane	BRL	500		ug/L	190146	100	04/24/2014 02:02	GK
1,1-Dichloroethane	BRL	500		ug/L	190146	100	04/24/2014 02:02	GK
1,1-Dichloroethene	BRL	500		ug/L	190146	100	04/24/2014 02:02	GK
1,2,4-Trichlorobenzene	BRL	500		ug/L	190146	100	04/24/2014 02:02	GK
1,2-Dibromo-3-chloropropane	BRL	500		ug/L	190146	100	04/24/2014 02:02	GK
1,2-Dibromoethane	BRL	500		ug/L	190146	100	04/24/2014 02:02	GK
1,2-Dichlorobenzene	BRL	500		ug/L	190146	100	04/24/2014 02:02	GK
1,2-Dichloroethane	BRL	500		ug/L	190146	100	04/24/2014 02:02	GK
1,2-Dichloropropane	BRL	500		ug/L	190146	100	04/24/2014 02:02	GK
1,3-Dichlorobenzene	BRL	500		ug/L	190146	100	04/24/2014 02:02	GK
1,4-Dichlorobenzene	BRL	500		ug/L	190146	100	04/24/2014 02:02	GK
2-Butanone	BRL	5000		ug/L	190146	100	04/24/2014 02:02	GK
2-Hexanone	BRL	1000		ug/L	190146	100	04/24/2014 02:02	GK
4-Methyl-2-pentanone	BRL	1000		ug/L	190146	100	04/24/2014 02:02	GK
Acetone	BRL	5000		ug/L	190146	100	04/24/2014 02:02	GK
Benzene	BRL	500		ug/L	190146	100	04/24/2014 02:02	GK
Bromodichloromethane	BRL	500		ug/L	190146	100	04/24/2014 02:02	GK
Bromoform	BRL	500		ug/L	190146	100	04/24/2014 02:02	GK
Bromomethane	BRL	500		ug/L	190146	100	04/24/2014 02:02	GK
Carbon disulfide	BRL	500		ug/L	190146	100	04/24/2014 02:02	GK
Carbon tetrachloride	BRL	500		ug/L	190146	100	04/24/2014 02:02	GK
Chlorobenzene	BRL	500		ug/L	190146	100	04/24/2014 02:02	GK
Chloroethane	BRL	1000		ug/L	190146	100	04/24/2014 02:02	GK
Chloroform	BRL	500		ug/L	190146	100	04/24/2014 02:02	GK
Chloromethane	BRL	1000		ug/L	190146	100	04/24/2014 02:02	GK
cis-1,2-Dichloroethene	BRL	500		ug/L	190146	100	04/24/2014 02:02	GK
cis-1,3-Dichloropropene	BRL	500		ug/L	190146	100	04/24/2014 02:02	GK
Cyclohexane	BRL	500		ug/L	190146	100	04/24/2014 02:02	GK
Dibromochloromethane	BRL	500		ug/L	190146	100	04/24/2014 02:02	GK
Dichlorodifluoromethane	BRL	1000		ug/L	190146	100	04/24/2014 02:02	GK
Ethylbenzene	BRL	500		ug/L	190146	100	04/24/2014 02:02	GK
Freon-113	BRL	1000		ug/L	190146	100	04/24/2014 02:02	GK
Isopropylbenzene	BRL	500		ug/L	190146	100	04/24/2014 02:02	GK
m,p-Xylene	BRL	500		ug/L	190146	100	04/24/2014 02:02	GK
Methyl acetate	BRL	500		ug/L	190146	100	04/24/2014 02:02	GK
Methyl tert-butyl ether	BRL	500		ug/L	190146	100	04/24/2014 02:02	GK
Methylcyclohexane	BRL	500		ug/L	190146	100	04/24/2014 02:02	GK
Methylene chloride	BRL	500		ug/L	190146	100	04/24/2014 02:02	GK
o-Xylene	BRL	500		ug/L	190146	100	04/24/2014 02:02	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: MW-32 (041614)
Project Name: Lafarge Rd Marking	Collection Date: 4/16/2014 2:43:00 PM
Lab ID: 1404J32-004	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5030B)			
Styrene	BRL	500		ug/L	190146	100	04/24/2014 02:02	GK
Tetrachloroethene	BRL	500		ug/L	190146	100	04/24/2014 02:02	GK
Toluene	1200	500		ug/L	190146	100	04/24/2014 02:02	GK
trans-1,2-Dichloroethene	BRL	500		ug/L	190146	100	04/24/2014 02:02	GK
trans-1,3-Dichloropropene	BRL	500		ug/L	190146	100	04/24/2014 02:02	GK
Trichloroethene	67000	5000		ug/L	190146	1000	04/24/2014 13:39	GK
Trichlorofluoromethane	BRL	500		ug/L	190146	100	04/24/2014 02:02	GK
Vinyl chloride	BRL	200		ug/L	190146	100	04/24/2014 02:02	GK
Surr: 4-Bromofluorobenzene	92.6	66.2-120		%REC	190146	1000	04/24/2014 13:39	GK
Surr: 4-Bromofluorobenzene	97.5	66.2-120		%REC	190146	100	04/24/2014 02:02	GK
Surr: Dibromofluoromethane	99.6	79.5-121		%REC	190146	100	04/24/2014 02:02	GK
Surr: Dibromofluoromethane	102	79.5-121		%REC	190146	1000	04/24/2014 13:39	GK
Surr: Toluene-d8	97	77-117		%REC	190146	1000	04/24/2014 13:39	GK
Surr: Toluene-d8	97.5	77-117		%REC	190146	100	04/24/2014 02:02	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 28-Apr-14

Client: Arcadis	Client Sample ID: MW-36 (041714)
Project Name: Lafarge Rd Marking	Collection Date: 4/17/2014 9:25:00 AM
Lab ID: 1404J32-006	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	250		ug/L	190146	50	04/24/2014 05:12	GK
1,1,2,2-Tetrachloroethane	BRL	250		ug/L	190146	50	04/24/2014 05:12	GK
1,1,2-Trichloroethane	BRL	250		ug/L	190146	50	04/24/2014 05:12	GK
1,1-Dichloroethane	BRL	250		ug/L	190146	50	04/24/2014 05:12	GK
1,1-Dichloroethene	BRL	250		ug/L	190146	50	04/24/2014 05:12	GK
1,2,4-Trichlorobenzene	BRL	250		ug/L	190146	50	04/24/2014 05:12	GK
1,2-Dibromo-3-chloropropane	BRL	250		ug/L	190146	50	04/24/2014 05:12	GK
1,2-Dibromoethane	BRL	250		ug/L	190146	50	04/24/2014 05:12	GK
1,2-Dichlorobenzene	BRL	250		ug/L	190146	50	04/24/2014 05:12	GK
1,2-Dichloroethane	BRL	250		ug/L	190146	50	04/24/2014 05:12	GK
1,2-Dichloropropane	BRL	250		ug/L	190146	50	04/24/2014 05:12	GK
1,3-Dichlorobenzene	BRL	250		ug/L	190146	50	04/24/2014 05:12	GK
1,4-Dichlorobenzene	BRL	250		ug/L	190146	50	04/24/2014 05:12	GK
2-Butanone	BRL	2500		ug/L	190146	50	04/24/2014 05:12	GK
2-Hexanone	BRL	500		ug/L	190146	50	04/24/2014 05:12	GK
4-Methyl-2-pentanone	BRL	500		ug/L	190146	50	04/24/2014 05:12	GK
Acetone	BRL	2500		ug/L	190146	50	04/24/2014 05:12	GK
Benzene	BRL	250		ug/L	190146	50	04/24/2014 05:12	GK
Bromodichloromethane	BRL	250		ug/L	190146	50	04/24/2014 05:12	GK
Bromoform	BRL	250		ug/L	190146	50	04/24/2014 05:12	GK
Bromomethane	BRL	250		ug/L	190146	50	04/24/2014 05:12	GK
Carbon disulfide	BRL	250		ug/L	190146	50	04/24/2014 05:12	GK
Carbon tetrachloride	BRL	250		ug/L	190146	50	04/24/2014 05:12	GK
Chlorobenzene	BRL	250		ug/L	190146	50	04/24/2014 05:12	GK
Chloroethane	BRL	500		ug/L	190146	50	04/24/2014 05:12	GK
Chloroform	BRL	250		ug/L	190146	50	04/24/2014 05:12	GK
Chloromethane	BRL	500		ug/L	190146	50	04/24/2014 05:12	GK
cis-1,2-Dichloroethene	1600	250		ug/L	190146	50	04/24/2014 05:12	GK
cis-1,3-Dichloropropene	BRL	250		ug/L	190146	50	04/24/2014 05:12	GK
Cyclohexane	BRL	250		ug/L	190146	50	04/24/2014 05:12	GK
Dibromochloromethane	BRL	250		ug/L	190146	50	04/24/2014 05:12	GK
Dichlorodifluoromethane	BRL	500		ug/L	190146	50	04/24/2014 05:12	GK
Ethylbenzene	BRL	250		ug/L	190146	50	04/24/2014 05:12	GK
Freon-113	BRL	500		ug/L	190146	50	04/24/2014 05:12	GK
Isopropylbenzene	BRL	250		ug/L	190146	50	04/24/2014 05:12	GK
m,p-Xylene	BRL	250		ug/L	190146	50	04/24/2014 05:12	GK
Methyl acetate	BRL	250		ug/L	190146	50	04/24/2014 05:12	GK
Methyl tert-butyl ether	BRL	250		ug/L	190146	50	04/24/2014 05:12	GK
Methylcyclohexane	BRL	250		ug/L	190146	50	04/24/2014 05:12	GK
Methylene chloride	BRL	250		ug/L	190146	50	04/24/2014 05:12	GK
o-Xylene	BRL	250		ug/L	190146	50	04/24/2014 05:12	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: MW-36 (041714)
Project Name: Lafarge Rd Marking	Collection Date: 4/17/2014 9:25:00 AM
Lab ID: 1404J32-006	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5030B)			
Styrene	BRL	250		ug/L	190146	50	04/24/2014 05:12	GK
Tetrachloroethene	BRL	250		ug/L	190146	50	04/24/2014 05:12	GK
Toluene	490	250		ug/L	190146	50	04/24/2014 05:12	GK
trans-1,2-Dichloroethene	BRL	250		ug/L	190146	50	04/24/2014 05:12	GK
trans-1,3-Dichloropropene	BRL	250		ug/L	190146	50	04/24/2014 05:12	GK
Trichloroethene	16000	500		ug/L	190146	100	04/24/2014 14:33	GK
Trichlorofluoromethane	BRL	250		ug/L	190146	50	04/24/2014 05:12	GK
Vinyl chloride	BRL	100		ug/L	190146	50	04/24/2014 05:12	GK
Surr: 4-Bromofluorobenzene	92.9	66.2-120		%REC	190146	50	04/24/2014 05:12	GK
Surr: 4-Bromofluorobenzene	93.9	66.2-120		%REC	190146	100	04/24/2014 14:33	GK
Surr: Dibromofluoromethane	103	79.5-121		%REC	190146	50	04/24/2014 05:12	GK
Surr: Dibromofluoromethane	97.1	79.5-121		%REC	190146	100	04/24/2014 14:33	GK
Surr: Toluene-d8	96.2	77-117		%REC	190146	50	04/24/2014 05:12	GK
Surr: Toluene-d8	97.9	77-117		%REC	190146	100	04/24/2014 14:33	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: TRIP BLANK
Project Name: Lafarge Rd Marking	Collection Date: 4/17/2014
Lab ID: 1404J32-007	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	190146	1	04/24/2014 05:39	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	190146	1	04/24/2014 05:39	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	190146	1	04/24/2014 05:39	GK
1,1-Dichloroethane	BRL	5.0		ug/L	190146	1	04/24/2014 05:39	GK
1,1-Dichloroethene	BRL	5.0		ug/L	190146	1	04/24/2014 05:39	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	190146	1	04/24/2014 05:39	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	190146	1	04/24/2014 05:39	GK
1,2-Dibromoethane	BRL	5.0		ug/L	190146	1	04/24/2014 05:39	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	190146	1	04/24/2014 05:39	GK
1,2-Dichloroethane	BRL	5.0		ug/L	190146	1	04/24/2014 05:39	GK
1,2-Dichloropropane	BRL	5.0		ug/L	190146	1	04/24/2014 05:39	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	190146	1	04/24/2014 05:39	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	190146	1	04/24/2014 05:39	GK
2-Butanone	BRL	50		ug/L	190146	1	04/24/2014 05:39	GK
2-Hexanone	BRL	10		ug/L	190146	1	04/24/2014 05:39	GK
4-Methyl-2-pentanone	BRL	10		ug/L	190146	1	04/24/2014 05:39	GK
Acetone	BRL	50		ug/L	190146	1	04/24/2014 05:39	GK
Benzene	BRL	5.0		ug/L	190146	1	04/24/2014 05:39	GK
Bromodichloromethane	BRL	5.0		ug/L	190146	1	04/24/2014 05:39	GK
Bromoform	BRL	5.0		ug/L	190146	1	04/24/2014 05:39	GK
Bromomethane	BRL	5.0		ug/L	190146	1	04/24/2014 05:39	GK
Carbon disulfide	BRL	5.0		ug/L	190146	1	04/24/2014 05:39	GK
Carbon tetrachloride	BRL	5.0		ug/L	190146	1	04/24/2014 05:39	GK
Chlorobenzene	BRL	5.0		ug/L	190146	1	04/24/2014 05:39	GK
Chloroethane	BRL	10		ug/L	190146	1	04/24/2014 05:39	GK
Chloroform	BRL	5.0		ug/L	190146	1	04/24/2014 05:39	GK
Chloromethane	BRL	10		ug/L	190146	1	04/24/2014 05:39	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	190146	1	04/24/2014 05:39	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	190146	1	04/24/2014 05:39	GK
Cyclohexane	BRL	5.0		ug/L	190146	1	04/24/2014 05:39	GK
Dibromochloromethane	BRL	5.0		ug/L	190146	1	04/24/2014 05:39	GK
Dichlorodifluoromethane	BRL	10		ug/L	190146	1	04/24/2014 05:39	GK
Ethylbenzene	BRL	5.0		ug/L	190146	1	04/24/2014 05:39	GK
Freon-113	BRL	10		ug/L	190146	1	04/24/2014 05:39	GK
Isopropylbenzene	BRL	5.0		ug/L	190146	1	04/24/2014 05:39	GK
m,p-Xylene	BRL	5.0		ug/L	190146	1	04/24/2014 05:39	GK
Methyl acetate	BRL	5.0		ug/L	190146	1	04/24/2014 05:39	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	190146	1	04/24/2014 05:39	GK
Methylcyclohexane	BRL	5.0		ug/L	190146	1	04/24/2014 05:39	GK
Methylene chloride	BRL	5.0		ug/L	190146	1	04/24/2014 05:39	GK
o-Xylene	BRL	5.0		ug/L	190146	1	04/24/2014 05:39	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: TRIP BLANK
Project Name: Lafarge Rd Marking	Collection Date: 4/17/2014
Lab ID: 1404J32-007	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5030B)			
Styrene	BRL	5.0		ug/L	190146	1	04/24/2014 05:39	GK
Tetrachloroethene	BRL	5.0		ug/L	190146	1	04/24/2014 05:39	GK
Toluene	BRL	5.0		ug/L	190146	1	04/24/2014 05:39	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	190146	1	04/24/2014 05:39	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	190146	1	04/24/2014 05:39	GK
Trichloroethene	BRL	5.0		ug/L	190146	1	04/24/2014 05:39	GK
Trichlorofluoromethane	BRL	5.0		ug/L	190146	1	04/24/2014 05:39	GK
Vinyl chloride	BRL	2.0		ug/L	190146	1	04/24/2014 05:39	GK
Surr: 4-Bromofluorobenzene	89.7	66.2-120		%REC	190146	1	04/24/2014 05:39	GK
Surr: Dibromofluoromethane	104	79.5-121		%REC	190146	1	04/24/2014 05:39	GK
Surr: Toluene-d8	96.6	77-117		%REC	190146	1	04/24/2014 05:39	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client ARCADIS

Work Order Number 1404J32

Checklist completed by [Signature] 4/18/14
Signature Date

Carrier name: FedEx UPS Courier Client US Mail Other

Shipping container/cooler in good condition? Yes No Not Present

Custody seals intact on shipping container/cooler? Yes No Not Present

Custody seals intact on sample bottles? Yes No Not Present

Container/Temp Blank temperature in compliance? (4°C±2)* Yes No

Cooler #1 3.9 Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present? Yes No

Chain of custody signed when relinquished and received? Yes No

Chain of custody agrees with sample labels? Yes No

Samples in proper container/bottle? Yes No

Sample containers intact? Yes No

Sufficient sample volume for indicated test? Yes No

All samples received within holding time? Yes No

Was TAT marked on the COC? Yes No

Proceed with Standard TAT as per project history? Yes No Not Applicable

Water - VOA vials have zero headspace? No VOA vials submitted Yes No

Water - pH acceptable upon receipt? Yes No Not Applicable

Adjusted? _____ Checked by _____

Sample Condition: Good Other(Explain) _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes No

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

Client: Arcadis
 Project Name: Lafarge Rd Marking
 Workorder: 1404J32

ANALYTICAL QC SUMMARY REPORT

BatchID: 190146

Sample ID: MB-190146	Client ID:	Units: ug/L	Prep Date: 04/23/2014	Run No: 266204							
Sample Type: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 190146	Analysis Date: 04/23/2014	Seq No: 5611673							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
2-Butanone	BRL	50									
2-Hexanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	50									
Benzene	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon disulfide	BRL	5.0									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									
Chloroform	BRL	5.0									
Chloromethane	BRL	10									

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
 Project Name: Lafarge Rd Marking
 Workorder: 1404J32

ANALYTICAL QC SUMMARY REPORT

BatchID: 190146

Sample ID: MB-190146	Client ID:	Units: ug/L	Prep Date: 04/23/2014	Run No: 266204							
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 190146	Analysis Date: 04/23/2014	Seq No: 5611673							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	5.0									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	2.0									
Surr: 4-Bromofluorobenzene	48.43	0	50.00		96.9	66.2	120				
Surr: Dibromofluoromethane	51.08	0	50.00		102	79.5	121				
Surr: Toluene-d8	49.04	0	50.00		98.1	77	117				

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
Project Name: Lafarge Rd Marking
Workorder: 1404J32

ANALYTICAL QC SUMMARY REPORT

BatchID: 190146

Sample ID: LCS-190146	Client ID:	Units: ug/L	Prep Date: 04/23/2014	Run No: 266204							
SampleType: LCS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 190146	Analysis Date: 04/23/2014	Seq No: 5611672							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	55.26	5.0	50.00		111	63.1	140				
Benzene	48.83	5.0	50.00		97.7	74.2	129				
Chlorobenzene	48.75	5.0	50.00		97.5	70	129				
Toluene	48.04	5.0	50.00		96.1	74.2	129				
Trichloroethene	48.74	5.0	50.00		97.5	71.2	135				
Surr: 4-Bromofluorobenzene	48.79	0	50.00		97.6	66.2	120				
Surr: Dibromofluoromethane	48.44	0	50.00		96.9	79.5	121				
Surr: Toluene-d8	49.36	0	50.00		98.7	77	117				

Sample ID: 1404J32-004AMS	Client ID: MW-32 (041614)	Units: ug/L	Prep Date: 04/23/2014	Run No: 266204							
SampleType: MS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 190146	Analysis Date: 04/24/2014	Seq No: 5611700							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	6932	500	5000		139	60.2	159				
Benzene	5106	500	5000		102	70.2	138				
Chlorobenzene	5318	500	5000		106	70.1	133				
Toluene	6384	500	5000	1207	104	70	139				
Trichloroethene	72820	500	5000	64550	165	70.1	144				SE
Surr: 4-Bromofluorobenzene	5022	0	5000		100	66.2	120				
Surr: Dibromofluoromethane	5188	0	5000		104	79.5	121				
Surr: Toluene-d8	4989	0	5000		99.8	77	117				

Sample ID: 1404J32-004AMSD	Client ID: MW-32 (041614)	Units: ug/L	Prep Date: 04/23/2014	Run No: 266204							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 190146	Analysis Date: 04/24/2014	Seq No: 5611701							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	7002	500	5000		140	60.2	159	6932	1.00	19.2	
Benzene	5037	500	5000		101	70.2	138	5106	1.36	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
 Project Name: Lafarge Rd Marking
 Workorder: 1404J32

ANALYTICAL QC SUMMARY REPORT

BatchID: 190146

Sample ID: 1404J32-004AMSD	Client ID: MW-32 (041614)	Units: ug/L	Prep Date: 04/23/2014	Run No: 266204							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 190146	Analysis Date: 04/24/2014	Seq No: 5611701							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chlorobenzene	5206	500	5000		104	70.1	133	5318	2.13	20	
Toluene	6261	500	5000	1207	101	70	139	6384	1.95	20	
Trichloroethene	70570	500	5000	64550	120	70.1	144	72820	3.15	20	E
Surr: 4-Bromofluorobenzene	5148	0	5000		103	66.2	120	5022	0	0	
Surr: Dibromofluoromethane	5250	0	5000		105	79.5	121	5188	0	0	
Surr: Toluene-d8	4913	0	5000		98.3	77	117	4989	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		



February 04, 2015

Chris Miller
Arcadis
1000 Cobb Place Blvd., Bldg. 500-A
Kennesaw GA 30144

TEL: (770) 431-8666
FAX: (770) 435-2666

RE: Lafarge EP

Dear Chris Miller:

Order No: 1501B59

Analytical Environmental Services, Inc. received 52 samples on 1/16/2015 11:27:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/14-06/30/15.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/15.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Chantelle Kanhai
Project Manager



ANALYTICAL ENVIRONMENTAL SERVICES, INC

3080 Presidential Drive, Atlanta GA 30340-3704

AES

TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 150165

Date: 1/14/15 Page 4 of 4

COMPANY:		ADDRESS:					ANALYSIS REQUESTED										Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.		No # of Containers		
ARCADIS							VOCs LEAD														
PHONE:		FAX:					PRESERVATION (See codes)										REMARKS				
SAMPLED BY: M. Myer		SIGNATURE: <i>[Signature]</i>					SAMPLED		Grab	Composite	Matrix (See codes)	DATE		TIME		S/P		M/P			
#	SAMPLE ID	DATE	TIME	Grab	Composite	Matrix	S/P	M/P													
1	SB-144 (0-1)	1/14/15	1300	✓		SO	✓	✓													
2	SB-144 (1-3)	1/14/15	1305	✓		SO		X													
3	SB-144 (2-10)	1/14/15	1315	✓		SO		✓													
4	SB-144 (24-25)	1/14/15	16:55	✓		SO	X	X													
5	SB-142 (0-1)	1/14/15	0942	✓		SO	✓	✓													
6	SB-142 (26-29)	1/14/15	1020	✓		SO	✓	✓													
7	SB-142 (1-3)	1/14/15	0945	✓		SO	✓	✓													
8	SB-142 (8-10)	1/14/15	0950	✓		SO		✓													
9																					
10																					
11																					
12																					
13																					
14																					

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME	PROJECT INFORMATION	RECEIPT
1: M. Myer	1-14-15 11:00 AM	<i>[Signature]</i>	1-16-15 10:45	PROJECT NAME:	Total # of Containers
2: <i>[Signature]</i>	1-16-15 11:27			PROJECT #:	<input type="radio"/> Turnaround Time Request <input type="radio"/> Standard 5 Business Days <input type="radio"/> 2 Business Day Rush <input type="radio"/> Next Business Day Rush <input type="radio"/> Same Day Rush (auth req.) <input type="radio"/> Other _____
3:				SITE ADDRESS:	
				SEND REPORT TO:	
SPECIAL INSTRUCTIONS/COMMENTS:		SHIPMENT METHOD		INVOICE TO: (IF DIFFERENT FROM ABOVE)	STATE PROGRAM (if any): _____
		OUT / / VIA: IN / / VIA: CLIENT FedEx UPS MAIL COURIER GREYHOUND OTHER _____		QUOTE #: _____ PO#: _____	E-mail? Y/N; Fax? Y/N

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES.
 SAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMPLETION UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water
PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client

Client: Arcadis
Project: Lafarge EP
Lab ID: 1501B59

Case Narrative**Sample Receiving Nonconformance:**

A Trip Blank was provided but not listed on the Chain of Custody. Trip blank analyzed at no cost to the client.

Sample 1501B59-016 was listed on the Chain of Custody (COC) as "SB-147 ()". The containers were labeled as "SB-147 (22-24)". The collection date and time on the COC matched the date and time on the bottles. The ID was logged in as listed on the COC.

A sample was received labeled as "SB-143 (22-24)" with a collection date and time of 1/14/2014 11:25am, however, this ID was not listed on the COC. Per Chris Miller on 1/27/15 via email, the sample was analyzed for VOCs only.

Volatile Organic Compounds Analysis by Method 8260B:

Percent recovery for the internal standard compounds Chlorobenzene-d5 and 1,4-Dichlorobenzene-d4 on samples 1501B59-009A and -049A was outside control limits biased low due to suspected matrix interference.

Due to sample matrix, sample 1501B59-040 required dilution during preparation and/or analysis resulting in elevated reporting limits.

Cyclohexane, & Methyl acetate values for sample 1501B59-042 are "E" qualified indicating estimated values over linear calibration range. Sample was diluted and reanalyzed using the supplied methanol preserved sample at the minimum dilution allowed resulting in analytes being below reporting limits.

Analytical Environmental Services, Inc

Date: 4-Feb-15

Client: Arcadis	Client Sample ID: SB-143 (1-3)
Project Name: Lafarge EP	Collection Date: 1/14/2015 10:55:00 AM
Lab ID: 1501B59-001	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					(SW3050B)			
Lead	13.7	6.06		mg/Kg-dry	202038	1	01/22/2015 18:11	JL
PERCENT MOISTURE D2216								
Percent Moisture	20.0	0		wt%	R284187	1	01/22/2015 12:00	PF

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 4-Feb-15

Client: Arcadis	Client Sample ID: SB-143 (8-10)
Project Name: Lafarge EP	Collection Date: 1/14/2015 11:02:00 AM
Lab ID: 1501B59-002	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					(SW3050B)			
Lead	9.65	6.19		mg/Kg-dry	202038	1	01/22/2015 18:32	JL
PERCENT MOISTURE D2216								
Percent Moisture	22.3	0		wt%	R284187	1	01/22/2015 12:00	PF

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: SB-143 (6-8)
Project Name: Lafarge EP	Collection Date: 1/14/2015 11:00:00 AM
Lab ID: 1501B59-003	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	5.7		ug/Kg-dry	201935	1	01/21/2015 15:36	MD
1,1,2,2-Tetrachloroethane	BRL	5.7		ug/Kg-dry	201935	1	01/21/2015 15:36	MD
1,1,2-Trichloroethane	BRL	5.7		ug/Kg-dry	201935	1	01/21/2015 15:36	MD
1,1-Dichloroethane	BRL	5.7		ug/Kg-dry	201935	1	01/21/2015 15:36	MD
1,1-Dichloroethene	BRL	5.7		ug/Kg-dry	201935	1	01/21/2015 15:36	MD
1,2,4-Trichlorobenzene	BRL	5.7		ug/Kg-dry	201935	1	01/21/2015 15:36	MD
1,2-Dibromo-3-chloropropane	BRL	5.7		ug/Kg-dry	201935	1	01/21/2015 15:36	MD
1,2-Dibromoethane	BRL	5.7		ug/Kg-dry	201935	1	01/21/2015 15:36	MD
1,2-Dichlorobenzene	BRL	5.7		ug/Kg-dry	201935	1	01/21/2015 15:36	MD
1,2-Dichloroethane	BRL	5.7		ug/Kg-dry	201935	1	01/21/2015 15:36	MD
1,2-Dichloropropane	BRL	5.7		ug/Kg-dry	201935	1	01/21/2015 15:36	MD
1,3-Dichlorobenzene	BRL	5.7		ug/Kg-dry	201935	1	01/21/2015 15:36	MD
1,4-Dichlorobenzene	BRL	5.7		ug/Kg-dry	201935	1	01/21/2015 15:36	MD
2-Butanone	BRL	57		ug/Kg-dry	201935	1	01/21/2015 15:36	MD
2-Hexanone	BRL	11		ug/Kg-dry	201935	1	01/21/2015 15:36	MD
4-Methyl-2-pentanone	BRL	11		ug/Kg-dry	201935	1	01/21/2015 15:36	MD
Acetone	BRL	110		ug/Kg-dry	201935	1	01/21/2015 15:36	MD
Benzene	BRL	5.7		ug/Kg-dry	201935	1	01/21/2015 15:36	MD
Bromodichloromethane	BRL	5.7		ug/Kg-dry	201935	1	01/21/2015 15:36	MD
Bromoform	BRL	5.7		ug/Kg-dry	201935	1	01/21/2015 15:36	MD
Bromomethane	BRL	5.7		ug/Kg-dry	201935	1	01/21/2015 15:36	MD
Carbon disulfide	BRL	11		ug/Kg-dry	201935	1	01/21/2015 15:36	MD
Carbon tetrachloride	BRL	5.7		ug/Kg-dry	201935	1	01/21/2015 15:36	MD
Chlorobenzene	BRL	5.7		ug/Kg-dry	201935	1	01/21/2015 15:36	MD
Chloroethane	BRL	11		ug/Kg-dry	201935	1	01/21/2015 15:36	MD
Chloroform	BRL	5.7		ug/Kg-dry	201935	1	01/21/2015 15:36	MD
Chloromethane	BRL	11		ug/Kg-dry	201935	1	01/21/2015 15:36	MD
cis-1,2-Dichloroethene	BRL	5.7		ug/Kg-dry	201935	1	01/21/2015 15:36	MD
cis-1,3-Dichloropropene	BRL	5.7		ug/Kg-dry	201935	1	01/21/2015 15:36	MD
Cyclohexane	BRL	5.7		ug/Kg-dry	201935	1	01/21/2015 15:36	MD
Dibromochloromethane	BRL	5.7		ug/Kg-dry	201935	1	01/21/2015 15:36	MD
Dichlorodifluoromethane	BRL	11		ug/Kg-dry	201935	1	01/21/2015 15:36	MD
Ethylbenzene	BRL	5.7		ug/Kg-dry	201935	1	01/21/2015 15:36	MD
Freon-113	BRL	11		ug/Kg-dry	201935	1	01/21/2015 15:36	MD
Isopropylbenzene	BRL	5.7		ug/Kg-dry	201935	1	01/21/2015 15:36	MD
m,p-Xylene	BRL	5.7		ug/Kg-dry	201935	1	01/21/2015 15:36	MD
Methyl acetate	BRL	5.7		ug/Kg-dry	201935	1	01/21/2015 15:36	MD
Methyl tert-butyl ether	BRL	5.7		ug/Kg-dry	201935	1	01/21/2015 15:36	MD
Methylcyclohexane	BRL	5.7		ug/Kg-dry	201935	1	01/21/2015 15:36	MD
Methylene chloride	BRL	23		ug/Kg-dry	201935	1	01/21/2015 15:36	MD
o-Xylene	BRL	5.7		ug/Kg-dry	201935	1	01/21/2015 15:36	MD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: SB-143 (6-8)
Project Name: Lafarge EP	Collection Date: 1/14/2015 11:00:00 AM
Lab ID: 1501B59-003	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B			(SW5035)					
Styrene	BRL	5.7		ug/Kg-dry	201935	1	01/21/2015 15:36	MD
Tetrachloroethene	BRL	5.7		ug/Kg-dry	201935	1	01/21/2015 15:36	MD
Toluene	BRL	5.7		ug/Kg-dry	201935	1	01/21/2015 15:36	MD
trans-1,2-Dichloroethene	BRL	5.7		ug/Kg-dry	201935	1	01/21/2015 15:36	MD
trans-1,3-Dichloropropene	BRL	5.7		ug/Kg-dry	201935	1	01/21/2015 15:36	MD
Trichloroethene	BRL	5.7		ug/Kg-dry	201935	1	01/21/2015 15:36	MD
Trichlorofluoromethane	BRL	5.7		ug/Kg-dry	201935	1	01/21/2015 15:36	MD
Vinyl chloride	BRL	11		ug/Kg-dry	201935	1	01/21/2015 15:36	MD
Surr: 4-Bromofluorobenzene	89.6	70-128		%REC	201935	1	01/21/2015 15:36	MD
Surr: Dibromofluoromethane	89.1	78.2-128		%REC	201935	1	01/21/2015 15:36	MD
Surr: Toluene-d8	85.5	76.5-116		%REC	201935	1	01/21/2015 15:36	MD
PERCENT MOISTURE D2216								
Percent Moisture	20.3	0		wt%	R284187	1	01/22/2015 12:00	PF

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: SB-143 (18-20)
Project Name: Lafarge EP	Collection Date: 1/14/2015 11:25:00 AM
Lab ID: 1501B59-004	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	14		ug/Kg-dry	201935	1	01/21/2015 16:02	MD
1,1,2,2-Tetrachloroethane	BRL	14		ug/Kg-dry	201935	1	01/21/2015 16:02	MD
1,1,2-Trichloroethane	BRL	14		ug/Kg-dry	201935	1	01/21/2015 16:02	MD
1,1-Dichloroethane	BRL	14		ug/Kg-dry	201935	1	01/21/2015 16:02	MD
1,1-Dichloroethene	BRL	14		ug/Kg-dry	201935	1	01/21/2015 16:02	MD
1,2,4-Trichlorobenzene	BRL	14		ug/Kg-dry	201935	1	01/21/2015 16:02	MD
1,2-Dibromo-3-chloropropane	BRL	14		ug/Kg-dry	201935	1	01/21/2015 16:02	MD
1,2-Dibromoethane	BRL	14		ug/Kg-dry	201935	1	01/21/2015 16:02	MD
1,2-Dichlorobenzene	BRL	14		ug/Kg-dry	201935	1	01/21/2015 16:02	MD
1,2-Dichloroethane	BRL	14		ug/Kg-dry	201935	1	01/21/2015 16:02	MD
1,2-Dichloropropane	BRL	14		ug/Kg-dry	201935	1	01/21/2015 16:02	MD
1,3-Dichlorobenzene	BRL	14		ug/Kg-dry	201935	1	01/21/2015 16:02	MD
1,4-Dichlorobenzene	BRL	14		ug/Kg-dry	201935	1	01/21/2015 16:02	MD
2-Butanone	BRL	140		ug/Kg-dry	201935	1	01/21/2015 16:02	MD
2-Hexanone	BRL	28		ug/Kg-dry	201935	1	01/21/2015 16:02	MD
4-Methyl-2-pentanone	BRL	28		ug/Kg-dry	201935	1	01/21/2015 16:02	MD
Acetone	BRL	280		ug/Kg-dry	201935	1	01/21/2015 16:02	MD
Benzene	BRL	14		ug/Kg-dry	201935	1	01/21/2015 16:02	MD
Bromodichloromethane	BRL	14		ug/Kg-dry	201935	1	01/21/2015 16:02	MD
Bromoform	BRL	14		ug/Kg-dry	201935	1	01/21/2015 16:02	MD
Bromomethane	BRL	14		ug/Kg-dry	201935	1	01/21/2015 16:02	MD
Carbon disulfide	BRL	28		ug/Kg-dry	201935	1	01/21/2015 16:02	MD
Carbon tetrachloride	BRL	14		ug/Kg-dry	201935	1	01/21/2015 16:02	MD
Chlorobenzene	BRL	14		ug/Kg-dry	201935	1	01/21/2015 16:02	MD
Chloroethane	BRL	28		ug/Kg-dry	201935	1	01/21/2015 16:02	MD
Chloroform	BRL	14		ug/Kg-dry	201935	1	01/21/2015 16:02	MD
Chloromethane	BRL	28		ug/Kg-dry	201935	1	01/21/2015 16:02	MD
cis-1,2-Dichloroethene	BRL	14		ug/Kg-dry	201935	1	01/21/2015 16:02	MD
cis-1,3-Dichloropropene	BRL	14		ug/Kg-dry	201935	1	01/21/2015 16:02	MD
Cyclohexane	BRL	14		ug/Kg-dry	201935	1	01/21/2015 16:02	MD
Dibromochloromethane	BRL	14		ug/Kg-dry	201935	1	01/21/2015 16:02	MD
Dichlorodifluoromethane	BRL	28		ug/Kg-dry	201935	1	01/21/2015 16:02	MD
Ethylbenzene	BRL	14		ug/Kg-dry	201935	1	01/21/2015 16:02	MD
Freon-113	BRL	28		ug/Kg-dry	201935	1	01/21/2015 16:02	MD
Isopropylbenzene	BRL	14		ug/Kg-dry	201935	1	01/21/2015 16:02	MD
m,p-Xylene	BRL	14		ug/Kg-dry	201935	1	01/21/2015 16:02	MD
Methyl acetate	BRL	14		ug/Kg-dry	201935	1	01/21/2015 16:02	MD
Methyl tert-butyl ether	BRL	14		ug/Kg-dry	201935	1	01/21/2015 16:02	MD
Methylcyclohexane	BRL	14		ug/Kg-dry	201935	1	01/21/2015 16:02	MD
Methylene chloride	BRL	56		ug/Kg-dry	201935	1	01/21/2015 16:02	MD
o-Xylene	BRL	14		ug/Kg-dry	201935	1	01/21/2015 16:02	MD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: SB-143 (18-20)
Project Name: Lafarge EP	Collection Date: 1/14/2015 11:25:00 AM
Lab ID: 1501B59-004	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5035)				
Styrene	BRL	14		ug/Kg-dry	201935	1	01/21/2015 16:02	MD
Tetrachloroethene	BRL	14		ug/Kg-dry	201935	1	01/21/2015 16:02	MD
Toluene	BRL	14		ug/Kg-dry	201935	1	01/21/2015 16:02	MD
trans-1,2-Dichloroethene	BRL	14		ug/Kg-dry	201935	1	01/21/2015 16:02	MD
trans-1,3-Dichloropropene	BRL	14		ug/Kg-dry	201935	1	01/21/2015 16:02	MD
Trichloroethene	BRL	14		ug/Kg-dry	201935	1	01/21/2015 16:02	MD
Trichlorofluoromethane	BRL	14		ug/Kg-dry	201935	1	01/21/2015 16:02	MD
Vinyl chloride	BRL	28		ug/Kg-dry	201935	1	01/21/2015 16:02	MD
Surr: 4-Bromofluorobenzene	87.3	70-128		%REC	201935	1	01/21/2015 16:02	MD
Surr: Dibromofluoromethane	88.1	78.2-128		%REC	201935	1	01/21/2015 16:02	MD
Surr: Toluene-d8	83.2	76.5-116		%REC	201935	1	01/21/2015 16:02	MD
METALS, TOTAL SW6010C				(SW3050B)				
Lead	16.6	5.95		mg/Kg-dry	202038	1	01/22/2015 18:36	JL
PERCENT MOISTURE D2216								
Percent Moisture	18.9	0		wt%	R284187	1	01/22/2015 12:00	PF

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: SB-145 (0-1)
Project Name: Lafarge EP	Collection Date: 1/14/2015 2:01:00 PM
Lab ID: 1501B59-005	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	6.6		ug/Kg-dry	201935	1	01/21/2015 16:27	MD
1,1,2,2-Tetrachloroethane	BRL	6.6		ug/Kg-dry	201935	1	01/21/2015 16:27	MD
1,1,2-Trichloroethane	BRL	6.6		ug/Kg-dry	201935	1	01/21/2015 16:27	MD
1,1-Dichloroethane	BRL	6.6		ug/Kg-dry	201935	1	01/21/2015 16:27	MD
1,1-Dichloroethene	BRL	6.6		ug/Kg-dry	201935	1	01/21/2015 16:27	MD
1,2,4-Trichlorobenzene	BRL	6.6		ug/Kg-dry	201935	1	01/21/2015 16:27	MD
1,2-Dibromo-3-chloropropane	BRL	6.6		ug/Kg-dry	201935	1	01/21/2015 16:27	MD
1,2-Dibromoethane	BRL	6.6		ug/Kg-dry	201935	1	01/21/2015 16:27	MD
1,2-Dichlorobenzene	BRL	6.6		ug/Kg-dry	201935	1	01/21/2015 16:27	MD
1,2-Dichloroethane	BRL	6.6		ug/Kg-dry	201935	1	01/21/2015 16:27	MD
1,2-Dichloropropane	BRL	6.6		ug/Kg-dry	201935	1	01/21/2015 16:27	MD
1,3-Dichlorobenzene	BRL	6.6		ug/Kg-dry	201935	1	01/21/2015 16:27	MD
1,4-Dichlorobenzene	BRL	6.6		ug/Kg-dry	201935	1	01/21/2015 16:27	MD
2-Butanone	BRL	66		ug/Kg-dry	201935	1	01/21/2015 16:27	MD
2-Hexanone	BRL	13		ug/Kg-dry	201935	1	01/21/2015 16:27	MD
4-Methyl-2-pentanone	BRL	13		ug/Kg-dry	201935	1	01/21/2015 16:27	MD
Acetone	BRL	130		ug/Kg-dry	201935	1	01/21/2015 16:27	MD
Benzene	BRL	6.6		ug/Kg-dry	201935	1	01/21/2015 16:27	MD
Bromodichloromethane	BRL	6.6		ug/Kg-dry	201935	1	01/21/2015 16:27	MD
Bromoform	BRL	6.6		ug/Kg-dry	201935	1	01/21/2015 16:27	MD
Bromomethane	BRL	6.6		ug/Kg-dry	201935	1	01/21/2015 16:27	MD
Carbon disulfide	BRL	13		ug/Kg-dry	201935	1	01/21/2015 16:27	MD
Carbon tetrachloride	BRL	6.6		ug/Kg-dry	201935	1	01/21/2015 16:27	MD
Chlorobenzene	BRL	6.6		ug/Kg-dry	201935	1	01/21/2015 16:27	MD
Chloroethane	BRL	13		ug/Kg-dry	201935	1	01/21/2015 16:27	MD
Chloroform	BRL	6.6		ug/Kg-dry	201935	1	01/21/2015 16:27	MD
Chloromethane	BRL	13		ug/Kg-dry	201935	1	01/21/2015 16:27	MD
cis-1,2-Dichloroethene	BRL	6.6		ug/Kg-dry	201935	1	01/21/2015 16:27	MD
cis-1,3-Dichloropropene	BRL	6.6		ug/Kg-dry	201935	1	01/21/2015 16:27	MD
Cyclohexane	BRL	6.6		ug/Kg-dry	201935	1	01/21/2015 16:27	MD
Dibromochloromethane	BRL	6.6		ug/Kg-dry	201935	1	01/21/2015 16:27	MD
Dichlorodifluoromethane	BRL	13		ug/Kg-dry	201935	1	01/21/2015 16:27	MD
Ethylbenzene	BRL	6.6		ug/Kg-dry	201935	1	01/21/2015 16:27	MD
Freon-113	BRL	13		ug/Kg-dry	201935	1	01/21/2015 16:27	MD
Isopropylbenzene	BRL	6.6		ug/Kg-dry	201935	1	01/21/2015 16:27	MD
m,p-Xylene	BRL	6.6		ug/Kg-dry	201935	1	01/21/2015 16:27	MD
Methyl acetate	BRL	6.6		ug/Kg-dry	201935	1	01/21/2015 16:27	MD
Methyl tert-butyl ether	BRL	6.6		ug/Kg-dry	201935	1	01/21/2015 16:27	MD
Methylcyclohexane	BRL	6.6		ug/Kg-dry	201935	1	01/21/2015 16:27	MD
Methylene chloride	BRL	26		ug/Kg-dry	201935	1	01/21/2015 16:27	MD
o-Xylene	BRL	6.6		ug/Kg-dry	201935	1	01/21/2015 16:27	MD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: SB-145 (0-1)
Project Name: Lafarge EP	Collection Date: 1/14/2015 2:01:00 PM
Lab ID: 1501B59-005	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5035)				
Styrene	BRL	6.6		ug/Kg-dry	201935	1	01/21/2015 16:27	MD
Tetrachloroethene	BRL	6.6		ug/Kg-dry	201935	1	01/21/2015 16:27	MD
Toluene	BRL	6.6		ug/Kg-dry	201935	1	01/21/2015 16:27	MD
trans-1,2-Dichloroethene	BRL	6.6		ug/Kg-dry	201935	1	01/21/2015 16:27	MD
trans-1,3-Dichloropropene	BRL	6.6		ug/Kg-dry	201935	1	01/21/2015 16:27	MD
Trichloroethene	BRL	6.6		ug/Kg-dry	201935	1	01/21/2015 16:27	MD
Trichlorofluoromethane	BRL	6.6		ug/Kg-dry	201935	1	01/21/2015 16:27	MD
Vinyl chloride	BRL	13		ug/Kg-dry	201935	1	01/21/2015 16:27	MD
Surr: 4-Bromofluorobenzene	85.9	70-128		%REC	201935	1	01/21/2015 16:27	MD
Surr: Dibromofluoromethane	87.5	78.2-128		%REC	201935	1	01/21/2015 16:27	MD
Surr: Toluene-d8	83.5	76.5-116		%REC	201935	1	01/21/2015 16:27	MD
METALS, TOTAL SW6010C				(SW3050B)				
Lead	20.4	6.93		mg/Kg-dry	202038	1	01/22/2015 18:39	JL
PERCENT MOISTURE D2216								
Percent Moisture	28.1	0		wt%	R284187	1	01/22/2015 12:00	PF

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: SB-145 (1-3)
Project Name: Lafarge EP	Collection Date: 1/14/2015 2:02:00 PM
Lab ID: 1501B59-006	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	7.7		ug/Kg-dry	201935	1	01/21/2015 19:43	JE
1,1,2,2-Tetrachloroethane	BRL	7.7		ug/Kg-dry	201935	1	01/21/2015 19:43	JE
1,1,2-Trichloroethane	BRL	7.7		ug/Kg-dry	201935	1	01/21/2015 19:43	JE
1,1-Dichloroethane	BRL	7.7		ug/Kg-dry	201935	1	01/21/2015 19:43	JE
1,1-Dichloroethene	BRL	7.7		ug/Kg-dry	201935	1	01/21/2015 19:43	JE
1,2,4-Trichlorobenzene	BRL	7.7		ug/Kg-dry	201935	1	01/21/2015 19:43	JE
1,2-Dibromo-3-chloropropane	BRL	7.7		ug/Kg-dry	201935	1	01/21/2015 19:43	JE
1,2-Dibromoethane	BRL	7.7		ug/Kg-dry	201935	1	01/21/2015 19:43	JE
1,2-Dichlorobenzene	BRL	7.7		ug/Kg-dry	201935	1	01/21/2015 19:43	JE
1,2-Dichloroethane	BRL	7.7		ug/Kg-dry	201935	1	01/21/2015 19:43	JE
1,2-Dichloropropane	BRL	7.7		ug/Kg-dry	201935	1	01/21/2015 19:43	JE
1,3-Dichlorobenzene	BRL	7.7		ug/Kg-dry	201935	1	01/21/2015 19:43	JE
1,4-Dichlorobenzene	BRL	7.7		ug/Kg-dry	201935	1	01/21/2015 19:43	JE
2-Butanone	BRL	7.7		ug/Kg-dry	201935	1	01/21/2015 19:43	JE
2-Hexanone	BRL	15		ug/Kg-dry	201935	1	01/21/2015 19:43	JE
4-Methyl-2-pentanone	BRL	15		ug/Kg-dry	201935	1	01/21/2015 19:43	JE
Acetone	BRL	150		ug/Kg-dry	201935	1	01/21/2015 19:43	JE
Benzene	BRL	7.7		ug/Kg-dry	201935	1	01/21/2015 19:43	JE
Bromodichloromethane	BRL	7.7		ug/Kg-dry	201935	1	01/21/2015 19:43	JE
Bromoform	BRL	7.7		ug/Kg-dry	201935	1	01/21/2015 19:43	JE
Bromomethane	BRL	7.7		ug/Kg-dry	201935	1	01/21/2015 19:43	JE
Carbon disulfide	BRL	15		ug/Kg-dry	201935	1	01/21/2015 19:43	JE
Carbon tetrachloride	BRL	7.7		ug/Kg-dry	201935	1	01/21/2015 19:43	JE
Chlorobenzene	BRL	7.7		ug/Kg-dry	201935	1	01/21/2015 19:43	JE
Chloroethane	BRL	15		ug/Kg-dry	201935	1	01/21/2015 19:43	JE
Chloroform	BRL	7.7		ug/Kg-dry	201935	1	01/21/2015 19:43	JE
Chloromethane	BRL	15		ug/Kg-dry	201935	1	01/21/2015 19:43	JE
cis-1,2-Dichloroethene	BRL	7.7		ug/Kg-dry	201935	1	01/21/2015 19:43	JE
cis-1,3-Dichloropropene	BRL	7.7		ug/Kg-dry	201935	1	01/21/2015 19:43	JE
Cyclohexane	BRL	7.7		ug/Kg-dry	201935	1	01/21/2015 19:43	JE
Dibromochloromethane	BRL	7.7		ug/Kg-dry	201935	1	01/21/2015 19:43	JE
Dichlorodifluoromethane	BRL	15		ug/Kg-dry	201935	1	01/21/2015 19:43	JE
Ethylbenzene	BRL	7.7		ug/Kg-dry	201935	1	01/21/2015 19:43	JE
Freon-113	BRL	15		ug/Kg-dry	201935	1	01/21/2015 19:43	JE
Isopropylbenzene	BRL	7.7		ug/Kg-dry	201935	1	01/21/2015 19:43	JE
m,p-Xylene	BRL	7.7		ug/Kg-dry	201935	1	01/21/2015 19:43	JE
Methyl acetate	BRL	7.7		ug/Kg-dry	201935	1	01/21/2015 19:43	JE
Methyl tert-butyl ether	BRL	7.7		ug/Kg-dry	201935	1	01/21/2015 19:43	JE
Methylcyclohexane	BRL	7.7		ug/Kg-dry	201935	1	01/21/2015 19:43	JE
Methylene chloride	BRL	31		ug/Kg-dry	201935	1	01/21/2015 19:43	JE
o-Xylene	BRL	7.7		ug/Kg-dry	201935	1	01/21/2015 19:43	JE

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: SB-145 (1-3)
Project Name: Lafarge EP	Collection Date: 1/14/2015 2:02:00 PM
Lab ID: 1501B59-006	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5035)				
Styrene	BRL	7.7		ug/Kg-dry	201935	1	01/21/2015 19:43	JE
Tetrachloroethene	BRL	7.7		ug/Kg-dry	201935	1	01/21/2015 19:43	JE
Toluene	BRL	7.7		ug/Kg-dry	201935	1	01/21/2015 19:43	JE
trans-1,2-Dichloroethene	BRL	7.7		ug/Kg-dry	201935	1	01/21/2015 19:43	JE
trans-1,3-Dichloropropene	BRL	7.7		ug/Kg-dry	201935	1	01/21/2015 19:43	JE
Trichloroethene	BRL	7.7		ug/Kg-dry	201935	1	01/21/2015 19:43	JE
Trichlorofluoromethane	BRL	7.7		ug/Kg-dry	201935	1	01/21/2015 19:43	JE
Vinyl chloride	BRL	15		ug/Kg-dry	201935	1	01/21/2015 19:43	JE
Surr: 4-Bromofluorobenzene	86.2	70-128		%REC	201935	1	01/21/2015 19:43	JE
Surr: Dibromofluoromethane	89.6	78.2-128		%REC	201935	1	01/21/2015 19:43	JE
Surr: Toluene-d8	83	76.5-116		%REC	201935	1	01/21/2015 19:43	JE
METALS, TOTAL SW6010C				(SW3050B)				
Lead	17.1	6.49		mg/Kg-dry	202038	1	01/22/2015 18:50	JL
PERCENT MOISTURE D2216								
Percent Moisture	24.7	0		wt%	R284187	1	01/22/2015 12:00	PF

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 4-Feb-15

Client: Arcadis	Client Sample ID: SB-145 (8-10)
Project Name: Lafarge EP	Collection Date: 1/14/2015 2:10:00 PM
Lab ID: 1501B59-007	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					(SW3050B)			
Lead	13.0	5.79		mg/Kg-dry	202038	1	01/22/2015 18:55	JL
PERCENT MOISTURE D2216								
Percent Moisture	15.0	0		wt%	R284187	1	01/22/2015 12:00	PF

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: SB-145 (17-19.5)
Project Name: Lafarge EP	Collection Date: 1/14/2015 2:29:00 PM
Lab ID: 1501B59-008	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	5.7		ug/Kg-dry	201935	1	01/21/2015 20:08	JE
1,1,2,2-Tetrachloroethane	BRL	5.7		ug/Kg-dry	201935	1	01/21/2015 20:08	JE
1,1,2-Trichloroethane	BRL	5.7		ug/Kg-dry	201935	1	01/21/2015 20:08	JE
1,1-Dichloroethane	BRL	5.7		ug/Kg-dry	201935	1	01/21/2015 20:08	JE
1,1-Dichloroethene	BRL	5.7		ug/Kg-dry	201935	1	01/21/2015 20:08	JE
1,2,4-Trichlorobenzene	BRL	5.7		ug/Kg-dry	201935	1	01/21/2015 20:08	JE
1,2-Dibromo-3-chloropropane	BRL	5.7		ug/Kg-dry	201935	1	01/21/2015 20:08	JE
1,2-Dibromoethane	BRL	5.7		ug/Kg-dry	201935	1	01/21/2015 20:08	JE
1,2-Dichlorobenzene	BRL	5.7		ug/Kg-dry	201935	1	01/21/2015 20:08	JE
1,2-Dichloroethane	BRL	5.7		ug/Kg-dry	201935	1	01/21/2015 20:08	JE
1,2-Dichloropropane	BRL	5.7		ug/Kg-dry	201935	1	01/21/2015 20:08	JE
1,3-Dichlorobenzene	BRL	5.7		ug/Kg-dry	201935	1	01/21/2015 20:08	JE
1,4-Dichlorobenzene	BRL	5.7		ug/Kg-dry	201935	1	01/21/2015 20:08	JE
2-Butanone	BRL	57		ug/Kg-dry	201935	1	01/21/2015 20:08	JE
2-Hexanone	BRL	11		ug/Kg-dry	201935	1	01/21/2015 20:08	JE
4-Methyl-2-pentanone	BRL	11		ug/Kg-dry	201935	1	01/21/2015 20:08	JE
Acetone	BRL	110		ug/Kg-dry	201935	1	01/21/2015 20:08	JE
Benzene	BRL	5.7		ug/Kg-dry	201935	1	01/21/2015 20:08	JE
Bromodichloromethane	BRL	5.7		ug/Kg-dry	201935	1	01/21/2015 20:08	JE
Bromoform	BRL	5.7		ug/Kg-dry	201935	1	01/21/2015 20:08	JE
Bromomethane	BRL	5.7		ug/Kg-dry	201935	1	01/21/2015 20:08	JE
Carbon disulfide	BRL	11		ug/Kg-dry	201935	1	01/21/2015 20:08	JE
Carbon tetrachloride	BRL	5.7		ug/Kg-dry	201935	1	01/21/2015 20:08	JE
Chlorobenzene	BRL	5.7		ug/Kg-dry	201935	1	01/21/2015 20:08	JE
Chloroethane	BRL	11		ug/Kg-dry	201935	1	01/21/2015 20:08	JE
Chloroform	BRL	5.7		ug/Kg-dry	201935	1	01/21/2015 20:08	JE
Chloromethane	BRL	11		ug/Kg-dry	201935	1	01/21/2015 20:08	JE
cis-1,2-Dichloroethene	BRL	5.7		ug/Kg-dry	201935	1	01/21/2015 20:08	JE
cis-1,3-Dichloropropene	BRL	5.7		ug/Kg-dry	201935	1	01/21/2015 20:08	JE
Cyclohexane	BRL	5.7		ug/Kg-dry	201935	1	01/21/2015 20:08	JE
Dibromochloromethane	BRL	5.7		ug/Kg-dry	201935	1	01/21/2015 20:08	JE
Dichlorodifluoromethane	BRL	11		ug/Kg-dry	201935	1	01/21/2015 20:08	JE
Ethylbenzene	BRL	5.7		ug/Kg-dry	201935	1	01/21/2015 20:08	JE
Freon-113	BRL	11		ug/Kg-dry	201935	1	01/21/2015 20:08	JE
Isopropylbenzene	BRL	5.7		ug/Kg-dry	201935	1	01/21/2015 20:08	JE
m,p-Xylene	BRL	5.7		ug/Kg-dry	201935	1	01/21/2015 20:08	JE
Methyl acetate	BRL	5.7		ug/Kg-dry	201935	1	01/21/2015 20:08	JE
Methyl tert-butyl ether	BRL	5.7		ug/Kg-dry	201935	1	01/21/2015 20:08	JE
Methylcyclohexane	BRL	5.7		ug/Kg-dry	201935	1	01/21/2015 20:08	JE
Methylene chloride	BRL	23		ug/Kg-dry	201935	1	01/21/2015 20:08	JE
o-Xylene	BRL	5.7		ug/Kg-dry	201935	1	01/21/2015 20:08	JE

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: SB-145 (17-19.5)
Project Name: Lafarge EP	Collection Date: 1/14/2015 2:29:00 PM
Lab ID: 1501B59-008	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B			(SW5035)					
Styrene	BRL	5.7		ug/Kg-dry	201935	1	01/21/2015 20:08	JE
Tetrachloroethene	BRL	5.7		ug/Kg-dry	201935	1	01/21/2015 20:08	JE
Toluene	BRL	5.7		ug/Kg-dry	201935	1	01/21/2015 20:08	JE
trans-1,2-Dichloroethene	BRL	5.7		ug/Kg-dry	201935	1	01/21/2015 20:08	JE
trans-1,3-Dichloropropene	BRL	5.7		ug/Kg-dry	201935	1	01/21/2015 20:08	JE
Trichloroethene	BRL	5.7		ug/Kg-dry	201935	1	01/21/2015 20:08	JE
Trichlorofluoromethane	BRL	5.7		ug/Kg-dry	201935	1	01/21/2015 20:08	JE
Vinyl chloride	BRL	11		ug/Kg-dry	201935	1	01/21/2015 20:08	JE
Surr: 4-Bromofluorobenzene	88	70-128		%REC	201935	1	01/21/2015 20:08	JE
Surr: Dibromofluoromethane	89.7	78.2-128		%REC	201935	1	01/21/2015 20:08	JE
Surr: Toluene-d8	84.2	76.5-116		%REC	201935	1	01/21/2015 20:08	JE
METALS, TOTAL SW6010C			(SW3050B)					
Lead	BRL	5.76		mg/Kg-dry	202038	1	01/22/2015 18:59	JL
PERCENT MOISTURE D2216								
Percent Moisture	19.9	0		wt%	R284187	1	01/22/2015 12:00	PF

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: SB-146 (0-1)
Project Name: Lafarge EP	Collection Date: 1/14/2015 2:36:00 PM
Lab ID: 1501B59-009	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	6.9		ug/Kg-dry	201935	1	01/22/2015 15:41	MD
1,1,2,2-Tetrachloroethane	BRL	6.9		ug/Kg-dry	201935	1	01/22/2015 15:41	MD
1,1,2-Trichloroethane	BRL	6.9		ug/Kg-dry	201935	1	01/22/2015 15:41	MD
1,1-Dichloroethane	BRL	6.9		ug/Kg-dry	201935	1	01/22/2015 15:41	MD
1,1-Dichloroethene	BRL	6.9		ug/Kg-dry	201935	1	01/22/2015 15:41	MD
1,2,4-Trichlorobenzene	BRL	6.9		ug/Kg-dry	201935	1	01/22/2015 15:41	MD
1,2-Dibromo-3-chloropropane	BRL	6.9		ug/Kg-dry	201935	1	01/22/2015 15:41	MD
1,2-Dibromoethane	BRL	6.9		ug/Kg-dry	201935	1	01/22/2015 15:41	MD
1,2-Dichlorobenzene	BRL	6.9		ug/Kg-dry	201935	1	01/22/2015 15:41	MD
1,2-Dichloroethane	BRL	6.9		ug/Kg-dry	201935	1	01/22/2015 15:41	MD
1,2-Dichloropropane	BRL	6.9		ug/Kg-dry	201935	1	01/22/2015 15:41	MD
1,3-Dichlorobenzene	BRL	6.9		ug/Kg-dry	201935	1	01/22/2015 15:41	MD
1,4-Dichlorobenzene	BRL	6.9		ug/Kg-dry	201935	1	01/22/2015 15:41	MD
2-Butanone	BRL	69		ug/Kg-dry	201935	1	01/22/2015 15:41	MD
2-Hexanone	BRL	14		ug/Kg-dry	201935	1	01/22/2015 15:41	MD
4-Methyl-2-pentanone	BRL	14		ug/Kg-dry	201935	1	01/22/2015 15:41	MD
Acetone	BRL	140		ug/Kg-dry	201935	1	01/22/2015 15:41	MD
Benzene	BRL	6.9		ug/Kg-dry	201935	1	01/22/2015 15:41	MD
Bromodichloromethane	BRL	6.9		ug/Kg-dry	201935	1	01/22/2015 15:41	MD
Bromoform	BRL	6.9		ug/Kg-dry	201935	1	01/22/2015 15:41	MD
Bromomethane	BRL	6.9		ug/Kg-dry	201935	1	01/22/2015 15:41	MD
Carbon disulfide	17	14		ug/Kg-dry	201935	1	01/22/2015 15:41	MD
Carbon tetrachloride	BRL	6.9		ug/Kg-dry	201935	1	01/22/2015 15:41	MD
Chlorobenzene	BRL	6.9		ug/Kg-dry	201935	1	01/22/2015 15:41	MD
Chloroethane	BRL	14		ug/Kg-dry	201935	1	01/22/2015 15:41	MD
Chloroform	BRL	6.9		ug/Kg-dry	201935	1	01/22/2015 15:41	MD
Chloromethane	BRL	14		ug/Kg-dry	201935	1	01/22/2015 15:41	MD
cis-1,2-Dichloroethene	BRL	6.9		ug/Kg-dry	201935	1	01/22/2015 15:41	MD
cis-1,3-Dichloropropene	BRL	6.9		ug/Kg-dry	201935	1	01/22/2015 15:41	MD
Cyclohexane	62	6.9		ug/Kg-dry	201935	1	01/22/2015 15:41	MD
Dibromochloromethane	BRL	6.9		ug/Kg-dry	201935	1	01/22/2015 15:41	MD
Dichlorodifluoromethane	BRL	14		ug/Kg-dry	201935	1	01/22/2015 15:41	MD
Ethylbenzene	BRL	6.9		ug/Kg-dry	201935	1	01/22/2015 15:41	MD
Freon-113	BRL	14		ug/Kg-dry	201935	1	01/22/2015 15:41	MD
Isopropylbenzene	BRL	6.9		ug/Kg-dry	201935	1	01/22/2015 15:41	MD
m,p-Xylene	BRL	6.9		ug/Kg-dry	201935	1	01/22/2015 15:41	MD
Methyl acetate	BRL	6.9		ug/Kg-dry	201935	1	01/22/2015 15:41	MD
Methyl tert-butyl ether	BRL	6.9		ug/Kg-dry	201935	1	01/22/2015 15:41	MD
Methylcyclohexane	88	6.9		ug/Kg-dry	201935	1	01/22/2015 15:41	MD
Methylene chloride	BRL	28		ug/Kg-dry	201935	1	01/22/2015 15:41	MD
o-Xylene	BRL	6.9		ug/Kg-dry	201935	1	01/22/2015 15:41	MD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: SB-146 (0-1)
Project Name: Lafarge EP	Collection Date: 1/14/2015 2:36:00 PM
Lab ID: 1501B59-009	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5035)				
Styrene	BRL	6.9		ug/Kg-dry	201935	1	01/22/2015 15:41	MD
Tetrachloroethene	BRL	6.9		ug/Kg-dry	201935	1	01/22/2015 15:41	MD
Toluene	BRL	6.9		ug/Kg-dry	201935	1	01/22/2015 15:41	MD
trans-1,2-Dichloroethene	BRL	6.9		ug/Kg-dry	201935	1	01/22/2015 15:41	MD
trans-1,3-Dichloropropene	BRL	6.9		ug/Kg-dry	201935	1	01/22/2015 15:41	MD
Trichloroethene	BRL	6.9		ug/Kg-dry	201935	1	01/22/2015 15:41	MD
Trichlorofluoromethane	BRL	6.9		ug/Kg-dry	201935	1	01/22/2015 15:41	MD
Vinyl chloride	BRL	14		ug/Kg-dry	201935	1	01/22/2015 15:41	MD
Surr: 4-Bromofluorobenzene	73.1	70-128		%REC	201935	1	01/22/2015 15:41	MD
Surr: Dibromofluoromethane	93.7	78.2-128		%REC	201935	1	01/22/2015 15:41	MD
Surr: Toluene-d8	80.1	76.5-116		%REC	201935	1	01/22/2015 15:41	MD
PERCENT MOISTURE D2216								
Percent Moisture	39.8	0		wt%	R284187	1	01/22/2015 12:00	PF

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 4-Feb-15

Client: Arcadis	Client Sample ID: SB-146 (1-3)
Project Name: Lafarge EP	Collection Date: 1/14/2015 2:38:00 PM
Lab ID: 1501B59-010	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					(SW3050B)			
Lead	14.5	5.99		mg/Kg-dry	202038	1	01/22/2015 19:19	JL
PERCENT MOISTURE D2216								
Percent Moisture	16.7	0		wt%	R284187	1	01/22/2015 12:00	PF

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 4-Feb-15

Client: Arcadis	Client Sample ID: SB-146 (8-10)
Project Name: Lafarge EP	Collection Date: 1/14/2015 2:40:00 PM
Lab ID: 1501B59-011	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					(SW3050B)			
Lead	6.77	5.87		mg/Kg-dry	202038	1	01/22/2015 19:25	JL
PERCENT MOISTURE D2216								
Percent Moisture	18.0	0		wt%	R284187	1	01/22/2015 12:00	PF

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: SB-146 (18-19)
Project Name: Lafarge EP	Collection Date: 1/14/2015 2:45:00 PM
Lab ID: 1501B59-012	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	4.5		ug/Kg-dry	201978	1	01/21/2015 20:59	JE
1,1,2,2-Tetrachloroethane	BRL	4.5		ug/Kg-dry	201978	1	01/21/2015 20:59	JE
1,1,2-Trichloroethane	BRL	4.5		ug/Kg-dry	201978	1	01/21/2015 20:59	JE
1,1-Dichloroethane	BRL	4.5		ug/Kg-dry	201978	1	01/21/2015 20:59	JE
1,1-Dichloroethene	BRL	4.5		ug/Kg-dry	201978	1	01/21/2015 20:59	JE
1,2,4-Trichlorobenzene	BRL	4.5		ug/Kg-dry	201978	1	01/21/2015 20:59	JE
1,2-Dibromo-3-chloropropane	BRL	4.5		ug/Kg-dry	201978	1	01/21/2015 20:59	JE
1,2-Dibromoethane	BRL	4.5		ug/Kg-dry	201978	1	01/21/2015 20:59	JE
1,2-Dichlorobenzene	BRL	4.5		ug/Kg-dry	201978	1	01/21/2015 20:59	JE
1,2-Dichloroethane	BRL	4.5		ug/Kg-dry	201978	1	01/21/2015 20:59	JE
1,2-Dichloropropane	BRL	4.5		ug/Kg-dry	201978	1	01/21/2015 20:59	JE
1,3-Dichlorobenzene	BRL	4.5		ug/Kg-dry	201978	1	01/21/2015 20:59	JE
1,4-Dichlorobenzene	BRL	4.5		ug/Kg-dry	201978	1	01/21/2015 20:59	JE
2-Butanone	BRL	45		ug/Kg-dry	201978	1	01/21/2015 20:59	JE
2-Hexanone	BRL	9.0		ug/Kg-dry	201978	1	01/21/2015 20:59	JE
4-Methyl-2-pentanone	BRL	9.0		ug/Kg-dry	201978	1	01/21/2015 20:59	JE
Acetone	BRL	90		ug/Kg-dry	201978	1	01/21/2015 20:59	JE
Benzene	BRL	4.5		ug/Kg-dry	201978	1	01/21/2015 20:59	JE
Bromodichloromethane	BRL	4.5		ug/Kg-dry	201978	1	01/21/2015 20:59	JE
Bromoform	BRL	4.5		ug/Kg-dry	201978	1	01/21/2015 20:59	JE
Bromomethane	BRL	4.5		ug/Kg-dry	201978	1	01/21/2015 20:59	JE
Carbon disulfide	BRL	9.0		ug/Kg-dry	201978	1	01/21/2015 20:59	JE
Carbon tetrachloride	BRL	4.5		ug/Kg-dry	201978	1	01/21/2015 20:59	JE
Chlorobenzene	BRL	4.5		ug/Kg-dry	201978	1	01/21/2015 20:59	JE
Chloroethane	BRL	9.0		ug/Kg-dry	201978	1	01/21/2015 20:59	JE
Chloroform	BRL	4.5		ug/Kg-dry	201978	1	01/21/2015 20:59	JE
Chloromethane	BRL	9.0		ug/Kg-dry	201978	1	01/21/2015 20:59	JE
cis-1,2-Dichloroethene	BRL	4.5		ug/Kg-dry	201978	1	01/21/2015 20:59	JE
cis-1,3-Dichloropropene	BRL	4.5		ug/Kg-dry	201978	1	01/21/2015 20:59	JE
Cyclohexane	BRL	4.5		ug/Kg-dry	201978	1	01/21/2015 20:59	JE
Dibromochloromethane	BRL	4.5		ug/Kg-dry	201978	1	01/21/2015 20:59	JE
Dichlorodifluoromethane	BRL	9.0		ug/Kg-dry	201978	1	01/21/2015 20:59	JE
Ethylbenzene	BRL	4.5		ug/Kg-dry	201978	1	01/21/2015 20:59	JE
Freon-113	BRL	9.0		ug/Kg-dry	201978	1	01/21/2015 20:59	JE
Isopropylbenzene	BRL	4.5		ug/Kg-dry	201978	1	01/21/2015 20:59	JE
m,p-Xylene	BRL	4.5		ug/Kg-dry	201978	1	01/21/2015 20:59	JE
Methyl acetate	BRL	4.5		ug/Kg-dry	201978	1	01/21/2015 20:59	JE
Methyl tert-butyl ether	BRL	4.5		ug/Kg-dry	201978	1	01/21/2015 20:59	JE
Methylcyclohexane	BRL	4.5		ug/Kg-dry	201978	1	01/21/2015 20:59	JE
Methylene chloride	BRL	18		ug/Kg-dry	201978	1	01/21/2015 20:59	JE
o-Xylene	BRL	4.5		ug/Kg-dry	201978	1	01/21/2015 20:59	JE

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: SB-146 (18-19)
Project Name: Lafarge EP	Collection Date: 1/14/2015 2:45:00 PM
Lab ID: 1501B59-012	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5035)			
Styrene	BRL	4.5		ug/Kg-dry	201978	1	01/21/2015 20:59	JE
Tetrachloroethene	BRL	4.5		ug/Kg-dry	201978	1	01/21/2015 20:59	JE
Toluene	BRL	4.5		ug/Kg-dry	201978	1	01/21/2015 20:59	JE
trans-1,2-Dichloroethene	BRL	4.5		ug/Kg-dry	201978	1	01/21/2015 20:59	JE
trans-1,3-Dichloropropene	BRL	4.5		ug/Kg-dry	201978	1	01/21/2015 20:59	JE
Trichloroethene	BRL	4.5		ug/Kg-dry	201978	1	01/21/2015 20:59	JE
Trichlorofluoromethane	BRL	4.5		ug/Kg-dry	201978	1	01/21/2015 20:59	JE
Vinyl chloride	BRL	9.0		ug/Kg-dry	201978	1	01/21/2015 20:59	JE
Surr: 4-Bromofluorobenzene	86.6	70-128		%REC	201978	1	01/21/2015 20:59	JE
Surr: Dibromofluoromethane	87.1	78.2-128		%REC	201978	1	01/21/2015 20:59	JE
Surr: Toluene-d8	83.1	76.5-116		%REC	201978	1	01/21/2015 20:59	JE
METALS, TOTAL SW6010C					(SW3050B)			
Lead	BRL	5.15		mg/Kg-dry	202038	1	01/22/2015 19:29	JL
PERCENT MOISTURE D2216								
Percent Moisture	9.44	0		wt%	R284187	1	01/22/2015 12:00	PF

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: SB-147 (0-1)
Project Name: Lafarge EP	Collection Date: 1/14/2015 2:56:00 PM
Lab ID: 1501B59-013	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	5.5		ug/Kg-dry	201978	1	01/21/2015 21:25	JE
1,1,2,2-Tetrachloroethane	BRL	5.5		ug/Kg-dry	201978	1	01/21/2015 21:25	JE
1,1,2-Trichloroethane	BRL	5.5		ug/Kg-dry	201978	1	01/21/2015 21:25	JE
1,1-Dichloroethane	BRL	5.5		ug/Kg-dry	201978	1	01/21/2015 21:25	JE
1,1-Dichloroethene	BRL	5.5		ug/Kg-dry	201978	1	01/21/2015 21:25	JE
1,2,4-Trichlorobenzene	BRL	5.5		ug/Kg-dry	201978	1	01/21/2015 21:25	JE
1,2-Dibromo-3-chloropropane	BRL	5.5		ug/Kg-dry	201978	1	01/21/2015 21:25	JE
1,2-Dibromoethane	BRL	5.5		ug/Kg-dry	201978	1	01/21/2015 21:25	JE
1,2-Dichlorobenzene	BRL	5.5		ug/Kg-dry	201978	1	01/21/2015 21:25	JE
1,2-Dichloroethane	BRL	5.5		ug/Kg-dry	201978	1	01/21/2015 21:25	JE
1,2-Dichloropropane	BRL	5.5		ug/Kg-dry	201978	1	01/21/2015 21:25	JE
1,3-Dichlorobenzene	BRL	5.5		ug/Kg-dry	201978	1	01/21/2015 21:25	JE
1,4-Dichlorobenzene	BRL	5.5		ug/Kg-dry	201978	1	01/21/2015 21:25	JE
2-Butanone	BRL	55		ug/Kg-dry	201978	1	01/21/2015 21:25	JE
2-Hexanone	BRL	11		ug/Kg-dry	201978	1	01/21/2015 21:25	JE
4-Methyl-2-pentanone	BRL	11		ug/Kg-dry	201978	1	01/21/2015 21:25	JE
Acetone	BRL	110		ug/Kg-dry	201978	1	01/21/2015 21:25	JE
Benzene	BRL	5.5		ug/Kg-dry	201978	1	01/21/2015 21:25	JE
Bromodichloromethane	BRL	5.5		ug/Kg-dry	201978	1	01/21/2015 21:25	JE
Bromoform	BRL	5.5		ug/Kg-dry	201978	1	01/21/2015 21:25	JE
Bromomethane	BRL	5.5		ug/Kg-dry	201978	1	01/21/2015 21:25	JE
Carbon disulfide	BRL	11		ug/Kg-dry	201978	1	01/21/2015 21:25	JE
Carbon tetrachloride	BRL	5.5		ug/Kg-dry	201978	1	01/21/2015 21:25	JE
Chlorobenzene	BRL	5.5		ug/Kg-dry	201978	1	01/21/2015 21:25	JE
Chloroethane	BRL	11		ug/Kg-dry	201978	1	01/21/2015 21:25	JE
Chloroform	BRL	5.5		ug/Kg-dry	201978	1	01/21/2015 21:25	JE
Chloromethane	BRL	11		ug/Kg-dry	201978	1	01/21/2015 21:25	JE
cis-1,2-Dichloroethene	BRL	5.5		ug/Kg-dry	201978	1	01/21/2015 21:25	JE
cis-1,3-Dichloropropene	BRL	5.5		ug/Kg-dry	201978	1	01/21/2015 21:25	JE
Cyclohexane	7.7	5.5		ug/Kg-dry	201978	1	01/21/2015 21:25	JE
Dibromochloromethane	BRL	5.5		ug/Kg-dry	201978	1	01/21/2015 21:25	JE
Dichlorodifluoromethane	BRL	11		ug/Kg-dry	201978	1	01/21/2015 21:25	JE
Ethylbenzene	BRL	5.5		ug/Kg-dry	201978	1	01/21/2015 21:25	JE
Freon-113	BRL	11		ug/Kg-dry	201978	1	01/21/2015 21:25	JE
Isopropylbenzene	BRL	5.5		ug/Kg-dry	201978	1	01/21/2015 21:25	JE
m,p-Xylene	40	5.5		ug/Kg-dry	201978	1	01/21/2015 21:25	JE
Methyl acetate	BRL	5.5		ug/Kg-dry	201978	1	01/21/2015 21:25	JE
Methyl tert-butyl ether	BRL	5.5		ug/Kg-dry	201978	1	01/21/2015 21:25	JE
Methylcyclohexane	13	5.5		ug/Kg-dry	201978	1	01/21/2015 21:25	JE
Methylene chloride	BRL	22		ug/Kg-dry	201978	1	01/21/2015 21:25	JE
o-Xylene	7.9	5.5		ug/Kg-dry	201978	1	01/21/2015 21:25	JE

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: SB-147 (0-1)
Project Name: Lafarge EP	Collection Date: 1/14/2015 2:56:00 PM
Lab ID: 1501B59-013	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5035)				
Styrene	BRL	5.5		ug/Kg-dry	201978	1	01/21/2015 21:25	JE
Tetrachloroethene	BRL	5.5		ug/Kg-dry	201978	1	01/21/2015 21:25	JE
Toluene	BRL	5.5		ug/Kg-dry	201978	1	01/21/2015 21:25	JE
trans-1,2-Dichloroethene	BRL	5.5		ug/Kg-dry	201978	1	01/21/2015 21:25	JE
trans-1,3-Dichloropropene	BRL	5.5		ug/Kg-dry	201978	1	01/21/2015 21:25	JE
Trichloroethene	BRL	5.5		ug/Kg-dry	201978	1	01/21/2015 21:25	JE
Trichlorofluoromethane	BRL	5.5		ug/Kg-dry	201978	1	01/21/2015 21:25	JE
Vinyl chloride	BRL	11		ug/Kg-dry	201978	1	01/21/2015 21:25	JE
Surr: 4-Bromofluorobenzene	81.8	70-128		%REC	201978	1	01/21/2015 21:25	JE
Surr: Dibromofluoromethane	89.8	78.2-128		%REC	201978	1	01/21/2015 21:25	JE
Surr: Toluene-d8	83.8	76.5-116		%REC	201978	1	01/21/2015 21:25	JE
METALS, TOTAL SW6010C				(SW3050B)				
Lead	141	5.19		mg/Kg-dry	202038	1	01/22/2015 19:33	JL
PERCENT MOISTURE D2216								
Percent Moisture	10.1	0		wt%	R284187	1	01/22/2015 12:00	PF

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 4-Feb-15

Client: Arcadis	Client Sample ID: SB-147 (1-3)
Project Name: Lafarge EP	Collection Date: 1/14/2015 2:57:00 PM
Lab ID: 1501B59-014	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					(SW3050B)			
Lead	45.4	5.34		mg/Kg-dry	202038	1	01/22/2015 19:37	JL
PERCENT MOISTURE D2216								
Percent Moisture	9.05	0		wt%	R284187	1	01/22/2015 12:00	PF

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 4-Feb-15

Client: Arcadis	Client Sample ID: SB-147 (8-10)
Project Name: Lafarge EP	Collection Date: 1/14/2015 2:59:00 PM
Lab ID: 1501B59-015	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					(SW3050B)			
Lead	BRL	6.26		mg/Kg-dry	202038	1	01/22/2015 19:41	JL
PERCENT MOISTURE D2216								
Percent Moisture	22.3	0		wt%	R284187	1	01/22/2015 12:00	PF

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: SB-147 (22-24)
Project Name: Lafarge EP	Collection Date: 1/14/2015 3:05:00 PM
Lab ID: 1501B59-016	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	8.8		ug/Kg-dry	201978	1	01/21/2015 21:50	JE
1,1,2,2-Tetrachloroethane	BRL	8.8		ug/Kg-dry	201978	1	01/21/2015 21:50	JE
1,1,2-Trichloroethane	BRL	8.8		ug/Kg-dry	201978	1	01/21/2015 21:50	JE
1,1-Dichloroethane	BRL	8.8		ug/Kg-dry	201978	1	01/21/2015 21:50	JE
1,1-Dichloroethene	BRL	8.8		ug/Kg-dry	201978	1	01/21/2015 21:50	JE
1,2,4-Trichlorobenzene	BRL	8.8		ug/Kg-dry	201978	1	01/21/2015 21:50	JE
1,2-Dibromo-3-chloropropane	BRL	8.8		ug/Kg-dry	201978	1	01/21/2015 21:50	JE
1,2-Dibromoethane	BRL	8.8		ug/Kg-dry	201978	1	01/21/2015 21:50	JE
1,2-Dichlorobenzene	BRL	8.8		ug/Kg-dry	201978	1	01/21/2015 21:50	JE
1,2-Dichloroethane	BRL	8.8		ug/Kg-dry	201978	1	01/21/2015 21:50	JE
1,2-Dichloropropane	BRL	8.8		ug/Kg-dry	201978	1	01/21/2015 21:50	JE
1,3-Dichlorobenzene	BRL	8.8		ug/Kg-dry	201978	1	01/21/2015 21:50	JE
1,4-Dichlorobenzene	BRL	8.8		ug/Kg-dry	201978	1	01/21/2015 21:50	JE
2-Butanone	BRL	88		ug/Kg-dry	201978	1	01/21/2015 21:50	JE
2-Hexanone	BRL	18		ug/Kg-dry	201978	1	01/21/2015 21:50	JE
4-Methyl-2-pentanone	BRL	18		ug/Kg-dry	201978	1	01/21/2015 21:50	JE
Acetone	BRL	180		ug/Kg-dry	201978	1	01/21/2015 21:50	JE
Benzene	BRL	8.8		ug/Kg-dry	201978	1	01/21/2015 21:50	JE
Bromodichloromethane	BRL	8.8		ug/Kg-dry	201978	1	01/21/2015 21:50	JE
Bromoform	BRL	8.8		ug/Kg-dry	201978	1	01/21/2015 21:50	JE
Bromomethane	BRL	8.8		ug/Kg-dry	201978	1	01/21/2015 21:50	JE
Carbon disulfide	BRL	18		ug/Kg-dry	201978	1	01/21/2015 21:50	JE
Carbon tetrachloride	BRL	8.8		ug/Kg-dry	201978	1	01/21/2015 21:50	JE
Chlorobenzene	BRL	8.8		ug/Kg-dry	201978	1	01/21/2015 21:50	JE
Chloroethane	BRL	18		ug/Kg-dry	201978	1	01/21/2015 21:50	JE
Chloroform	BRL	8.8		ug/Kg-dry	201978	1	01/21/2015 21:50	JE
Chloromethane	BRL	18		ug/Kg-dry	201978	1	01/21/2015 21:50	JE
cis-1,2-Dichloroethene	BRL	8.8		ug/Kg-dry	201978	1	01/21/2015 21:50	JE
cis-1,3-Dichloropropene	BRL	8.8		ug/Kg-dry	201978	1	01/21/2015 21:50	JE
Cyclohexane	BRL	8.8		ug/Kg-dry	201978	1	01/21/2015 21:50	JE
Dibromochloromethane	BRL	8.8		ug/Kg-dry	201978	1	01/21/2015 21:50	JE
Dichlorodifluoromethane	BRL	18		ug/Kg-dry	201978	1	01/21/2015 21:50	JE
Ethylbenzene	BRL	8.8		ug/Kg-dry	201978	1	01/21/2015 21:50	JE
Freon-113	BRL	18		ug/Kg-dry	201978	1	01/21/2015 21:50	JE
Isopropylbenzene	BRL	8.8		ug/Kg-dry	201978	1	01/21/2015 21:50	JE
m,p-Xylene	BRL	8.8		ug/Kg-dry	201978	1	01/21/2015 21:50	JE
Methyl acetate	BRL	8.8		ug/Kg-dry	201978	1	01/21/2015 21:50	JE
Methyl tert-butyl ether	BRL	8.8		ug/Kg-dry	201978	1	01/21/2015 21:50	JE
Methylcyclohexane	BRL	8.8		ug/Kg-dry	201978	1	01/21/2015 21:50	JE
Methylene chloride	BRL	35		ug/Kg-dry	201978	1	01/21/2015 21:50	JE
o-Xylene	BRL	8.8		ug/Kg-dry	201978	1	01/21/2015 21:50	JE

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: SB-147 (22-24)
Project Name: Lafarge EP	Collection Date: 1/14/2015 3:05:00 PM
Lab ID: 1501B59-016	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B		(SW5035)						
Styrene	BRL	8.8		ug/Kg-dry	201978	1	01/21/2015 21:50	JE
Tetrachloroethene	BRL	8.8		ug/Kg-dry	201978	1	01/21/2015 21:50	JE
Toluene	BRL	8.8		ug/Kg-dry	201978	1	01/21/2015 21:50	JE
trans-1,2-Dichloroethene	BRL	8.8		ug/Kg-dry	201978	1	01/21/2015 21:50	JE
trans-1,3-Dichloropropene	BRL	8.8		ug/Kg-dry	201978	1	01/21/2015 21:50	JE
Trichloroethene	BRL	8.8		ug/Kg-dry	201978	1	01/21/2015 21:50	JE
Trichlorofluoromethane	BRL	8.8		ug/Kg-dry	201978	1	01/21/2015 21:50	JE
Vinyl chloride	BRL	18		ug/Kg-dry	201978	1	01/21/2015 21:50	JE
Surr: 4-Bromofluorobenzene	88.7	70-128		%REC	201978	1	01/21/2015 21:50	JE
Surr: Dibromofluoromethane	89.4	78.2-128		%REC	201978	1	01/21/2015 21:50	JE
Surr: Toluene-d8	87.2	76.5-116		%REC	201978	1	01/21/2015 21:50	JE
METALS, TOTAL SW6010C		(SW3050B)						
Lead	BRL	6.43		mg/Kg-dry	202038	1	01/22/2015 19:45	JL
PERCENT MOISTURE D2216								
Percent Moisture	22.7	0		wt%	R284187	1	01/22/2015 12:00	PF

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: SB-150 (0-1)
Project Name: Lafarge EP	Collection Date: 1/15/2015 9:35:00 AM
Lab ID: 1501B59-017	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	4.1		ug/Kg-dry	201978	1	01/21/2015 22:16	JE
1,1,2,2-Tetrachloroethane	BRL	4.1		ug/Kg-dry	201978	1	01/21/2015 22:16	JE
1,1,2-Trichloroethane	BRL	4.1		ug/Kg-dry	201978	1	01/21/2015 22:16	JE
1,1-Dichloroethane	BRL	4.1		ug/Kg-dry	201978	1	01/21/2015 22:16	JE
1,1-Dichloroethene	BRL	4.1		ug/Kg-dry	201978	1	01/21/2015 22:16	JE
1,2,4-Trichlorobenzene	BRL	4.1		ug/Kg-dry	201978	1	01/21/2015 22:16	JE
1,2-Dibromo-3-chloropropane	BRL	4.1		ug/Kg-dry	201978	1	01/21/2015 22:16	JE
1,2-Dibromoethane	BRL	4.1		ug/Kg-dry	201978	1	01/21/2015 22:16	JE
1,2-Dichlorobenzene	BRL	4.1		ug/Kg-dry	201978	1	01/21/2015 22:16	JE
1,2-Dichloroethane	BRL	4.1		ug/Kg-dry	201978	1	01/21/2015 22:16	JE
1,2-Dichloropropane	BRL	4.1		ug/Kg-dry	201978	1	01/21/2015 22:16	JE
1,3-Dichlorobenzene	BRL	4.1		ug/Kg-dry	201978	1	01/21/2015 22:16	JE
1,4-Dichlorobenzene	BRL	4.1		ug/Kg-dry	201978	1	01/21/2015 22:16	JE
2-Butanone	BRL	41		ug/Kg-dry	201978	1	01/21/2015 22:16	JE
2-Hexanone	BRL	8.2		ug/Kg-dry	201978	1	01/21/2015 22:16	JE
4-Methyl-2-pentanone	BRL	8.2		ug/Kg-dry	201978	1	01/21/2015 22:16	JE
Acetone	110	82		ug/Kg-dry	201978	1	01/21/2015 22:16	JE
Benzene	BRL	4.1		ug/Kg-dry	201978	1	01/21/2015 22:16	JE
Bromodichloromethane	BRL	4.1		ug/Kg-dry	201978	1	01/21/2015 22:16	JE
Bromoform	BRL	4.1		ug/Kg-dry	201978	1	01/21/2015 22:16	JE
Bromomethane	BRL	4.1		ug/Kg-dry	201978	1	01/21/2015 22:16	JE
Carbon disulfide	BRL	8.2		ug/Kg-dry	201978	1	01/21/2015 22:16	JE
Carbon tetrachloride	BRL	4.1		ug/Kg-dry	201978	1	01/21/2015 22:16	JE
Chlorobenzene	BRL	4.1		ug/Kg-dry	201978	1	01/21/2015 22:16	JE
Chloroethane	BRL	8.2		ug/Kg-dry	201978	1	01/21/2015 22:16	JE
Chloroform	BRL	4.1		ug/Kg-dry	201978	1	01/21/2015 22:16	JE
Chloromethane	BRL	8.2		ug/Kg-dry	201978	1	01/21/2015 22:16	JE
cis-1,2-Dichloroethene	BRL	4.1		ug/Kg-dry	201978	1	01/21/2015 22:16	JE
cis-1,3-Dichloropropene	BRL	4.1		ug/Kg-dry	201978	1	01/21/2015 22:16	JE
Cyclohexane	BRL	4.1		ug/Kg-dry	201978	1	01/21/2015 22:16	JE
Dibromochloromethane	BRL	4.1		ug/Kg-dry	201978	1	01/21/2015 22:16	JE
Dichlorodifluoromethane	BRL	8.2		ug/Kg-dry	201978	1	01/21/2015 22:16	JE
Ethylbenzene	BRL	4.1		ug/Kg-dry	201978	1	01/21/2015 22:16	JE
Freon-113	BRL	8.2		ug/Kg-dry	201978	1	01/21/2015 22:16	JE
Isopropylbenzene	BRL	4.1		ug/Kg-dry	201978	1	01/21/2015 22:16	JE
m,p-Xylene	BRL	4.1		ug/Kg-dry	201978	1	01/21/2015 22:16	JE
Methyl acetate	BRL	4.1		ug/Kg-dry	201978	1	01/21/2015 22:16	JE
Methyl tert-butyl ether	BRL	4.1		ug/Kg-dry	201978	1	01/21/2015 22:16	JE
Methylcyclohexane	BRL	4.1		ug/Kg-dry	201978	1	01/21/2015 22:16	JE
Methylene chloride	BRL	16		ug/Kg-dry	201978	1	01/21/2015 22:16	JE
o-Xylene	BRL	4.1		ug/Kg-dry	201978	1	01/21/2015 22:16	JE

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: SB-150 (0-1)
Project Name: Lafarge EP	Collection Date: 1/15/2015 9:35:00 AM
Lab ID: 1501B59-017	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5035)				
Styrene	BRL	4.1		ug/Kg-dry	201978	1	01/21/2015 22:16	JE
Tetrachloroethene	BRL	4.1		ug/Kg-dry	201978	1	01/21/2015 22:16	JE
Toluene	BRL	4.1		ug/Kg-dry	201978	1	01/21/2015 22:16	JE
trans-1,2-Dichloroethene	BRL	4.1		ug/Kg-dry	201978	1	01/21/2015 22:16	JE
trans-1,3-Dichloropropene	BRL	4.1		ug/Kg-dry	201978	1	01/21/2015 22:16	JE
Trichloroethene	BRL	4.1		ug/Kg-dry	201978	1	01/21/2015 22:16	JE
Trichlorofluoromethane	BRL	4.1		ug/Kg-dry	201978	1	01/21/2015 22:16	JE
Vinyl chloride	BRL	8.2		ug/Kg-dry	201978	1	01/21/2015 22:16	JE
Surr: 4-Bromofluorobenzene	83.3	70-128		%REC	201978	1	01/21/2015 22:16	JE
Surr: Dibromofluoromethane	92.1	78.2-128		%REC	201978	1	01/21/2015 22:16	JE
Surr: Toluene-d8	83	76.5-116		%REC	201978	1	01/21/2015 22:16	JE
METALS, TOTAL SW6010C				(SW3050B)				
Lead	107	5.26		mg/Kg-dry	202038	1	01/22/2015 19:55	JL
PERCENT MOISTURE D2216								
Percent Moisture	9.90	0		wt%	R284187	1	01/22/2015 12:00	PF

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 4-Feb-15

Client: Arcadis	Client Sample ID: SB-150 (1-3)
Project Name: Lafarge EP	Collection Date: 1/15/2015 9:40:00 AM
Lab ID: 1501B59-018	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					(SW3050B)			
Lead	141	5.94		mg/Kg-dry	202038	1	01/22/2015 19:59	JL
PERCENT MOISTURE D2216								
Percent Moisture	21.0	0		wt%	R284187	1	01/22/2015 12:00	PF

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 4-Feb-15

Client: Arcadis	Client Sample ID: SB-150 (8-10)
Project Name: Lafarge EP	Collection Date: 1/15/2015 9:45:00 AM
Lab ID: 1501B59-019	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					(SW3050B)			
Lead	61.3	6.07		mg/Kg-dry	202038	1	01/22/2015 20:03	JL
PERCENT MOISTURE D2216								
Percent Moisture	18.4	0		wt%	R284187	1	01/22/2015 12:00	PF

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: SB-150 (16-18)
Project Name: Lafarge EP	Collection Date: 1/15/2015 9:52:00 AM
Lab ID: 1501B59-020	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	4.7		ug/Kg-dry	201978	1	01/21/2015 22:41	JE
1,1,2,2-Tetrachloroethane	BRL	4.7		ug/Kg-dry	201978	1	01/21/2015 22:41	JE
1,1,2-Trichloroethane	BRL	4.7		ug/Kg-dry	201978	1	01/21/2015 22:41	JE
1,1-Dichloroethane	BRL	4.7		ug/Kg-dry	201978	1	01/21/2015 22:41	JE
1,1-Dichloroethene	BRL	4.7		ug/Kg-dry	201978	1	01/21/2015 22:41	JE
1,2,4-Trichlorobenzene	BRL	4.7		ug/Kg-dry	201978	1	01/21/2015 22:41	JE
1,2-Dibromo-3-chloropropane	BRL	4.7		ug/Kg-dry	201978	1	01/21/2015 22:41	JE
1,2-Dibromoethane	BRL	4.7		ug/Kg-dry	201978	1	01/21/2015 22:41	JE
1,2-Dichlorobenzene	BRL	4.7		ug/Kg-dry	201978	1	01/21/2015 22:41	JE
1,2-Dichloroethane	BRL	4.7		ug/Kg-dry	201978	1	01/21/2015 22:41	JE
1,2-Dichloropropane	BRL	4.7		ug/Kg-dry	201978	1	01/21/2015 22:41	JE
1,3-Dichlorobenzene	BRL	4.7		ug/Kg-dry	201978	1	01/21/2015 22:41	JE
1,4-Dichlorobenzene	BRL	4.7		ug/Kg-dry	201978	1	01/21/2015 22:41	JE
2-Butanone	BRL	47		ug/Kg-dry	201978	1	01/21/2015 22:41	JE
2-Hexanone	BRL	9.3		ug/Kg-dry	201978	1	01/21/2015 22:41	JE
4-Methyl-2-pentanone	BRL	9.3		ug/Kg-dry	201978	1	01/21/2015 22:41	JE
Acetone	BRL	93		ug/Kg-dry	201978	1	01/21/2015 22:41	JE
Benzene	BRL	4.7		ug/Kg-dry	201978	1	01/21/2015 22:41	JE
Bromodichloromethane	BRL	4.7		ug/Kg-dry	201978	1	01/21/2015 22:41	JE
Bromoform	BRL	4.7		ug/Kg-dry	201978	1	01/21/2015 22:41	JE
Bromomethane	BRL	4.7		ug/Kg-dry	201978	1	01/21/2015 22:41	JE
Carbon disulfide	BRL	9.3		ug/Kg-dry	201978	1	01/21/2015 22:41	JE
Carbon tetrachloride	BRL	4.7		ug/Kg-dry	201978	1	01/21/2015 22:41	JE
Chlorobenzene	BRL	4.7		ug/Kg-dry	201978	1	01/21/2015 22:41	JE
Chloroethane	BRL	9.3		ug/Kg-dry	201978	1	01/21/2015 22:41	JE
Chloroform	BRL	4.7		ug/Kg-dry	201978	1	01/21/2015 22:41	JE
Chloromethane	BRL	9.3		ug/Kg-dry	201978	1	01/21/2015 22:41	JE
cis-1,2-Dichloroethene	BRL	4.7		ug/Kg-dry	201978	1	01/21/2015 22:41	JE
cis-1,3-Dichloropropene	BRL	4.7		ug/Kg-dry	201978	1	01/21/2015 22:41	JE
Cyclohexane	BRL	4.7		ug/Kg-dry	201978	1	01/21/2015 22:41	JE
Dibromochloromethane	BRL	4.7		ug/Kg-dry	201978	1	01/21/2015 22:41	JE
Dichlorodifluoromethane	BRL	9.3		ug/Kg-dry	201978	1	01/21/2015 22:41	JE
Ethylbenzene	BRL	4.7		ug/Kg-dry	201978	1	01/21/2015 22:41	JE
Freon-113	BRL	9.3		ug/Kg-dry	201978	1	01/21/2015 22:41	JE
Isopropylbenzene	BRL	4.7		ug/Kg-dry	201978	1	01/21/2015 22:41	JE
m,p-Xylene	BRL	4.7		ug/Kg-dry	201978	1	01/21/2015 22:41	JE
Methyl acetate	BRL	4.7		ug/Kg-dry	201978	1	01/21/2015 22:41	JE
Methyl tert-butyl ether	BRL	4.7		ug/Kg-dry	201978	1	01/21/2015 22:41	JE
Methylcyclohexane	BRL	4.7		ug/Kg-dry	201978	1	01/21/2015 22:41	JE
Methylene chloride	BRL	19		ug/Kg-dry	201978	1	01/21/2015 22:41	JE
o-Xylene	BRL	4.7		ug/Kg-dry	201978	1	01/21/2015 22:41	JE

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: SB-150 (16-18)
Project Name: Lafarge EP	Collection Date: 1/15/2015 9:52:00 AM
Lab ID: 1501B59-020	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B			(SW5035)					
Styrene	BRL	4.7		ug/Kg-dry	201978	1	01/21/2015 22:41	JE
Tetrachloroethene	BRL	4.7		ug/Kg-dry	201978	1	01/21/2015 22:41	JE
Toluene	BRL	4.7		ug/Kg-dry	201978	1	01/21/2015 22:41	JE
trans-1,2-Dichloroethene	BRL	4.7		ug/Kg-dry	201978	1	01/21/2015 22:41	JE
trans-1,3-Dichloropropene	BRL	4.7		ug/Kg-dry	201978	1	01/21/2015 22:41	JE
Trichloroethene	BRL	4.7		ug/Kg-dry	201978	1	01/21/2015 22:41	JE
Trichlorofluoromethane	BRL	4.7		ug/Kg-dry	201978	1	01/21/2015 22:41	JE
Vinyl chloride	BRL	9.3		ug/Kg-dry	201978	1	01/21/2015 22:41	JE
Surr: 4-Bromofluorobenzene	92.9	70-128		%REC	201978	1	01/21/2015 22:41	JE
Surr: Dibromofluoromethane	89.7	78.2-128		%REC	201978	1	01/21/2015 22:41	JE
Surr: Toluene-d8	84.1	76.5-116		%REC	201978	1	01/21/2015 22:41	JE
PERCENT MOISTURE D2216								
Percent Moisture	21.0	0		wt%	R284187	1	01/22/2015 12:00	PF

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: SB-150 (22-24)
Project Name: Lafarge EP	Collection Date: 1/15/2015 9:57:00 AM
Lab ID: 1501B59-021	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	7.3		ug/Kg-dry	201978	1	01/21/2015 23:07	JE
1,1,2,2-Tetrachloroethane	BRL	7.3		ug/Kg-dry	201978	1	01/21/2015 23:07	JE
1,1,2-Trichloroethane	BRL	7.3		ug/Kg-dry	201978	1	01/21/2015 23:07	JE
1,1-Dichloroethane	BRL	7.3		ug/Kg-dry	201978	1	01/21/2015 23:07	JE
1,1-Dichloroethene	BRL	7.3		ug/Kg-dry	201978	1	01/21/2015 23:07	JE
1,2,4-Trichlorobenzene	BRL	7.3		ug/Kg-dry	201978	1	01/21/2015 23:07	JE
1,2-Dibromo-3-chloropropane	BRL	7.3		ug/Kg-dry	201978	1	01/21/2015 23:07	JE
1,2-Dibromoethane	BRL	7.3		ug/Kg-dry	201978	1	01/21/2015 23:07	JE
1,2-Dichlorobenzene	BRL	7.3		ug/Kg-dry	201978	1	01/21/2015 23:07	JE
1,2-Dichloroethane	BRL	7.3		ug/Kg-dry	201978	1	01/21/2015 23:07	JE
1,2-Dichloropropane	BRL	7.3		ug/Kg-dry	201978	1	01/21/2015 23:07	JE
1,3-Dichlorobenzene	BRL	7.3		ug/Kg-dry	201978	1	01/21/2015 23:07	JE
1,4-Dichlorobenzene	BRL	7.3		ug/Kg-dry	201978	1	01/21/2015 23:07	JE
2-Butanone	BRL	7.3		ug/Kg-dry	201978	1	01/21/2015 23:07	JE
2-Hexanone	BRL	15		ug/Kg-dry	201978	1	01/21/2015 23:07	JE
4-Methyl-2-pentanone	BRL	15		ug/Kg-dry	201978	1	01/21/2015 23:07	JE
Acetone	BRL	150		ug/Kg-dry	201978	1	01/21/2015 23:07	JE
Benzene	BRL	7.3		ug/Kg-dry	201978	1	01/21/2015 23:07	JE
Bromodichloromethane	BRL	7.3		ug/Kg-dry	201978	1	01/21/2015 23:07	JE
Bromoform	BRL	7.3		ug/Kg-dry	201978	1	01/21/2015 23:07	JE
Bromomethane	BRL	7.3		ug/Kg-dry	201978	1	01/21/2015 23:07	JE
Carbon disulfide	BRL	15		ug/Kg-dry	201978	1	01/21/2015 23:07	JE
Carbon tetrachloride	BRL	7.3		ug/Kg-dry	201978	1	01/21/2015 23:07	JE
Chlorobenzene	BRL	7.3		ug/Kg-dry	201978	1	01/21/2015 23:07	JE
Chloroethane	BRL	15		ug/Kg-dry	201978	1	01/21/2015 23:07	JE
Chloroform	BRL	7.3		ug/Kg-dry	201978	1	01/21/2015 23:07	JE
Chloromethane	BRL	15		ug/Kg-dry	201978	1	01/21/2015 23:07	JE
cis-1,2-Dichloroethene	BRL	7.3		ug/Kg-dry	201978	1	01/21/2015 23:07	JE
cis-1,3-Dichloropropene	BRL	7.3		ug/Kg-dry	201978	1	01/21/2015 23:07	JE
Cyclohexane	BRL	7.3		ug/Kg-dry	201978	1	01/21/2015 23:07	JE
Dibromochloromethane	BRL	7.3		ug/Kg-dry	201978	1	01/21/2015 23:07	JE
Dichlorodifluoromethane	BRL	15		ug/Kg-dry	201978	1	01/21/2015 23:07	JE
Ethylbenzene	BRL	7.3		ug/Kg-dry	201978	1	01/21/2015 23:07	JE
Freon-113	BRL	15		ug/Kg-dry	201978	1	01/21/2015 23:07	JE
Isopropylbenzene	BRL	7.3		ug/Kg-dry	201978	1	01/21/2015 23:07	JE
m,p-Xylene	BRL	7.3		ug/Kg-dry	201978	1	01/21/2015 23:07	JE
Methyl acetate	BRL	7.3		ug/Kg-dry	201978	1	01/21/2015 23:07	JE
Methyl tert-butyl ether	BRL	7.3		ug/Kg-dry	201978	1	01/21/2015 23:07	JE
Methylcyclohexane	BRL	7.3		ug/Kg-dry	201978	1	01/21/2015 23:07	JE
Methylene chloride	BRL	29		ug/Kg-dry	201978	1	01/21/2015 23:07	JE
o-Xylene	BRL	7.3		ug/Kg-dry	201978	1	01/21/2015 23:07	JE

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: SB-150 (22-24)
Project Name: Lafarge EP	Collection Date: 1/15/2015 9:57:00 AM
Lab ID: 1501B59-021	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5035)			
Styrene	BRL	7.3		ug/Kg-dry	201978	1	01/21/2015 23:07	JE
Tetrachloroethene	BRL	7.3		ug/Kg-dry	201978	1	01/21/2015 23:07	JE
Toluene	BRL	7.3		ug/Kg-dry	201978	1	01/21/2015 23:07	JE
trans-1,2-Dichloroethene	BRL	7.3		ug/Kg-dry	201978	1	01/21/2015 23:07	JE
trans-1,3-Dichloropropene	BRL	7.3		ug/Kg-dry	201978	1	01/21/2015 23:07	JE
Trichloroethene	BRL	7.3		ug/Kg-dry	201978	1	01/21/2015 23:07	JE
Trichlorofluoromethane	BRL	7.3		ug/Kg-dry	201978	1	01/21/2015 23:07	JE
Vinyl chloride	BRL	15		ug/Kg-dry	201978	1	01/21/2015 23:07	JE
Surr: 4-Bromofluorobenzene	90.7	70-128		%REC	201978	1	01/21/2015 23:07	JE
Surr: Dibromofluoromethane	89.5	78.2-128		%REC	201978	1	01/21/2015 23:07	JE
Surr: Toluene-d8	86.6	76.5-116		%REC	201978	1	01/21/2015 23:07	JE
METALS, TOTAL SW6010C					(SW3050B)			
Lead	10.6	6.08		mg/Kg-dry	202038	1	01/22/2015 20:07	JL
PERCENT MOISTURE D2216								
Percent Moisture	18.4	0		wt%	R284187	1	01/22/2015 12:00	PF

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: SB-151 (0-1)
Project Name: Lafarge EP	Collection Date: 1/15/2015 10:45:00 AM
Lab ID: 1501B59-022	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	5.2		ug/Kg-dry	201978	1	01/21/2015 23:32	JE
1,1,2,2-Tetrachloroethane	BRL	5.2		ug/Kg-dry	201978	1	01/21/2015 23:32	JE
1,1,2-Trichloroethane	BRL	5.2		ug/Kg-dry	201978	1	01/21/2015 23:32	JE
1,1-Dichloroethane	BRL	5.2		ug/Kg-dry	201978	1	01/21/2015 23:32	JE
1,1-Dichloroethene	BRL	5.2		ug/Kg-dry	201978	1	01/21/2015 23:32	JE
1,2,4-Trichlorobenzene	BRL	5.2		ug/Kg-dry	201978	1	01/21/2015 23:32	JE
1,2-Dibromo-3-chloropropane	BRL	5.2		ug/Kg-dry	201978	1	01/21/2015 23:32	JE
1,2-Dibromoethane	BRL	5.2		ug/Kg-dry	201978	1	01/21/2015 23:32	JE
1,2-Dichlorobenzene	BRL	5.2		ug/Kg-dry	201978	1	01/21/2015 23:32	JE
1,2-Dichloroethane	BRL	5.2		ug/Kg-dry	201978	1	01/21/2015 23:32	JE
1,2-Dichloropropane	BRL	5.2		ug/Kg-dry	201978	1	01/21/2015 23:32	JE
1,3-Dichlorobenzene	BRL	5.2		ug/Kg-dry	201978	1	01/21/2015 23:32	JE
1,4-Dichlorobenzene	BRL	5.2		ug/Kg-dry	201978	1	01/21/2015 23:32	JE
2-Butanone	BRL	52		ug/Kg-dry	201978	1	01/21/2015 23:32	JE
2-Hexanone	BRL	10		ug/Kg-dry	201978	1	01/21/2015 23:32	JE
4-Methyl-2-pentanone	BRL	10		ug/Kg-dry	201978	1	01/21/2015 23:32	JE
Acetone	180	100		ug/Kg-dry	201978	1	01/21/2015 23:32	JE
Benzene	BRL	5.2		ug/Kg-dry	201978	1	01/21/2015 23:32	JE
Bromodichloromethane	BRL	5.2		ug/Kg-dry	201978	1	01/21/2015 23:32	JE
Bromoform	BRL	5.2		ug/Kg-dry	201978	1	01/21/2015 23:32	JE
Bromomethane	BRL	5.2		ug/Kg-dry	201978	1	01/21/2015 23:32	JE
Carbon disulfide	BRL	10		ug/Kg-dry	201978	1	01/21/2015 23:32	JE
Carbon tetrachloride	BRL	5.2		ug/Kg-dry	201978	1	01/21/2015 23:32	JE
Chlorobenzene	BRL	5.2		ug/Kg-dry	201978	1	01/21/2015 23:32	JE
Chloroethane	BRL	10		ug/Kg-dry	201978	1	01/21/2015 23:32	JE
Chloroform	BRL	5.2		ug/Kg-dry	201978	1	01/21/2015 23:32	JE
Chloromethane	BRL	10		ug/Kg-dry	201978	1	01/21/2015 23:32	JE
cis-1,2-Dichloroethene	BRL	5.2		ug/Kg-dry	201978	1	01/21/2015 23:32	JE
cis-1,3-Dichloropropene	BRL	5.2		ug/Kg-dry	201978	1	01/21/2015 23:32	JE
Cyclohexane	BRL	5.2		ug/Kg-dry	201978	1	01/21/2015 23:32	JE
Dibromochloromethane	BRL	5.2		ug/Kg-dry	201978	1	01/21/2015 23:32	JE
Dichlorodifluoromethane	BRL	10		ug/Kg-dry	201978	1	01/21/2015 23:32	JE
Ethylbenzene	BRL	5.2		ug/Kg-dry	201978	1	01/21/2015 23:32	JE
Freon-113	BRL	10		ug/Kg-dry	201978	1	01/21/2015 23:32	JE
Isopropylbenzene	BRL	5.2		ug/Kg-dry	201978	1	01/21/2015 23:32	JE
m,p-Xylene	BRL	5.2		ug/Kg-dry	201978	1	01/21/2015 23:32	JE
Methyl acetate	BRL	5.2		ug/Kg-dry	201978	1	01/21/2015 23:32	JE
Methyl tert-butyl ether	BRL	5.2		ug/Kg-dry	201978	1	01/21/2015 23:32	JE
Methylcyclohexane	BRL	5.2		ug/Kg-dry	201978	1	01/21/2015 23:32	JE
Methylene chloride	BRL	21		ug/Kg-dry	201978	1	01/21/2015 23:32	JE
o-Xylene	BRL	5.2		ug/Kg-dry	201978	1	01/21/2015 23:32	JE

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: SB-151 (0-1)
Project Name: Lafarge EP	Collection Date: 1/15/2015 10:45:00 AM
Lab ID: 1501B59-022	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B			(SW5035)					
Styrene	BRL	5.2		ug/Kg-dry	201978	1	01/21/2015 23:32	JE
Tetrachloroethene	BRL	5.2		ug/Kg-dry	201978	1	01/21/2015 23:32	JE
Toluene	BRL	5.2		ug/Kg-dry	201978	1	01/21/2015 23:32	JE
trans-1,2-Dichloroethene	BRL	5.2		ug/Kg-dry	201978	1	01/21/2015 23:32	JE
trans-1,3-Dichloropropene	BRL	5.2		ug/Kg-dry	201978	1	01/21/2015 23:32	JE
Trichloroethene	BRL	5.2		ug/Kg-dry	201978	1	01/21/2015 23:32	JE
Trichlorofluoromethane	BRL	5.2		ug/Kg-dry	201978	1	01/21/2015 23:32	JE
Vinyl chloride	BRL	10		ug/Kg-dry	201978	1	01/21/2015 23:32	JE
Surr: 4-Bromofluorobenzene	76.6	70-128		%REC	201978	1	01/21/2015 23:32	JE
Surr: Dibromofluoromethane	87.4	78.2-128		%REC	201978	1	01/21/2015 23:32	JE
Surr: Toluene-d8	79.3	76.5-116		%REC	201978	1	01/21/2015 23:32	JE
METALS, TOTAL SW6010C			(SW3050B)					
Lead	157	5.54		mg/Kg-dry	202038	1	01/22/2015 20:11	JL
PERCENT MOISTURE D2216								
Percent Moisture	12.3	0		wt%	R284187	1	01/22/2015 12:00	PF

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 4-Feb-15

Client: Arcadis	Client Sample ID: SB-151 (1-3)
Project Name: Lafarge EP	Collection Date: 1/15/2015 10:46:00 AM
Lab ID: 1501B59-023	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					(SW3050B)			
Lead	254	6.20		mg/Kg-dry	202038	1	01/22/2015 20:15	JL
PERCENT MOISTURE D2216								
Percent Moisture	21.5	0		wt%	R284187	1	01/22/2015 12:00	PF

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 4-Feb-15

Client: Arcadis	Client Sample ID: SB-151 (8-10)
Project Name: Lafarge EP	Collection Date: 1/15/2015 11:02:00 AM
Lab ID: 1501B59-024	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					(SW3050B)			
Lead	BRL	5.84		mg/Kg-dry	202052	1	01/23/2015 02:04	JL
PERCENT MOISTURE D2216								
Percent Moisture	16.6	0		wt%	R284187	1	01/22/2015 12:00	PF

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: SB-151 (14-16)
Project Name: Lafarge EP	Collection Date: 1/15/2015 11:07:00 AM
Lab ID: 1501B59-025	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	4.8		ug/Kg-dry	201978	1	01/21/2015 23:58	JE
1,1,2,2-Tetrachloroethane	BRL	4.8		ug/Kg-dry	201978	1	01/21/2015 23:58	JE
1,1,2-Trichloroethane	BRL	4.8		ug/Kg-dry	201978	1	01/21/2015 23:58	JE
1,1-Dichloroethane	BRL	4.8		ug/Kg-dry	201978	1	01/21/2015 23:58	JE
1,1-Dichloroethene	BRL	4.8		ug/Kg-dry	201978	1	01/21/2015 23:58	JE
1,2,4-Trichlorobenzene	BRL	4.8		ug/Kg-dry	201978	1	01/21/2015 23:58	JE
1,2-Dibromo-3-chloropropane	BRL	4.8		ug/Kg-dry	201978	1	01/21/2015 23:58	JE
1,2-Dibromoethane	BRL	4.8		ug/Kg-dry	201978	1	01/21/2015 23:58	JE
1,2-Dichlorobenzene	BRL	4.8		ug/Kg-dry	201978	1	01/21/2015 23:58	JE
1,2-Dichloroethane	BRL	4.8		ug/Kg-dry	201978	1	01/21/2015 23:58	JE
1,2-Dichloropropane	BRL	4.8		ug/Kg-dry	201978	1	01/21/2015 23:58	JE
1,3-Dichlorobenzene	BRL	4.8		ug/Kg-dry	201978	1	01/21/2015 23:58	JE
1,4-Dichlorobenzene	BRL	4.8		ug/Kg-dry	201978	1	01/21/2015 23:58	JE
2-Butanone	BRL	48		ug/Kg-dry	201978	1	01/21/2015 23:58	JE
2-Hexanone	BRL	9.7		ug/Kg-dry	201978	1	01/21/2015 23:58	JE
4-Methyl-2-pentanone	BRL	9.7		ug/Kg-dry	201978	1	01/21/2015 23:58	JE
Acetone	110	97		ug/Kg-dry	201978	1	01/21/2015 23:58	JE
Benzene	BRL	4.8		ug/Kg-dry	201978	1	01/21/2015 23:58	JE
Bromodichloromethane	BRL	4.8		ug/Kg-dry	201978	1	01/21/2015 23:58	JE
Bromoform	BRL	4.8		ug/Kg-dry	201978	1	01/21/2015 23:58	JE
Bromomethane	BRL	4.8		ug/Kg-dry	201978	1	01/21/2015 23:58	JE
Carbon disulfide	BRL	9.7		ug/Kg-dry	201978	1	01/21/2015 23:58	JE
Carbon tetrachloride	BRL	4.8		ug/Kg-dry	201978	1	01/21/2015 23:58	JE
Chlorobenzene	BRL	4.8		ug/Kg-dry	201978	1	01/21/2015 23:58	JE
Chloroethane	BRL	9.7		ug/Kg-dry	201978	1	01/21/2015 23:58	JE
Chloroform	BRL	4.8		ug/Kg-dry	201978	1	01/21/2015 23:58	JE
Chloromethane	BRL	9.7		ug/Kg-dry	201978	1	01/21/2015 23:58	JE
cis-1,2-Dichloroethene	BRL	4.8		ug/Kg-dry	201978	1	01/21/2015 23:58	JE
cis-1,3-Dichloropropene	BRL	4.8		ug/Kg-dry	201978	1	01/21/2015 23:58	JE
Cyclohexane	22000	2600		ug/Kg-dry	201833	500	01/23/2015 13:40	NH
Dibromochloromethane	BRL	4.8		ug/Kg-dry	201978	1	01/21/2015 23:58	JE
Dichlorodifluoromethane	BRL	9.7		ug/Kg-dry	201978	1	01/21/2015 23:58	JE
Ethylbenzene	110	4.8		ug/Kg-dry	201978	1	01/21/2015 23:58	JE
Freon-113	BRL	9.7		ug/Kg-dry	201978	1	01/21/2015 23:58	JE
Isopropylbenzene	46	4.8		ug/Kg-dry	201978	1	01/21/2015 23:58	JE
m,p-Xylene	860	260		ug/Kg-dry	201833	50	01/22/2015 17:55	GC
Methyl acetate	BRL	4.8		ug/Kg-dry	201978	1	01/21/2015 23:58	JE
Methyl tert-butyl ether	BRL	4.8		ug/Kg-dry	201978	1	01/21/2015 23:58	JE
Methylcyclohexane	35000	2600		ug/Kg-dry	201833	500	01/23/2015 13:40	NH
Methylene chloride	BRL	19		ug/Kg-dry	201978	1	01/21/2015 23:58	JE
o-Xylene	BRL	4.8		ug/Kg-dry	201978	1	01/21/2015 23:58	JE

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: SB-151 (14-16)
Project Name: Lafarge EP	Collection Date: 1/15/2015 11:07:00 AM
Lab ID: 1501B59-025	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B		(SW5035)						
Styrene	BRL	4.8		ug/Kg-dry	201978	1	01/21/2015 23:58	JE
Tetrachloroethene	BRL	4.8		ug/Kg-dry	201978	1	01/21/2015 23:58	JE
Toluene	BRL	4.8		ug/Kg-dry	201978	1	01/21/2015 23:58	JE
trans-1,2-Dichloroethene	BRL	4.8		ug/Kg-dry	201978	1	01/21/2015 23:58	JE
trans-1,3-Dichloropropene	BRL	4.8		ug/Kg-dry	201978	1	01/21/2015 23:58	JE
Trichloroethene	BRL	4.8		ug/Kg-dry	201978	1	01/21/2015 23:58	JE
Trichlorofluoromethane	BRL	4.8		ug/Kg-dry	201978	1	01/21/2015 23:58	JE
Vinyl chloride	BRL	9.7		ug/Kg-dry	201978	1	01/21/2015 23:58	JE
Surr: 4-Bromofluorobenzene	101	70-128		%REC	201833	500	01/23/2015 13:40	NH
Surr: 4-Bromofluorobenzene	102	70-128		%REC	201833	50	01/22/2015 17:55	GC
Surr: 4-Bromofluorobenzene	83.1	70-128		%REC	201978	1	01/21/2015 23:58	JE
Surr: Dibromofluoromethane	89	78.2-128		%REC	201833	500	01/23/2015 13:40	NH
Surr: Dibromofluoromethane	95.3	78.2-128		%REC	201833	50	01/22/2015 17:55	GC
Surr: Dibromofluoromethane	84.8	78.2-128		%REC	201978	1	01/21/2015 23:58	JE
Surr: Toluene-d8	97	76.5-116		%REC	201833	500	01/23/2015 13:40	NH
Surr: Toluene-d8	99.5	76.5-116		%REC	201833	50	01/22/2015 17:55	GC
Surr: Toluene-d8	112	76.5-116		%REC	201978	1	01/21/2015 23:58	JE
PERCENT MOISTURE D2216								
Percent Moisture	20.0	0		wt%	R284187	1	01/22/2015 12:00	PF

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: SB-151 (22-23)
Project Name: Lafarge EP	Collection Date: 1/15/2015 11:19:00 AM
Lab ID: 1501B59-026	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	5.6		ug/Kg-dry	201978	1	01/22/2015 16:06	MD
1,1,2,2-Tetrachloroethane	BRL	5.6		ug/Kg-dry	201978	1	01/22/2015 16:06	MD
1,1,2-Trichloroethane	BRL	5.6		ug/Kg-dry	201978	1	01/22/2015 16:06	MD
1,1-Dichloroethane	BRL	5.6		ug/Kg-dry	201978	1	01/22/2015 16:06	MD
1,1-Dichloroethene	BRL	5.6		ug/Kg-dry	201978	1	01/22/2015 16:06	MD
1,2,4-Trichlorobenzene	BRL	5.6		ug/Kg-dry	201978	1	01/22/2015 16:06	MD
1,2-Dibromo-3-chloropropane	BRL	5.6		ug/Kg-dry	201978	1	01/22/2015 16:06	MD
1,2-Dibromoethane	BRL	5.6		ug/Kg-dry	201978	1	01/22/2015 16:06	MD
1,2-Dichlorobenzene	BRL	5.6		ug/Kg-dry	201978	1	01/22/2015 16:06	MD
1,2-Dichloroethane	BRL	5.6		ug/Kg-dry	201978	1	01/22/2015 16:06	MD
1,2-Dichloropropane	BRL	5.6		ug/Kg-dry	201978	1	01/22/2015 16:06	MD
1,3-Dichlorobenzene	BRL	5.6		ug/Kg-dry	201978	1	01/22/2015 16:06	MD
1,4-Dichlorobenzene	BRL	5.6		ug/Kg-dry	201978	1	01/22/2015 16:06	MD
2-Butanone	BRL	56		ug/Kg-dry	201978	1	01/22/2015 16:06	MD
2-Hexanone	BRL	11		ug/Kg-dry	201978	1	01/22/2015 16:06	MD
4-Methyl-2-pentanone	BRL	11		ug/Kg-dry	201978	1	01/22/2015 16:06	MD
Acetone	BRL	110		ug/Kg-dry	201978	1	01/22/2015 16:06	MD
Benzene	BRL	5.6		ug/Kg-dry	201978	1	01/22/2015 16:06	MD
Bromodichloromethane	BRL	5.6		ug/Kg-dry	201978	1	01/22/2015 16:06	MD
Bromoform	BRL	5.6		ug/Kg-dry	201978	1	01/22/2015 16:06	MD
Bromomethane	BRL	5.6		ug/Kg-dry	201978	1	01/22/2015 16:06	MD
Carbon disulfide	BRL	11		ug/Kg-dry	201978	1	01/22/2015 16:06	MD
Carbon tetrachloride	BRL	5.6		ug/Kg-dry	201978	1	01/22/2015 16:06	MD
Chlorobenzene	BRL	5.6		ug/Kg-dry	201978	1	01/22/2015 16:06	MD
Chloroethane	BRL	11		ug/Kg-dry	201978	1	01/22/2015 16:06	MD
Chloroform	BRL	5.6		ug/Kg-dry	201978	1	01/22/2015 16:06	MD
Chloromethane	BRL	11		ug/Kg-dry	201978	1	01/22/2015 16:06	MD
cis-1,2-Dichloroethene	BRL	5.6		ug/Kg-dry	201978	1	01/22/2015 16:06	MD
cis-1,3-Dichloropropene	BRL	5.6		ug/Kg-dry	201978	1	01/22/2015 16:06	MD
Cyclohexane	BRL	5.6		ug/Kg-dry	201978	1	01/22/2015 16:06	MD
Dibromochloromethane	BRL	5.6		ug/Kg-dry	201978	1	01/22/2015 16:06	MD
Dichlorodifluoromethane	BRL	11		ug/Kg-dry	201978	1	01/22/2015 16:06	MD
Ethylbenzene	BRL	5.6		ug/Kg-dry	201978	1	01/22/2015 16:06	MD
Freon-113	BRL	11		ug/Kg-dry	201978	1	01/22/2015 16:06	MD
Isopropylbenzene	BRL	5.6		ug/Kg-dry	201978	1	01/22/2015 16:06	MD
m,p-Xylene	BRL	5.6		ug/Kg-dry	201978	1	01/22/2015 16:06	MD
Methyl acetate	BRL	5.6		ug/Kg-dry	201978	1	01/22/2015 16:06	MD
Methyl tert-butyl ether	BRL	5.6		ug/Kg-dry	201978	1	01/22/2015 16:06	MD
Methylcyclohexane	BRL	5.6		ug/Kg-dry	201978	1	01/22/2015 16:06	MD
Methylene chloride	BRL	23		ug/Kg-dry	201978	1	01/22/2015 16:06	MD
o-Xylene	BRL	5.6		ug/Kg-dry	201978	1	01/22/2015 16:06	MD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: SB-151 (22-23)
Project Name: Lafarge EP	Collection Date: 1/15/2015 11:19:00 AM
Lab ID: 1501B59-026	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B			(SW5035)					
Styrene	BRL	5.6		ug/Kg-dry	201978	1	01/22/2015 16:06	MD
Tetrachloroethene	BRL	5.6		ug/Kg-dry	201978	1	01/22/2015 16:06	MD
Toluene	BRL	5.6		ug/Kg-dry	201978	1	01/22/2015 16:06	MD
trans-1,2-Dichloroethene	BRL	5.6		ug/Kg-dry	201978	1	01/22/2015 16:06	MD
trans-1,3-Dichloropropene	BRL	5.6		ug/Kg-dry	201978	1	01/22/2015 16:06	MD
Trichloroethene	BRL	5.6		ug/Kg-dry	201978	1	01/22/2015 16:06	MD
Trichlorofluoromethane	BRL	5.6		ug/Kg-dry	201978	1	01/22/2015 16:06	MD
Vinyl chloride	BRL	11		ug/Kg-dry	201978	1	01/22/2015 16:06	MD
Surr: 4-Bromofluorobenzene	88	70-128		%REC	201978	1	01/22/2015 16:06	MD
Surr: Dibromofluoromethane	86.5	78.2-128		%REC	201978	1	01/22/2015 16:06	MD
Surr: Toluene-d8	86	76.5-116		%REC	201978	1	01/22/2015 16:06	MD
METALS, TOTAL SW6010C			(SW3050B)					
Lead	9.21	6.02		mg/Kg-dry	202052	1	01/23/2015 02:15	JL
PERCENT MOISTURE D2216								
Percent Moisture	17.7	0		wt%	R284187	1	01/22/2015 12:00	PF

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: SB-152 (0-1)
Project Name: Lafarge EP	Collection Date: 1/15/2015 11:25:00 AM
Lab ID: 1501B59-027	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	4.4		ug/Kg-dry	201978	1	01/22/2015 00:49	JE
1,1,2,2-Tetrachloroethane	BRL	4.4		ug/Kg-dry	201978	1	01/22/2015 00:49	JE
1,1,2-Trichloroethane	BRL	4.4		ug/Kg-dry	201978	1	01/22/2015 00:49	JE
1,1-Dichloroethane	BRL	4.4		ug/Kg-dry	201978	1	01/22/2015 00:49	JE
1,1-Dichloroethene	BRL	4.4		ug/Kg-dry	201978	1	01/22/2015 00:49	JE
1,2,4-Trichlorobenzene	BRL	4.4		ug/Kg-dry	201978	1	01/22/2015 00:49	JE
1,2-Dibromo-3-chloropropane	BRL	4.4		ug/Kg-dry	201978	1	01/22/2015 00:49	JE
1,2-Dibromoethane	BRL	4.4		ug/Kg-dry	201978	1	01/22/2015 00:49	JE
1,2-Dichlorobenzene	BRL	4.4		ug/Kg-dry	201978	1	01/22/2015 00:49	JE
1,2-Dichloroethane	BRL	4.4		ug/Kg-dry	201978	1	01/22/2015 00:49	JE
1,2-Dichloropropane	BRL	4.4		ug/Kg-dry	201978	1	01/22/2015 00:49	JE
1,3-Dichlorobenzene	BRL	4.4		ug/Kg-dry	201978	1	01/22/2015 00:49	JE
1,4-Dichlorobenzene	BRL	4.4		ug/Kg-dry	201978	1	01/22/2015 00:49	JE
2-Butanone	BRL	44		ug/Kg-dry	201978	1	01/22/2015 00:49	JE
2-Hexanone	BRL	8.7		ug/Kg-dry	201978	1	01/22/2015 00:49	JE
4-Methyl-2-pentanone	BRL	8.7		ug/Kg-dry	201978	1	01/22/2015 00:49	JE
Acetone	BRL	87		ug/Kg-dry	201978	1	01/22/2015 00:49	JE
Benzene	BRL	4.4		ug/Kg-dry	201978	1	01/22/2015 00:49	JE
Bromodichloromethane	BRL	4.4		ug/Kg-dry	201978	1	01/22/2015 00:49	JE
Bromoform	BRL	4.4		ug/Kg-dry	201978	1	01/22/2015 00:49	JE
Bromomethane	BRL	4.4		ug/Kg-dry	201978	1	01/22/2015 00:49	JE
Carbon disulfide	BRL	8.7		ug/Kg-dry	201978	1	01/22/2015 00:49	JE
Carbon tetrachloride	BRL	4.4		ug/Kg-dry	201978	1	01/22/2015 00:49	JE
Chlorobenzene	BRL	4.4		ug/Kg-dry	201978	1	01/22/2015 00:49	JE
Chloroethane	BRL	8.7		ug/Kg-dry	201978	1	01/22/2015 00:49	JE
Chloroform	BRL	4.4		ug/Kg-dry	201978	1	01/22/2015 00:49	JE
Chloromethane	BRL	8.7		ug/Kg-dry	201978	1	01/22/2015 00:49	JE
cis-1,2-Dichloroethene	BRL	4.4		ug/Kg-dry	201978	1	01/22/2015 00:49	JE
cis-1,3-Dichloropropene	BRL	4.4		ug/Kg-dry	201978	1	01/22/2015 00:49	JE
Cyclohexane	100	4.4		ug/Kg-dry	201978	1	01/22/2015 00:49	JE
Dibromochloromethane	BRL	4.4		ug/Kg-dry	201978	1	01/22/2015 00:49	JE
Dichlorodifluoromethane	BRL	8.7		ug/Kg-dry	201978	1	01/22/2015 00:49	JE
Ethylbenzene	BRL	4.4		ug/Kg-dry	201978	1	01/22/2015 00:49	JE
Freon-113	BRL	8.7		ug/Kg-dry	201978	1	01/22/2015 00:49	JE
Isopropylbenzene	BRL	4.4		ug/Kg-dry	201978	1	01/22/2015 00:49	JE
m,p-Xylene	BRL	4.4		ug/Kg-dry	201978	1	01/22/2015 00:49	JE
Methyl acetate	BRL	4.4		ug/Kg-dry	201978	1	01/22/2015 00:49	JE
Methyl tert-butyl ether	BRL	4.4		ug/Kg-dry	201978	1	01/22/2015 00:49	JE
Methylcyclohexane	93	4.4		ug/Kg-dry	201978	1	01/22/2015 00:49	JE
Methylene chloride	BRL	17		ug/Kg-dry	201978	1	01/22/2015 00:49	JE
o-Xylene	BRL	4.4		ug/Kg-dry	201978	1	01/22/2015 00:49	JE

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: SB-152 (0-1)
Project Name: Lafarge EP	Collection Date: 1/15/2015 11:25:00 AM
Lab ID: 1501B59-027	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5035)			
Styrene	BRL	4.4		ug/Kg-dry	201978	1	01/22/2015 00:49	JE
Tetrachloroethene	BRL	4.4		ug/Kg-dry	201978	1	01/22/2015 00:49	JE
Toluene	BRL	4.4		ug/Kg-dry	201978	1	01/22/2015 00:49	JE
trans-1,2-Dichloroethene	BRL	4.4		ug/Kg-dry	201978	1	01/22/2015 00:49	JE
trans-1,3-Dichloropropene	BRL	4.4		ug/Kg-dry	201978	1	01/22/2015 00:49	JE
Trichloroethene	BRL	4.4		ug/Kg-dry	201978	1	01/22/2015 00:49	JE
Trichlorofluoromethane	BRL	4.4		ug/Kg-dry	201978	1	01/22/2015 00:49	JE
Vinyl chloride	BRL	8.7		ug/Kg-dry	201978	1	01/22/2015 00:49	JE
Surr: 4-Bromofluorobenzene	74.9	70-128		%REC	201978	1	01/22/2015 00:49	JE
Surr: Dibromofluoromethane	88.4	78.2-128		%REC	201978	1	01/22/2015 00:49	JE
Surr: Toluene-d8	85.9	76.5-116		%REC	201978	1	01/22/2015 00:49	JE
METALS, TOTAL SW6010C					(SW3050B)			
Lead	64.0	5.74		mg/Kg-dry	202052	1	01/23/2015 02:19	JL
PERCENT MOISTURE D2216								
Percent Moisture	15.3	0		wt%	R284187	1	01/22/2015 12:00	PF

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 4-Feb-15

Client: Arcadis	Client Sample ID: SB-152 (1-3)
Project Name: Lafarge EP	Collection Date: 1/15/2015 11:26:00 AM
Lab ID: 1501B59-028	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					(SW3050B)			
Lead	13.9	6.14		mg/Kg-dry	202052	1	01/23/2015 02:23	JL
PERCENT MOISTURE D2216								
Percent Moisture	20.2	0		wt%	R284187	1	01/22/2015 12:00	PF

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 4-Feb-15

Client: Arcadis	Client Sample ID: SB-152 (8-10)
Project Name: Lafarge EP	Collection Date: 1/15/2015 12:38:00 PM
Lab ID: 1501B59-029	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					(SW3050B)			
Lead	12.3	5.66		mg/Kg-dry	202052	1	01/23/2015 02:27	JL
PERCENT MOISTURE D2216								
Percent Moisture	17.1	0		wt%	R284187	1	01/22/2015 12:00	PF

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: SB-152 (18-20)
Project Name: Lafarge EP	Collection Date: 1/15/2015 12:47:00 PM
Lab ID: 1501B59-030	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	5.3		ug/Kg-dry	201978	1	01/22/2015 01:14	JE
1,1,2,2-Tetrachloroethane	BRL	5.3		ug/Kg-dry	201978	1	01/22/2015 01:14	JE
1,1,2-Trichloroethane	BRL	5.3		ug/Kg-dry	201978	1	01/22/2015 01:14	JE
1,1-Dichloroethane	BRL	5.3		ug/Kg-dry	201978	1	01/22/2015 01:14	JE
1,1-Dichloroethene	BRL	5.3		ug/Kg-dry	201978	1	01/22/2015 01:14	JE
1,2,4-Trichlorobenzene	BRL	5.3		ug/Kg-dry	201978	1	01/22/2015 01:14	JE
1,2-Dibromo-3-chloropropane	BRL	5.3		ug/Kg-dry	201978	1	01/22/2015 01:14	JE
1,2-Dibromoethane	BRL	5.3		ug/Kg-dry	201978	1	01/22/2015 01:14	JE
1,2-Dichlorobenzene	BRL	5.3		ug/Kg-dry	201978	1	01/22/2015 01:14	JE
1,2-Dichloroethane	BRL	5.3		ug/Kg-dry	201978	1	01/22/2015 01:14	JE
1,2-Dichloropropane	BRL	5.3		ug/Kg-dry	201978	1	01/22/2015 01:14	JE
1,3-Dichlorobenzene	BRL	5.3		ug/Kg-dry	201978	1	01/22/2015 01:14	JE
1,4-Dichlorobenzene	BRL	5.3		ug/Kg-dry	201978	1	01/22/2015 01:14	JE
2-Butanone	BRL	53		ug/Kg-dry	201978	1	01/22/2015 01:14	JE
2-Hexanone	BRL	11		ug/Kg-dry	201978	1	01/22/2015 01:14	JE
4-Methyl-2-pentanone	BRL	11		ug/Kg-dry	201978	1	01/22/2015 01:14	JE
Acetone	BRL	110		ug/Kg-dry	201978	1	01/22/2015 01:14	JE
Benzene	BRL	5.3		ug/Kg-dry	201978	1	01/22/2015 01:14	JE
Bromodichloromethane	BRL	5.3		ug/Kg-dry	201978	1	01/22/2015 01:14	JE
Bromoform	BRL	5.3		ug/Kg-dry	201978	1	01/22/2015 01:14	JE
Bromomethane	BRL	5.3		ug/Kg-dry	201978	1	01/22/2015 01:14	JE
Carbon disulfide	BRL	11		ug/Kg-dry	201978	1	01/22/2015 01:14	JE
Carbon tetrachloride	BRL	5.3		ug/Kg-dry	201978	1	01/22/2015 01:14	JE
Chlorobenzene	BRL	5.3		ug/Kg-dry	201978	1	01/22/2015 01:14	JE
Chloroethane	BRL	11		ug/Kg-dry	201978	1	01/22/2015 01:14	JE
Chloroform	BRL	5.3		ug/Kg-dry	201978	1	01/22/2015 01:14	JE
Chloromethane	BRL	11		ug/Kg-dry	201978	1	01/22/2015 01:14	JE
cis-1,2-Dichloroethene	BRL	5.3		ug/Kg-dry	201978	1	01/22/2015 01:14	JE
cis-1,3-Dichloropropene	BRL	5.3		ug/Kg-dry	201978	1	01/22/2015 01:14	JE
Cyclohexane	6900	600		ug/Kg-dry	201833	100	01/22/2015 17:01	GC
Dibromochloromethane	BRL	5.3		ug/Kg-dry	201978	1	01/22/2015 01:14	JE
Dichlorodifluoromethane	BRL	11		ug/Kg-dry	201978	1	01/22/2015 01:14	JE
Ethylbenzene	43	5.3		ug/Kg-dry	201978	1	01/22/2015 01:14	JE
Freon-113	BRL	11		ug/Kg-dry	201978	1	01/22/2015 01:14	JE
Isopropylbenzene	180	5.3		ug/Kg-dry	201978	1	01/22/2015 01:14	JE
m,p-Xylene	140	5.3		ug/Kg-dry	201978	1	01/22/2015 01:14	JE
Methyl acetate	BRL	5.3		ug/Kg-dry	201978	1	01/22/2015 01:14	JE
Methyl tert-butyl ether	BRL	5.3		ug/Kg-dry	201978	1	01/22/2015 01:14	JE
Methylcyclohexane	17000	600		ug/Kg-dry	201833	100	01/22/2015 17:01	GC
Methylene chloride	BRL	21		ug/Kg-dry	201978	1	01/22/2015 01:14	JE
o-Xylene	15	5.3		ug/Kg-dry	201978	1	01/22/2015 01:14	JE

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: SB-152 (18-20)
Project Name: Lafarge EP	Collection Date: 1/15/2015 12:47:00 PM
Lab ID: 1501B59-030	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
Styrene	BRL	5.3		ug/Kg-dry	201978	1	01/22/2015 01:14	JE
Tetrachloroethene	BRL	5.3		ug/Kg-dry	201978	1	01/22/2015 01:14	JE
Toluene	BRL	5.3		ug/Kg-dry	201978	1	01/22/2015 01:14	JE
trans-1,2-Dichloroethene	BRL	5.3		ug/Kg-dry	201978	1	01/22/2015 01:14	JE
trans-1,3-Dichloropropene	BRL	5.3		ug/Kg-dry	201978	1	01/22/2015 01:14	JE
Trichloroethene	BRL	5.3		ug/Kg-dry	201978	1	01/22/2015 01:14	JE
Trichlorofluoromethane	BRL	5.3		ug/Kg-dry	201978	1	01/22/2015 01:14	JE
Vinyl chloride	BRL	11		ug/Kg-dry	201978	1	01/22/2015 01:14	JE
Surr: 4-Bromofluorobenzene	197	70-128	S	%REC	201978	1	01/22/2015 01:14	JE
Surr: 4-Bromofluorobenzene	105	70-128		%REC	201833	100	01/22/2015 17:01	GC
Surr: Dibromofluoromethane	77.8	78.2-128	S	%REC	201978	1	01/22/2015 01:14	JE
Surr: Dibromofluoromethane	100	78.2-128		%REC	201833	100	01/22/2015 17:01	GC
Surr: Toluene-d8	94	76.5-116		%REC	201978	1	01/22/2015 01:14	JE
Surr: Toluene-d8	99.2	76.5-116		%REC	201833	100	01/22/2015 17:01	GC
PERCENT MOISTURE D2216								
Percent Moisture	18.8	0		wt%	R284187	1	01/22/2015 12:00	PF

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: SB-152 (22-24)
Project Name: Lafarge EP	Collection Date: 1/15/2015 12:50:00 PM
Lab ID: 1501B59-031	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	4.5		ug/Kg-dry	201978	1	01/22/2015 01:39	JE
1,1,2,2-Tetrachloroethane	BRL	4.5		ug/Kg-dry	201978	1	01/22/2015 01:39	JE
1,1,2-Trichloroethane	BRL	4.5		ug/Kg-dry	201978	1	01/22/2015 01:39	JE
1,1-Dichloroethane	BRL	4.5		ug/Kg-dry	201978	1	01/22/2015 01:39	JE
1,1-Dichloroethene	BRL	4.5		ug/Kg-dry	201978	1	01/22/2015 01:39	JE
1,2,4-Trichlorobenzene	BRL	4.5		ug/Kg-dry	201978	1	01/22/2015 01:39	JE
1,2-Dibromo-3-chloropropane	BRL	4.5		ug/Kg-dry	201978	1	01/22/2015 01:39	JE
1,2-Dibromoethane	BRL	4.5		ug/Kg-dry	201978	1	01/22/2015 01:39	JE
1,2-Dichlorobenzene	BRL	4.5		ug/Kg-dry	201978	1	01/22/2015 01:39	JE
1,2-Dichloroethane	BRL	4.5		ug/Kg-dry	201978	1	01/22/2015 01:39	JE
1,2-Dichloropropane	BRL	4.5		ug/Kg-dry	201978	1	01/22/2015 01:39	JE
1,3-Dichlorobenzene	BRL	4.5		ug/Kg-dry	201978	1	01/22/2015 01:39	JE
1,4-Dichlorobenzene	BRL	4.5		ug/Kg-dry	201978	1	01/22/2015 01:39	JE
2-Butanone	BRL	45		ug/Kg-dry	201978	1	01/22/2015 01:39	JE
2-Hexanone	BRL	8.9		ug/Kg-dry	201978	1	01/22/2015 01:39	JE
4-Methyl-2-pentanone	BRL	8.9		ug/Kg-dry	201978	1	01/22/2015 01:39	JE
Acetone	BRL	89		ug/Kg-dry	201978	1	01/22/2015 01:39	JE
Benzene	BRL	4.5		ug/Kg-dry	201978	1	01/22/2015 01:39	JE
Bromodichloromethane	BRL	4.5		ug/Kg-dry	201978	1	01/22/2015 01:39	JE
Bromoform	BRL	4.5		ug/Kg-dry	201978	1	01/22/2015 01:39	JE
Bromomethane	BRL	4.5		ug/Kg-dry	201978	1	01/22/2015 01:39	JE
Carbon disulfide	BRL	8.9		ug/Kg-dry	201978	1	01/22/2015 01:39	JE
Carbon tetrachloride	BRL	4.5		ug/Kg-dry	201978	1	01/22/2015 01:39	JE
Chlorobenzene	BRL	4.5		ug/Kg-dry	201978	1	01/22/2015 01:39	JE
Chloroethane	BRL	8.9		ug/Kg-dry	201978	1	01/22/2015 01:39	JE
Chloroform	BRL	4.5		ug/Kg-dry	201978	1	01/22/2015 01:39	JE
Chloromethane	BRL	8.9		ug/Kg-dry	201978	1	01/22/2015 01:39	JE
cis-1,2-Dichloroethene	BRL	4.5		ug/Kg-dry	201978	1	01/22/2015 01:39	JE
cis-1,3-Dichloropropene	BRL	4.5		ug/Kg-dry	201978	1	01/22/2015 01:39	JE
Cyclohexane	BRL	4.5		ug/Kg-dry	201978	1	01/22/2015 01:39	JE
Dibromochloromethane	BRL	4.5		ug/Kg-dry	201978	1	01/22/2015 01:39	JE
Dichlorodifluoromethane	BRL	8.9		ug/Kg-dry	201978	1	01/22/2015 01:39	JE
Ethylbenzene	BRL	4.5		ug/Kg-dry	201978	1	01/22/2015 01:39	JE
Freon-113	BRL	8.9		ug/Kg-dry	201978	1	01/22/2015 01:39	JE
Isopropylbenzene	BRL	4.5		ug/Kg-dry	201978	1	01/22/2015 01:39	JE
m,p-Xylene	BRL	4.5		ug/Kg-dry	201978	1	01/22/2015 01:39	JE
Methyl acetate	BRL	4.5		ug/Kg-dry	201978	1	01/22/2015 01:39	JE
Methyl tert-butyl ether	BRL	4.5		ug/Kg-dry	201978	1	01/22/2015 01:39	JE
Methylcyclohexane	BRL	4.5		ug/Kg-dry	201978	1	01/22/2015 01:39	JE
Methylene chloride	BRL	18		ug/Kg-dry	201978	1	01/22/2015 01:39	JE
o-Xylene	BRL	4.5		ug/Kg-dry	201978	1	01/22/2015 01:39	JE

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: SB-152 (22-24)
Project Name: Lafarge EP	Collection Date: 1/15/2015 12:50:00 PM
Lab ID: 1501B59-031	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5035)				
Styrene	BRL	4.5		ug/Kg-dry	201978	1	01/22/2015 01:39	JE
Tetrachloroethene	BRL	4.5		ug/Kg-dry	201978	1	01/22/2015 01:39	JE
Toluene	BRL	4.5		ug/Kg-dry	201978	1	01/22/2015 01:39	JE
trans-1,2-Dichloroethene	BRL	4.5		ug/Kg-dry	201978	1	01/22/2015 01:39	JE
trans-1,3-Dichloropropene	BRL	4.5		ug/Kg-dry	201978	1	01/22/2015 01:39	JE
Trichloroethene	BRL	4.5		ug/Kg-dry	201978	1	01/22/2015 01:39	JE
Trichlorofluoromethane	BRL	4.5		ug/Kg-dry	201978	1	01/22/2015 01:39	JE
Vinyl chloride	BRL	8.9		ug/Kg-dry	201978	1	01/22/2015 01:39	JE
Surr: 4-Bromofluorobenzene	95.1	70-128		%REC	201978	1	01/22/2015 01:39	JE
Surr: Dibromofluoromethane	88.5	78.2-128		%REC	201978	1	01/22/2015 01:39	JE
Surr: Toluene-d8	85.4	76.5-116		%REC	201978	1	01/22/2015 01:39	JE
METALS, TOTAL SW6010C				(SW3050B)				
Lead	8.14	5.90		mg/Kg-dry	202052	1	01/23/2015 14:55	JL
PERCENT MOISTURE D2216								
Percent Moisture	16.5	0		wt%	R284187	1	01/22/2015 12:00	PF

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 4-Feb-15

Client: Arcadis	Client Sample ID: SB-153 (8-10)
Project Name: Lafarge EP	Collection Date: 1/15/2015 1:24:00 PM
Lab ID: 1501B59-032	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					(SW3050B)			
Lead	BRL	6.11		mg/Kg-dry	202052	1	01/23/2015 14:59	JL
PERCENT MOISTURE D2216								
Percent Moisture	19.0	0		wt%	R284187	1	01/22/2015 12:00	PF

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: SB-153 (20-22)
Project Name: Lafarge EP	Collection Date: 1/15/2015 1:35:00 PM
Lab ID: 1501B59-033	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	7.5		ug/Kg-dry	201978	1	01/22/2015 02:05	JE
1,1,2,2-Tetrachloroethane	BRL	7.5		ug/Kg-dry	201978	1	01/22/2015 02:05	JE
1,1,2-Trichloroethane	BRL	7.5		ug/Kg-dry	201978	1	01/22/2015 02:05	JE
1,1-Dichloroethane	BRL	7.5		ug/Kg-dry	201978	1	01/22/2015 02:05	JE
1,1-Dichloroethene	BRL	7.5		ug/Kg-dry	201978	1	01/22/2015 02:05	JE
1,2,4-Trichlorobenzene	BRL	7.5		ug/Kg-dry	201978	1	01/22/2015 02:05	JE
1,2-Dibromo-3-chloropropane	BRL	7.5		ug/Kg-dry	201978	1	01/22/2015 02:05	JE
1,2-Dibromoethane	BRL	7.5		ug/Kg-dry	201978	1	01/22/2015 02:05	JE
1,2-Dichlorobenzene	BRL	7.5		ug/Kg-dry	201978	1	01/22/2015 02:05	JE
1,2-Dichloroethane	BRL	7.5		ug/Kg-dry	201978	1	01/22/2015 02:05	JE
1,2-Dichloropropane	BRL	7.5		ug/Kg-dry	201978	1	01/22/2015 02:05	JE
1,3-Dichlorobenzene	BRL	7.5		ug/Kg-dry	201978	1	01/22/2015 02:05	JE
1,4-Dichlorobenzene	BRL	7.5		ug/Kg-dry	201978	1	01/22/2015 02:05	JE
2-Butanone	BRL	7.5		ug/Kg-dry	201978	1	01/22/2015 02:05	JE
2-Hexanone	BRL	15		ug/Kg-dry	201978	1	01/22/2015 02:05	JE
4-Methyl-2-pentanone	BRL	15		ug/Kg-dry	201978	1	01/22/2015 02:05	JE
Acetone	BRL	150		ug/Kg-dry	201978	1	01/22/2015 02:05	JE
Benzene	BRL	7.5		ug/Kg-dry	201978	1	01/22/2015 02:05	JE
Bromodichloromethane	BRL	7.5		ug/Kg-dry	201978	1	01/22/2015 02:05	JE
Bromoform	BRL	7.5		ug/Kg-dry	201978	1	01/22/2015 02:05	JE
Bromomethane	BRL	7.5		ug/Kg-dry	201978	1	01/22/2015 02:05	JE
Carbon disulfide	BRL	15		ug/Kg-dry	201978	1	01/22/2015 02:05	JE
Carbon tetrachloride	BRL	7.5		ug/Kg-dry	201978	1	01/22/2015 02:05	JE
Chlorobenzene	BRL	7.5		ug/Kg-dry	201978	1	01/22/2015 02:05	JE
Chloroethane	BRL	15		ug/Kg-dry	201978	1	01/22/2015 02:05	JE
Chloroform	BRL	7.5		ug/Kg-dry	201978	1	01/22/2015 02:05	JE
Chloromethane	BRL	15		ug/Kg-dry	201978	1	01/22/2015 02:05	JE
cis-1,2-Dichloroethene	BRL	7.5		ug/Kg-dry	201978	1	01/22/2015 02:05	JE
cis-1,3-Dichloropropene	BRL	7.5		ug/Kg-dry	201978	1	01/22/2015 02:05	JE
Cyclohexane	BRL	7.5		ug/Kg-dry	201978	1	01/22/2015 02:05	JE
Dibromochloromethane	BRL	7.5		ug/Kg-dry	201978	1	01/22/2015 02:05	JE
Dichlorodifluoromethane	BRL	15		ug/Kg-dry	201978	1	01/22/2015 02:05	JE
Ethylbenzene	BRL	7.5		ug/Kg-dry	201978	1	01/22/2015 02:05	JE
Freon-113	BRL	15		ug/Kg-dry	201978	1	01/22/2015 02:05	JE
Isopropylbenzene	BRL	7.5		ug/Kg-dry	201978	1	01/22/2015 02:05	JE
m,p-Xylene	BRL	7.5		ug/Kg-dry	201978	1	01/22/2015 02:05	JE
Methyl acetate	BRL	7.5		ug/Kg-dry	201978	1	01/22/2015 02:05	JE
Methyl tert-butyl ether	BRL	7.5		ug/Kg-dry	201978	1	01/22/2015 02:05	JE
Methylcyclohexane	BRL	7.5		ug/Kg-dry	201978	1	01/22/2015 02:05	JE
Methylene chloride	BRL	30		ug/Kg-dry	201978	1	01/22/2015 02:05	JE
o-Xylene	BRL	7.5		ug/Kg-dry	201978	1	01/22/2015 02:05	JE

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: SB-153 (20-22)
Project Name: Lafarge EP	Collection Date: 1/15/2015 1:35:00 PM
Lab ID: 1501B59-033	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5035)				
Styrene	BRL	7.5		ug/Kg-dry	201978	1	01/22/2015 02:05	JE
Tetrachloroethene	BRL	7.5		ug/Kg-dry	201978	1	01/22/2015 02:05	JE
Toluene	BRL	7.5		ug/Kg-dry	201978	1	01/22/2015 02:05	JE
trans-1,2-Dichloroethene	BRL	7.5		ug/Kg-dry	201978	1	01/22/2015 02:05	JE
trans-1,3-Dichloropropene	BRL	7.5		ug/Kg-dry	201978	1	01/22/2015 02:05	JE
Trichloroethene	BRL	7.5		ug/Kg-dry	201978	1	01/22/2015 02:05	JE
Trichlorofluoromethane	BRL	7.5		ug/Kg-dry	201978	1	01/22/2015 02:05	JE
Vinyl chloride	BRL	15		ug/Kg-dry	201978	1	01/22/2015 02:05	JE
Surr: 4-Bromofluorobenzene	88.3	70-128		%REC	201978	1	01/22/2015 02:05	JE
Surr: Dibromofluoromethane	87.1	78.2-128		%REC	201978	1	01/22/2015 02:05	JE
Surr: Toluene-d8	84.7	76.5-116		%REC	201978	1	01/22/2015 02:05	JE
PERCENT MOISTURE D2216								
Percent Moisture	33.9	0		wt%	R284187	1	01/22/2015 12:00	PF

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: SB-153 (22-24)
Project Name: Lafarge EP	Collection Date: 1/15/2015 1:37:00 PM
Lab ID: 1501B59-034	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	4.2		ug/Kg-dry	201978	1	01/22/2015 02:31	JE
1,1,2,2-Tetrachloroethane	BRL	4.2		ug/Kg-dry	201978	1	01/22/2015 02:31	JE
1,1,2-Trichloroethane	BRL	4.2		ug/Kg-dry	201978	1	01/22/2015 02:31	JE
1,1-Dichloroethane	BRL	4.2		ug/Kg-dry	201978	1	01/22/2015 02:31	JE
1,1-Dichloroethene	BRL	4.2		ug/Kg-dry	201978	1	01/22/2015 02:31	JE
1,2,4-Trichlorobenzene	BRL	4.2		ug/Kg-dry	201978	1	01/22/2015 02:31	JE
1,2-Dibromo-3-chloropropane	BRL	4.2		ug/Kg-dry	201978	1	01/22/2015 02:31	JE
1,2-Dibromoethane	BRL	4.2		ug/Kg-dry	201978	1	01/22/2015 02:31	JE
1,2-Dichlorobenzene	BRL	4.2		ug/Kg-dry	201978	1	01/22/2015 02:31	JE
1,2-Dichloroethane	BRL	4.2		ug/Kg-dry	201978	1	01/22/2015 02:31	JE
1,2-Dichloropropane	BRL	4.2		ug/Kg-dry	201978	1	01/22/2015 02:31	JE
1,3-Dichlorobenzene	BRL	4.2		ug/Kg-dry	201978	1	01/22/2015 02:31	JE
1,4-Dichlorobenzene	BRL	4.2		ug/Kg-dry	201978	1	01/22/2015 02:31	JE
2-Butanone	BRL	4.2		ug/Kg-dry	201978	1	01/22/2015 02:31	JE
2-Hexanone	BRL	8.4		ug/Kg-dry	201978	1	01/22/2015 02:31	JE
4-Methyl-2-pentanone	BRL	8.4		ug/Kg-dry	201978	1	01/22/2015 02:31	JE
Acetone	BRL	8.4		ug/Kg-dry	201978	1	01/22/2015 02:31	JE
Benzene	BRL	4.2		ug/Kg-dry	201978	1	01/22/2015 02:31	JE
Bromodichloromethane	BRL	4.2		ug/Kg-dry	201978	1	01/22/2015 02:31	JE
Bromoform	BRL	4.2		ug/Kg-dry	201978	1	01/22/2015 02:31	JE
Bromomethane	BRL	4.2		ug/Kg-dry	201978	1	01/22/2015 02:31	JE
Carbon disulfide	BRL	8.4		ug/Kg-dry	201978	1	01/22/2015 02:31	JE
Carbon tetrachloride	BRL	4.2		ug/Kg-dry	201978	1	01/22/2015 02:31	JE
Chlorobenzene	BRL	4.2		ug/Kg-dry	201978	1	01/22/2015 02:31	JE
Chloroethane	BRL	8.4		ug/Kg-dry	201978	1	01/22/2015 02:31	JE
Chloroform	BRL	4.2		ug/Kg-dry	201978	1	01/22/2015 02:31	JE
Chloromethane	BRL	8.4		ug/Kg-dry	201978	1	01/22/2015 02:31	JE
cis-1,2-Dichloroethene	BRL	4.2		ug/Kg-dry	201978	1	01/22/2015 02:31	JE
cis-1,3-Dichloropropene	BRL	4.2		ug/Kg-dry	201978	1	01/22/2015 02:31	JE
Cyclohexane	BRL	4.2		ug/Kg-dry	201978	1	01/22/2015 02:31	JE
Dibromochloromethane	BRL	4.2		ug/Kg-dry	201978	1	01/22/2015 02:31	JE
Dichlorodifluoromethane	BRL	8.4		ug/Kg-dry	201978	1	01/22/2015 02:31	JE
Ethylbenzene	BRL	4.2		ug/Kg-dry	201978	1	01/22/2015 02:31	JE
Freon-113	BRL	8.4		ug/Kg-dry	201978	1	01/22/2015 02:31	JE
Isopropylbenzene	BRL	4.2		ug/Kg-dry	201978	1	01/22/2015 02:31	JE
m,p-Xylene	BRL	4.2		ug/Kg-dry	201978	1	01/22/2015 02:31	JE
Methyl acetate	BRL	4.2		ug/Kg-dry	201978	1	01/22/2015 02:31	JE
Methyl tert-butyl ether	BRL	4.2		ug/Kg-dry	201978	1	01/22/2015 02:31	JE
Methylcyclohexane	BRL	4.2		ug/Kg-dry	201978	1	01/22/2015 02:31	JE
Methylene chloride	BRL	17		ug/Kg-dry	201978	1	01/22/2015 02:31	JE
o-Xylene	BRL	4.2		ug/Kg-dry	201978	1	01/22/2015 02:31	JE

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: SB-153 (22-24)
Project Name: Lafarge EP	Collection Date: 1/15/2015 1:37:00 PM
Lab ID: 1501B59-034	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B			(SW5035)					
Styrene	BRL	4.2		ug/Kg-dry	201978	1	01/22/2015 02:31	JE
Tetrachloroethene	BRL	4.2		ug/Kg-dry	201978	1	01/22/2015 02:31	JE
Toluene	BRL	4.2		ug/Kg-dry	201978	1	01/22/2015 02:31	JE
trans-1,2-Dichloroethene	BRL	4.2		ug/Kg-dry	201978	1	01/22/2015 02:31	JE
trans-1,3-Dichloropropene	BRL	4.2		ug/Kg-dry	201978	1	01/22/2015 02:31	JE
Trichloroethene	BRL	4.2		ug/Kg-dry	201978	1	01/22/2015 02:31	JE
Trichlorofluoromethane	BRL	4.2		ug/Kg-dry	201978	1	01/22/2015 02:31	JE
Vinyl chloride	BRL	8.4		ug/Kg-dry	201978	1	01/22/2015 02:31	JE
Surr: 4-Bromofluorobenzene	87.9	70-128		%REC	201978	1	01/22/2015 02:31	JE
Surr: Dibromofluoromethane	91.7	78.2-128		%REC	201978	1	01/22/2015 02:31	JE
Surr: Toluene-d8	86.9	76.5-116		%REC	201978	1	01/22/2015 02:31	JE
METALS, TOTAL SW6010C			(SW3050B)					
Lead	5.64	5.56		mg/Kg-dry	202052	1	01/23/2015 15:03	JL
PERCENT MOISTURE D2216								
Percent Moisture	10.8	0		wt%	R284187	1	01/22/2015 12:00	PF

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 4-Feb-15

Client: Arcadis	Client Sample ID: SB-149 (1-3)
Project Name: Lafarge EP	Collection Date: 1/15/2015 8:57:00 AM
Lab ID: 1501B59-035	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					(SW3050B)			
Lead	21.4	6.16		mg/Kg-dry	202052	1	01/23/2015 18:35	JL
PERCENT MOISTURE D2216								
Percent Moisture	19.1	0		wt%	R284187	1	01/22/2015 12:00	PF

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 4-Feb-15

Client: Arcadis	Client Sample ID: SB-149 (8-10)
Project Name: Lafarge EP	Collection Date: 1/15/2015 9:01:00 AM
Lab ID: 1501B59-036	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					(SW3050B)			
Lead	23.6	5.75		mg/Kg-dry	202052	1	01/23/2015 18:38	JL
PERCENT MOISTURE D2216								
Percent Moisture	15.1	0		wt%	R284187	1	01/22/2015 12:00	PF

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: SB-149 (22-24)
Project Name: Lafarge EP	Collection Date: 1/15/2015 9:14:00 AM
Lab ID: 1501B59-037	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	5.5		ug/Kg-dry	201978	1	01/22/2015 02:56	JE
1,1,2,2-Tetrachloroethane	BRL	5.5		ug/Kg-dry	201978	1	01/22/2015 02:56	JE
1,1,2-Trichloroethane	BRL	5.5		ug/Kg-dry	201978	1	01/22/2015 02:56	JE
1,1-Dichloroethane	BRL	5.5		ug/Kg-dry	201978	1	01/22/2015 02:56	JE
1,1-Dichloroethene	BRL	5.5		ug/Kg-dry	201978	1	01/22/2015 02:56	JE
1,2,4-Trichlorobenzene	BRL	5.5		ug/Kg-dry	201978	1	01/22/2015 02:56	JE
1,2-Dibromo-3-chloropropane	BRL	5.5		ug/Kg-dry	201978	1	01/22/2015 02:56	JE
1,2-Dibromoethane	BRL	5.5		ug/Kg-dry	201978	1	01/22/2015 02:56	JE
1,2-Dichlorobenzene	BRL	5.5		ug/Kg-dry	201978	1	01/22/2015 02:56	JE
1,2-Dichloroethane	BRL	5.5		ug/Kg-dry	201978	1	01/22/2015 02:56	JE
1,2-Dichloropropane	BRL	5.5		ug/Kg-dry	201978	1	01/22/2015 02:56	JE
1,3-Dichlorobenzene	BRL	5.5		ug/Kg-dry	201978	1	01/22/2015 02:56	JE
1,4-Dichlorobenzene	BRL	5.5		ug/Kg-dry	201978	1	01/22/2015 02:56	JE
2-Butanone	BRL	55		ug/Kg-dry	201978	1	01/22/2015 02:56	JE
2-Hexanone	BRL	11		ug/Kg-dry	201978	1	01/22/2015 02:56	JE
4-Methyl-2-pentanone	BRL	11		ug/Kg-dry	201978	1	01/22/2015 02:56	JE
Acetone	BRL	110		ug/Kg-dry	201978	1	01/22/2015 02:56	JE
Benzene	BRL	5.5		ug/Kg-dry	201978	1	01/22/2015 02:56	JE
Bromodichloromethane	BRL	5.5		ug/Kg-dry	201978	1	01/22/2015 02:56	JE
Bromoform	BRL	5.5		ug/Kg-dry	201978	1	01/22/2015 02:56	JE
Bromomethane	BRL	5.5		ug/Kg-dry	201978	1	01/22/2015 02:56	JE
Carbon disulfide	BRL	11		ug/Kg-dry	201978	1	01/22/2015 02:56	JE
Carbon tetrachloride	BRL	5.5		ug/Kg-dry	201978	1	01/22/2015 02:56	JE
Chlorobenzene	BRL	5.5		ug/Kg-dry	201978	1	01/22/2015 02:56	JE
Chloroethane	BRL	11		ug/Kg-dry	201978	1	01/22/2015 02:56	JE
Chloroform	BRL	5.5		ug/Kg-dry	201978	1	01/22/2015 02:56	JE
Chloromethane	BRL	11		ug/Kg-dry	201978	1	01/22/2015 02:56	JE
cis-1,2-Dichloroethene	80	5.5		ug/Kg-dry	201978	1	01/22/2015 02:56	JE
cis-1,3-Dichloropropene	BRL	5.5		ug/Kg-dry	201978	1	01/22/2015 02:56	JE
Cyclohexane	BRL	5.5		ug/Kg-dry	201978	1	01/22/2015 02:56	JE
Dibromochloromethane	BRL	5.5		ug/Kg-dry	201978	1	01/22/2015 02:56	JE
Dichlorodifluoromethane	BRL	11		ug/Kg-dry	201978	1	01/22/2015 02:56	JE
Ethylbenzene	BRL	5.5		ug/Kg-dry	201978	1	01/22/2015 02:56	JE
Freon-113	BRL	11		ug/Kg-dry	201978	1	01/22/2015 02:56	JE
Isopropylbenzene	BRL	5.5		ug/Kg-dry	201978	1	01/22/2015 02:56	JE
m,p-Xylene	BRL	5.5		ug/Kg-dry	201978	1	01/22/2015 02:56	JE
Methyl acetate	BRL	5.5		ug/Kg-dry	201978	1	01/22/2015 02:56	JE
Methyl tert-butyl ether	BRL	5.5		ug/Kg-dry	201978	1	01/22/2015 02:56	JE
Methylcyclohexane	BRL	5.5		ug/Kg-dry	201978	1	01/22/2015 02:56	JE
Methylene chloride	BRL	22		ug/Kg-dry	201978	1	01/22/2015 02:56	JE
o-Xylene	BRL	5.5		ug/Kg-dry	201978	1	01/22/2015 02:56	JE

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 4-Feb-15

Client: Arcadis	Client Sample ID: SB-149 (22-24)
Project Name: Lafarge EP	Collection Date: 1/15/2015 9:14:00 AM
Lab ID: 1501B59-037	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5035)				
Styrene	BRL	5.5		ug/Kg-dry	201978	1	01/22/2015 02:56	JE
Tetrachloroethene	BRL	5.5		ug/Kg-dry	201978	1	01/22/2015 02:56	JE
Toluene	BRL	5.5		ug/Kg-dry	201978	1	01/22/2015 02:56	JE
trans-1,2-Dichloroethene	BRL	5.5		ug/Kg-dry	201978	1	01/22/2015 02:56	JE
trans-1,3-Dichloropropene	BRL	5.5		ug/Kg-dry	201978	1	01/22/2015 02:56	JE
Trichloroethene	BRL	5.5		ug/Kg-dry	201978	1	01/22/2015 02:56	JE
Trichlorofluoromethane	BRL	5.5		ug/Kg-dry	201978	1	01/22/2015 02:56	JE
Vinyl chloride	BRL	11		ug/Kg-dry	201978	1	01/22/2015 02:56	JE
Surr: 4-Bromofluorobenzene	89.7	70-128		%REC	201978	1	01/22/2015 02:56	JE
Surr: Dibromofluoromethane	89.9	78.2-128		%REC	201978	1	01/22/2015 02:56	JE
Surr: Toluene-d8	85.4	76.5-116		%REC	201978	1	01/22/2015 02:56	JE
METALS, TOTAL SW6010C				(SW3050B)				
Lead	18.8	6.16		mg/Kg-dry	202052	1	01/23/2015 18:42	JL
PERCENT MOISTURE D2216								
Percent Moisture	20.1	0		wt%	R284187	1	01/22/2015 12:00	PF

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: SB-149 (0-1)
Project Name: Lafarge EP	Collection Date: 1/15/2015 8:55:00 AM
Lab ID: 1501B59-038	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	5.5		ug/Kg-dry	201978	1	01/22/2015 16:31	MD
1,1,2,2-Tetrachloroethane	BRL	5.5		ug/Kg-dry	201978	1	01/22/2015 16:31	MD
1,1,2-Trichloroethane	BRL	5.5		ug/Kg-dry	201978	1	01/22/2015 16:31	MD
1,1-Dichloroethane	BRL	5.5		ug/Kg-dry	201978	1	01/22/2015 16:31	MD
1,1-Dichloroethene	BRL	5.5		ug/Kg-dry	201978	1	01/22/2015 16:31	MD
1,2,4-Trichlorobenzene	BRL	5.5		ug/Kg-dry	201978	1	01/22/2015 16:31	MD
1,2-Dibromo-3-chloropropane	BRL	5.5		ug/Kg-dry	201978	1	01/22/2015 16:31	MD
1,2-Dibromoethane	BRL	5.5		ug/Kg-dry	201978	1	01/22/2015 16:31	MD
1,2-Dichlorobenzene	BRL	5.5		ug/Kg-dry	201978	1	01/22/2015 16:31	MD
1,2-Dichloroethane	BRL	5.5		ug/Kg-dry	201978	1	01/22/2015 16:31	MD
1,2-Dichloropropane	BRL	5.5		ug/Kg-dry	201978	1	01/22/2015 16:31	MD
1,3-Dichlorobenzene	BRL	5.5		ug/Kg-dry	201978	1	01/22/2015 16:31	MD
1,4-Dichlorobenzene	BRL	5.5		ug/Kg-dry	201978	1	01/22/2015 16:31	MD
2-Butanone	BRL	55		ug/Kg-dry	201978	1	01/22/2015 16:31	MD
2-Hexanone	BRL	11		ug/Kg-dry	201978	1	01/22/2015 16:31	MD
4-Methyl-2-pentanone	BRL	11		ug/Kg-dry	201978	1	01/22/2015 16:31	MD
Acetone	120	110		ug/Kg-dry	201978	1	01/22/2015 16:31	MD
Benzene	BRL	5.5		ug/Kg-dry	201978	1	01/22/2015 16:31	MD
Bromodichloromethane	BRL	5.5		ug/Kg-dry	201978	1	01/22/2015 16:31	MD
Bromoform	BRL	5.5		ug/Kg-dry	201978	1	01/22/2015 16:31	MD
Bromomethane	BRL	5.5		ug/Kg-dry	201978	1	01/22/2015 16:31	MD
Carbon disulfide	BRL	11		ug/Kg-dry	201978	1	01/22/2015 16:31	MD
Carbon tetrachloride	BRL	5.5		ug/Kg-dry	201978	1	01/22/2015 16:31	MD
Chlorobenzene	BRL	5.5		ug/Kg-dry	201978	1	01/22/2015 16:31	MD
Chloroethane	BRL	11		ug/Kg-dry	201978	1	01/22/2015 16:31	MD
Chloroform	BRL	5.5		ug/Kg-dry	201978	1	01/22/2015 16:31	MD
Chloromethane	BRL	11		ug/Kg-dry	201978	1	01/22/2015 16:31	MD
cis-1,2-Dichloroethene	BRL	5.5		ug/Kg-dry	201978	1	01/22/2015 16:31	MD
cis-1,3-Dichloropropene	BRL	5.5		ug/Kg-dry	201978	1	01/22/2015 16:31	MD
Cyclohexane	BRL	5.5		ug/Kg-dry	201978	1	01/22/2015 16:31	MD
Dibromochloromethane	BRL	5.5		ug/Kg-dry	201978	1	01/22/2015 16:31	MD
Dichlorodifluoromethane	BRL	11		ug/Kg-dry	201978	1	01/22/2015 16:31	MD
Ethylbenzene	BRL	5.5		ug/Kg-dry	201978	1	01/22/2015 16:31	MD
Freon-113	BRL	11		ug/Kg-dry	201978	1	01/22/2015 16:31	MD
Isopropylbenzene	BRL	5.5		ug/Kg-dry	201978	1	01/22/2015 16:31	MD
m,p-Xylene	BRL	5.5		ug/Kg-dry	201978	1	01/22/2015 16:31	MD
Methyl acetate	BRL	5.5		ug/Kg-dry	201978	1	01/22/2015 16:31	MD
Methyl tert-butyl ether	BRL	5.5		ug/Kg-dry	201978	1	01/22/2015 16:31	MD
Methylcyclohexane	BRL	5.5		ug/Kg-dry	201978	1	01/22/2015 16:31	MD
Methylene chloride	BRL	22		ug/Kg-dry	201978	1	01/22/2015 16:31	MD
o-Xylene	BRL	5.5		ug/Kg-dry	201978	1	01/22/2015 16:31	MD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: SB-149 (0-1)
Project Name: Lafarge EP	Collection Date: 1/15/2015 8:55:00 AM
Lab ID: 1501B59-038	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5035)				
Styrene	BRL	5.5		ug/Kg-dry	201978	1	01/22/2015 16:31	MD
Tetrachloroethene	BRL	5.5		ug/Kg-dry	201978	1	01/22/2015 16:31	MD
Toluene	BRL	5.5		ug/Kg-dry	201978	1	01/22/2015 16:31	MD
trans-1,2-Dichloroethene	BRL	5.5		ug/Kg-dry	201978	1	01/22/2015 16:31	MD
trans-1,3-Dichloropropene	BRL	5.5		ug/Kg-dry	201978	1	01/22/2015 16:31	MD
Trichloroethene	BRL	5.5		ug/Kg-dry	201978	1	01/22/2015 16:31	MD
Trichlorofluoromethane	BRL	5.5		ug/Kg-dry	201978	1	01/22/2015 16:31	MD
Vinyl chloride	BRL	11		ug/Kg-dry	201978	1	01/22/2015 16:31	MD
Surr: 4-Bromofluorobenzene	83.9	70-128		%REC	201978	1	01/22/2015 16:31	MD
Surr: Dibromofluoromethane	90.8	78.2-128		%REC	201978	1	01/22/2015 16:31	MD
Surr: Toluene-d8	84.1	76.5-116		%REC	201978	1	01/22/2015 16:31	MD
METALS, TOTAL SW6010C				(SW3050B)				
Lead	17.4	5.78		mg/Kg-dry	202052	1	01/23/2015 18:46	JL
PERCENT MOISTURE D2216								
Percent Moisture	14.7	0		wt%	R284187	1	01/22/2015 12:00	PF

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: SB-148 (0-1)
Project Name: Lafarge EP	Collection Date: 1/14/2015 3:33:00 PM
Lab ID: 1501B59-039	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	3.9		ug/Kg-dry	201978	1	01/22/2015 03:47	JE
1,1,2,2-Tetrachloroethane	BRL	3.9		ug/Kg-dry	201978	1	01/22/2015 03:47	JE
1,1,2-Trichloroethane	BRL	3.9		ug/Kg-dry	201978	1	01/22/2015 03:47	JE
1,1-Dichloroethane	BRL	3.9		ug/Kg-dry	201978	1	01/22/2015 03:47	JE
1,1-Dichloroethene	BRL	3.9		ug/Kg-dry	201978	1	01/22/2015 03:47	JE
1,2,4-Trichlorobenzene	BRL	3.9		ug/Kg-dry	201978	1	01/22/2015 03:47	JE
1,2-Dibromo-3-chloropropane	BRL	3.9		ug/Kg-dry	201978	1	01/22/2015 03:47	JE
1,2-Dibromoethane	BRL	3.9		ug/Kg-dry	201978	1	01/22/2015 03:47	JE
1,2-Dichlorobenzene	BRL	3.9		ug/Kg-dry	201978	1	01/22/2015 03:47	JE
1,2-Dichloroethane	BRL	3.9		ug/Kg-dry	201978	1	01/22/2015 03:47	JE
1,2-Dichloropropane	BRL	3.9		ug/Kg-dry	201978	1	01/22/2015 03:47	JE
1,3-Dichlorobenzene	BRL	3.9		ug/Kg-dry	201978	1	01/22/2015 03:47	JE
1,4-Dichlorobenzene	BRL	3.9		ug/Kg-dry	201978	1	01/22/2015 03:47	JE
2-Butanone	BRL	39		ug/Kg-dry	201978	1	01/22/2015 03:47	JE
2-Hexanone	BRL	7.9		ug/Kg-dry	201978	1	01/22/2015 03:47	JE
4-Methyl-2-pentanone	BRL	7.9		ug/Kg-dry	201978	1	01/22/2015 03:47	JE
Acetone	BRL	79		ug/Kg-dry	201978	1	01/22/2015 03:47	JE
Benzene	5.5	3.9		ug/Kg-dry	201978	1	01/22/2015 03:47	JE
Bromodichloromethane	BRL	3.9		ug/Kg-dry	201978	1	01/22/2015 03:47	JE
Bromoform	BRL	3.9		ug/Kg-dry	201978	1	01/22/2015 03:47	JE
Bromomethane	BRL	3.9		ug/Kg-dry	201978	1	01/22/2015 03:47	JE
Carbon disulfide	BRL	7.9		ug/Kg-dry	201978	1	01/22/2015 03:47	JE
Carbon tetrachloride	BRL	3.9		ug/Kg-dry	201978	1	01/22/2015 03:47	JE
Chlorobenzene	BRL	3.9		ug/Kg-dry	201978	1	01/22/2015 03:47	JE
Chloroethane	BRL	7.9		ug/Kg-dry	201978	1	01/22/2015 03:47	JE
Chloroform	BRL	3.9		ug/Kg-dry	201978	1	01/22/2015 03:47	JE
Chloromethane	BRL	7.9		ug/Kg-dry	201978	1	01/22/2015 03:47	JE
cis-1,2-Dichloroethene	BRL	3.9		ug/Kg-dry	201978	1	01/22/2015 03:47	JE
cis-1,3-Dichloropropene	BRL	3.9		ug/Kg-dry	201978	1	01/22/2015 03:47	JE
Cyclohexane	BRL	3.9		ug/Kg-dry	201978	1	01/22/2015 03:47	JE
Dibromochloromethane	BRL	3.9		ug/Kg-dry	201978	1	01/22/2015 03:47	JE
Dichlorodifluoromethane	BRL	7.9		ug/Kg-dry	201978	1	01/22/2015 03:47	JE
Ethylbenzene	9.7	3.9		ug/Kg-dry	201978	1	01/22/2015 03:47	JE
Freon-113	BRL	7.9		ug/Kg-dry	201978	1	01/22/2015 03:47	JE
Isopropylbenzene	BRL	3.9		ug/Kg-dry	201978	1	01/22/2015 03:47	JE
m,p-Xylene	BRL	3.9		ug/Kg-dry	201978	1	01/22/2015 03:47	JE
Methyl acetate	BRL	3.9		ug/Kg-dry	201978	1	01/22/2015 03:47	JE
Methyl tert-butyl ether	BRL	3.9		ug/Kg-dry	201978	1	01/22/2015 03:47	JE
Methylcyclohexane	BRL	3.9		ug/Kg-dry	201978	1	01/22/2015 03:47	JE
Methylene chloride	BRL	16		ug/Kg-dry	201978	1	01/22/2015 03:47	JE
o-Xylene	BRL	3.9		ug/Kg-dry	201978	1	01/22/2015 03:47	JE

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: SB-148 (0-1)
Project Name: Lafarge EP	Collection Date: 1/14/2015 3:33:00 PM
Lab ID: 1501B59-039	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5035)				
Styrene	BRL	3.9		ug/Kg-dry	201978	1	01/22/2015 03:47	JE
Tetrachloroethene	BRL	3.9		ug/Kg-dry	201978	1	01/22/2015 03:47	JE
Toluene	BRL	3.9		ug/Kg-dry	201978	1	01/22/2015 03:47	JE
trans-1,2-Dichloroethene	BRL	3.9		ug/Kg-dry	201978	1	01/22/2015 03:47	JE
trans-1,3-Dichloropropene	BRL	3.9		ug/Kg-dry	201978	1	01/22/2015 03:47	JE
Trichloroethene	BRL	3.9		ug/Kg-dry	201978	1	01/22/2015 03:47	JE
Trichlorofluoromethane	BRL	3.9		ug/Kg-dry	201978	1	01/22/2015 03:47	JE
Vinyl chloride	BRL	7.9		ug/Kg-dry	201978	1	01/22/2015 03:47	JE
Surr: 4-Bromofluorobenzene	87.3	70-128		%REC	201978	1	01/22/2015 03:47	JE
Surr: Dibromofluoromethane	86.9	78.2-128		%REC	201978	1	01/22/2015 03:47	JE
Surr: Toluene-d8	85	76.5-116		%REC	201978	1	01/22/2015 03:47	JE
METALS, TOTAL SW6010C				(SW3050B)				
Lead	148	6.18		mg/Kg-dry	202052	1	01/23/2015 18:50	JL
PERCENT MOISTURE D2216								
Percent Moisture	23.5	0		wt%	R284187	1	01/22/2015 12:00	PF

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: SB-148 (1-3)
Project Name: Lafarge EP	Collection Date: 1/14/2015 3:34:00 PM
Lab ID: 1501B59-040	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	2400		ug/Kg-dry	201833	500	01/22/2015 18:45	GC
1,1,2,2-Tetrachloroethane	BRL	2400		ug/Kg-dry	201833	500	01/22/2015 18:45	GC
1,1,2-Trichloroethane	BRL	2400		ug/Kg-dry	201833	500	01/22/2015 18:45	GC
1,1-Dichloroethane	BRL	2400		ug/Kg-dry	201833	500	01/22/2015 18:45	GC
1,1-Dichloroethene	BRL	2400		ug/Kg-dry	201833	500	01/22/2015 18:45	GC
1,2,4-Trichlorobenzene	BRL	2400		ug/Kg-dry	201833	500	01/22/2015 18:45	GC
1,2-Dibromo-3-chloropropane	BRL	2400		ug/Kg-dry	201833	500	01/22/2015 18:45	GC
1,2-Dibromoethane	BRL	2400		ug/Kg-dry	201833	500	01/22/2015 18:45	GC
1,2-Dichlorobenzene	BRL	2400		ug/Kg-dry	201833	500	01/22/2015 18:45	GC
1,2-Dichloroethane	BRL	2400		ug/Kg-dry	201833	500	01/22/2015 18:45	GC
1,2-Dichloropropane	BRL	2400		ug/Kg-dry	201833	500	01/22/2015 18:45	GC
1,3-Dichlorobenzene	BRL	2400		ug/Kg-dry	201833	500	01/22/2015 18:45	GC
1,4-Dichlorobenzene	BRL	2400		ug/Kg-dry	201833	500	01/22/2015 18:45	GC
2-Butanone	BRL	24000		ug/Kg-dry	201833	500	01/22/2015 18:45	GC
2-Hexanone	BRL	4800		ug/Kg-dry	201833	500	01/22/2015 18:45	GC
4-Methyl-2-pentanone	49000	4800		ug/Kg-dry	201833	500	01/22/2015 18:45	GC
Acetone	BRL	48000		ug/Kg-dry	201833	500	01/22/2015 18:45	GC
Benzene	BRL	2400		ug/Kg-dry	201833	500	01/22/2015 18:45	GC
Bromodichloromethane	BRL	2400		ug/Kg-dry	201833	500	01/22/2015 18:45	GC
Bromoform	BRL	2400		ug/Kg-dry	201833	500	01/22/2015 18:45	GC
Bromomethane	BRL	2400		ug/Kg-dry	201833	500	01/22/2015 18:45	GC
Carbon disulfide	BRL	4800		ug/Kg-dry	201833	500	01/22/2015 18:45	GC
Carbon tetrachloride	BRL	2400		ug/Kg-dry	201833	500	01/22/2015 18:45	GC
Chlorobenzene	BRL	2400		ug/Kg-dry	201833	500	01/22/2015 18:45	GC
Chloroethane	BRL	4800		ug/Kg-dry	201833	500	01/22/2015 18:45	GC
Chloroform	BRL	2400		ug/Kg-dry	201833	500	01/22/2015 18:45	GC
Chloromethane	BRL	4800		ug/Kg-dry	201833	500	01/22/2015 18:45	GC
cis-1,2-Dichloroethene	BRL	2400		ug/Kg-dry	201833	500	01/22/2015 18:45	GC
cis-1,3-Dichloropropene	BRL	2400		ug/Kg-dry	201833	500	01/22/2015 18:45	GC
Cyclohexane	41000	2400		ug/Kg-dry	201833	500	01/22/2015 18:45	GC
Dibromochloromethane	BRL	2400		ug/Kg-dry	201833	500	01/22/2015 18:45	GC
Dichlorodifluoromethane	BRL	4800		ug/Kg-dry	201833	500	01/22/2015 18:45	GC
Ethylbenzene	89000	2400		ug/Kg-dry	201833	500	01/22/2015 18:45	GC
Freon-113	BRL	4800		ug/Kg-dry	201833	500	01/22/2015 18:45	GC
Isopropylbenzene	3500	2400		ug/Kg-dry	201833	500	01/22/2015 18:45	GC
m,p-Xylene	28000	2400		ug/Kg-dry	201833	500	01/22/2015 18:45	GC
Methyl acetate	8900	2400		ug/Kg-dry	201833	500	01/22/2015 18:45	GC
Methyl tert-butyl ether	BRL	2400		ug/Kg-dry	201833	500	01/22/2015 18:45	GC
Methylcyclohexane	130000	24000		ug/Kg-dry	201833	5000	01/23/2015 14:04	NH
Methylene chloride	BRL	9700		ug/Kg-dry	201833	500	01/22/2015 18:45	GC
o-Xylene	BRL	2400		ug/Kg-dry	201833	500	01/22/2015 18:45	GC

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: SB-148 (1-3)
Project Name: Lafarge EP	Collection Date: 1/14/2015 3:34:00 PM
Lab ID: 1501B59-040	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B		(SW5035)						
Styrene	BRL	2400		ug/Kg-dry	201833	500	01/22/2015 18:45	GC
Tetrachloroethene	BRL	2400		ug/Kg-dry	201833	500	01/22/2015 18:45	GC
Toluene	BRL	2400		ug/Kg-dry	201833	500	01/22/2015 18:45	GC
trans-1,2-Dichloroethene	BRL	2400		ug/Kg-dry	201833	500	01/22/2015 18:45	GC
trans-1,3-Dichloropropene	BRL	2400		ug/Kg-dry	201833	500	01/22/2015 18:45	GC
Trichloroethene	BRL	2400		ug/Kg-dry	201833	500	01/22/2015 18:45	GC
Trichlorofluoromethane	BRL	2400		ug/Kg-dry	201833	500	01/22/2015 18:45	GC
Vinyl chloride	BRL	4800		ug/Kg-dry	201833	500	01/22/2015 18:45	GC
Surr: 4-Bromofluorobenzene	102	70-128		%REC	201833	5000	01/23/2015 14:04	NH
Surr: 4-Bromofluorobenzene	105	70-128		%REC	201833	500	01/22/2015 18:45	GC
Surr: Dibromofluoromethane	95.1	78.2-128		%REC	201833	500	01/22/2015 18:45	GC
Surr: Dibromofluoromethane	88.3	78.2-128		%REC	201833	5000	01/23/2015 14:04	NH
Surr: Toluene-d8	96.6	76.5-116		%REC	201833	5000	01/23/2015 14:04	NH
Surr: Toluene-d8	106	76.5-116		%REC	201833	500	01/22/2015 18:45	GC
METALS, TOTAL SW6010C		(SW3050B)						
Lead	15.9	5.79		mg/Kg-dry	202052	1	01/23/2015 18:54	JL
PERCENT MOISTURE D2216								
Percent Moisture	16.5	0		wt%	R284187	1	01/22/2015 12:00	PF

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 4-Feb-15

Client: Arcadis	Client Sample ID: SB-148 (8-10)
Project Name: Lafarge EP	Collection Date: 1/14/2015 3:40:00 PM
Lab ID: 1501B59-041	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					(SW3050B)			
Lead	15.7	5.84		mg/Kg-dry	202052	1	01/23/2015 18:58	JL
PERCENT MOISTURE D2216								
Percent Moisture	15.0	0		wt%	R284187	1	01/22/2015 12:00	PF

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: SB-148 (22-23)
Project Name: Lafarge EP	Collection Date: 1/14/2015 3:50:00 PM
Lab ID: 1501B59-042	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	5.1		ug/Kg-dry	201978	1	01/22/2015 14:24	MD
1,1,2,2-Tetrachloroethane	BRL	5.1		ug/Kg-dry	201978	1	01/22/2015 14:24	MD
1,1,2-Trichloroethane	BRL	5.1		ug/Kg-dry	201978	1	01/22/2015 14:24	MD
1,1-Dichloroethane	BRL	5.1		ug/Kg-dry	201978	1	01/22/2015 14:24	MD
1,1-Dichloroethene	BRL	5.1		ug/Kg-dry	201978	1	01/22/2015 14:24	MD
1,2,4-Trichlorobenzene	BRL	5.1		ug/Kg-dry	201978	1	01/22/2015 14:24	MD
1,2-Dibromo-3-chloropropane	BRL	5.1		ug/Kg-dry	201978	1	01/22/2015 14:24	MD
1,2-Dibromoethane	BRL	5.1		ug/Kg-dry	201978	1	01/22/2015 14:24	MD
1,2-Dichlorobenzene	BRL	5.1		ug/Kg-dry	201978	1	01/22/2015 14:24	MD
1,2-Dichloroethane	BRL	5.1		ug/Kg-dry	201978	1	01/22/2015 14:24	MD
1,2-Dichloropropane	BRL	5.1		ug/Kg-dry	201978	1	01/22/2015 14:24	MD
1,3-Dichlorobenzene	BRL	5.1		ug/Kg-dry	201978	1	01/22/2015 14:24	MD
1,4-Dichlorobenzene	BRL	5.1		ug/Kg-dry	201978	1	01/22/2015 14:24	MD
2-Butanone	4100	2400		ug/Kg-dry	201833	50	01/23/2015 18:00	NH
2-Hexanone	BRL	10		ug/Kg-dry	201978	1	01/22/2015 14:24	MD
4-Methyl-2-pentanone	340	10		ug/Kg-dry	201978	1	01/22/2015 14:24	MD
Acetone	9600	4700		ug/Kg-dry	201833	50	01/23/2015 18:00	NH
Benzene	BRL	5.1		ug/Kg-dry	201978	1	01/22/2015 14:24	MD
Bromodichloromethane	BRL	5.1		ug/Kg-dry	201978	1	01/22/2015 14:24	MD
Bromoform	BRL	5.1		ug/Kg-dry	201978	1	01/22/2015 14:24	MD
Bromomethane	BRL	5.1		ug/Kg-dry	201978	1	01/22/2015 14:24	MD
Carbon disulfide	BRL	10		ug/Kg-dry	201978	1	01/22/2015 14:24	MD
Carbon tetrachloride	BRL	5.1		ug/Kg-dry	201978	1	01/22/2015 14:24	MD
Chlorobenzene	BRL	5.1		ug/Kg-dry	201978	1	01/22/2015 14:24	MD
Chloroethane	BRL	10		ug/Kg-dry	201978	1	01/22/2015 14:24	MD
Chloroform	BRL	5.1		ug/Kg-dry	201978	1	01/22/2015 14:24	MD
Chloromethane	BRL	10		ug/Kg-dry	201978	1	01/22/2015 14:24	MD
cis-1,2-Dichloroethene	BRL	5.1		ug/Kg-dry	201978	1	01/22/2015 14:24	MD
cis-1,3-Dichloropropene	BRL	5.1		ug/Kg-dry	201978	1	01/22/2015 14:24	MD
Cyclohexane	240	5.1	E	ug/Kg-dry	201978	1	01/22/2015 14:24	MD
Dibromochloromethane	BRL	5.1		ug/Kg-dry	201978	1	01/22/2015 14:24	MD
Dichlorodifluoromethane	BRL	10		ug/Kg-dry	201978	1	01/22/2015 14:24	MD
Ethylbenzene	350	240		ug/Kg-dry	201833	50	01/23/2015 18:00	NH
Freon-113	BRL	10		ug/Kg-dry	201978	1	01/22/2015 14:24	MD
Isopropylbenzene	81	5.1		ug/Kg-dry	201978	1	01/22/2015 14:24	MD
m,p-Xylene	2700	240		ug/Kg-dry	201833	50	01/23/2015 18:00	NH
Methyl acetate	340	5.1	E	ug/Kg-dry	201978	1	01/22/2015 14:24	MD
Methyl tert-butyl ether	BRL	5.1		ug/Kg-dry	201978	1	01/22/2015 14:24	MD
Methylcyclohexane	310	240		ug/Kg-dry	201833	50	01/23/2015 18:00	NH
Methylene chloride	BRL	21		ug/Kg-dry	201978	1	01/22/2015 14:24	MD
o-Xylene	510	240		ug/Kg-dry	201833	50	01/23/2015 18:00	NH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: SB-148 (22-23)
Project Name: Lafarge EP	Collection Date: 1/14/2015 3:50:00 PM
Lab ID: 1501B59-042	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B		(SW5035)						
Styrene	BRL	5.1		ug/Kg-dry	201978	1	01/22/2015 14:24	MD
Tetrachloroethene	8.0	5.1		ug/Kg-dry	201978	1	01/22/2015 14:24	MD
Toluene	BRL	5.1		ug/Kg-dry	201978	1	01/22/2015 14:24	MD
trans-1,2-Dichloroethene	BRL	5.1		ug/Kg-dry	201978	1	01/22/2015 14:24	MD
trans-1,3-Dichloropropene	BRL	5.1		ug/Kg-dry	201978	1	01/22/2015 14:24	MD
Trichloroethene	BRL	5.1		ug/Kg-dry	201978	1	01/22/2015 14:24	MD
Trichlorofluoromethane	BRL	5.1		ug/Kg-dry	201978	1	01/22/2015 14:24	MD
Vinyl chloride	BRL	10		ug/Kg-dry	201978	1	01/22/2015 14:24	MD
Surr: 4-Bromofluorobenzene	119	70-128		%REC	201833	50	01/23/2015 18:00	NH
Surr: 4-Bromofluorobenzene	73.5	70-128		%REC	201978	1	01/22/2015 14:24	MD
Surr: Dibromofluoromethane	87	78.2-128		%REC	201833	50	01/23/2015 18:00	NH
Surr: Dibromofluoromethane	83.5	78.2-128		%REC	201978	1	01/22/2015 14:24	MD
Surr: Toluene-d8	95.7	76.5-116		%REC	201833	50	01/23/2015 18:00	NH
Surr: Toluene-d8	91.3	76.5-116		%REC	201978	1	01/22/2015 14:24	MD
METALS, TOTAL SW6010C		(SW3050B)						
Lead	9.25	6.38		mg/Kg-dry	202052	1	01/23/2015 19:01	JL
PERCENT MOISTURE D2216								
Percent Moisture	23.4	0		wt%	R284187	1	01/22/2015 12:00	PF

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: SB-144 (0-1)
Project Name: Lafarge EP	Collection Date: 1/14/2015 1:00:00 PM
Lab ID: 1501B59-043	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	6.6		ug/Kg-dry	201978	1	01/23/2015 12:57	MD
1,1,2,2-Tetrachloroethane	BRL	6.6		ug/Kg-dry	201978	1	01/23/2015 12:57	MD
1,1,2-Trichloroethane	BRL	6.6		ug/Kg-dry	201978	1	01/23/2015 12:57	MD
1,1-Dichloroethane	BRL	6.6		ug/Kg-dry	201978	1	01/23/2015 12:57	MD
1,1-Dichloroethene	BRL	6.6		ug/Kg-dry	201978	1	01/23/2015 12:57	MD
1,2,4-Trichlorobenzene	BRL	6.6		ug/Kg-dry	201978	1	01/23/2015 12:57	MD
1,2-Dibromo-3-chloropropane	BRL	6.6		ug/Kg-dry	201978	1	01/23/2015 12:57	MD
1,2-Dibromoethane	BRL	6.6		ug/Kg-dry	201978	1	01/23/2015 12:57	MD
1,2-Dichlorobenzene	BRL	6.6		ug/Kg-dry	201978	1	01/23/2015 12:57	MD
1,2-Dichloroethane	BRL	6.6		ug/Kg-dry	201978	1	01/23/2015 12:57	MD
1,2-Dichloropropane	BRL	6.6		ug/Kg-dry	201978	1	01/23/2015 12:57	MD
1,3-Dichlorobenzene	BRL	6.6		ug/Kg-dry	201978	1	01/23/2015 12:57	MD
1,4-Dichlorobenzene	BRL	6.6		ug/Kg-dry	201978	1	01/23/2015 12:57	MD
2-Butanone	BRL	66		ug/Kg-dry	201978	1	01/23/2015 12:57	MD
2-Hexanone	BRL	13		ug/Kg-dry	201978	1	01/23/2015 12:57	MD
4-Methyl-2-pentanone	BRL	13		ug/Kg-dry	201978	1	01/23/2015 12:57	MD
Acetone	BRL	130		ug/Kg-dry	201978	1	01/23/2015 12:57	MD
Benzene	BRL	6.6		ug/Kg-dry	201978	1	01/23/2015 12:57	MD
Bromodichloromethane	BRL	6.6		ug/Kg-dry	201978	1	01/23/2015 12:57	MD
Bromoform	BRL	6.6		ug/Kg-dry	201978	1	01/23/2015 12:57	MD
Bromomethane	BRL	6.6		ug/Kg-dry	201978	1	01/23/2015 12:57	MD
Carbon disulfide	BRL	13		ug/Kg-dry	201978	1	01/23/2015 12:57	MD
Carbon tetrachloride	BRL	6.6		ug/Kg-dry	201978	1	01/23/2015 12:57	MD
Chlorobenzene	BRL	6.6		ug/Kg-dry	201978	1	01/23/2015 12:57	MD
Chloroethane	BRL	13		ug/Kg-dry	201978	1	01/23/2015 12:57	MD
Chloroform	BRL	6.6		ug/Kg-dry	201978	1	01/23/2015 12:57	MD
Chloromethane	BRL	13		ug/Kg-dry	201978	1	01/23/2015 12:57	MD
cis-1,2-Dichloroethene	BRL	6.6		ug/Kg-dry	201978	1	01/23/2015 12:57	MD
cis-1,3-Dichloropropene	BRL	6.6		ug/Kg-dry	201978	1	01/23/2015 12:57	MD
Cyclohexane	BRL	6.6		ug/Kg-dry	201978	1	01/23/2015 12:57	MD
Dibromochloromethane	BRL	6.6		ug/Kg-dry	201978	1	01/23/2015 12:57	MD
Dichlorodifluoromethane	BRL	13		ug/Kg-dry	201978	1	01/23/2015 12:57	MD
Ethylbenzene	BRL	6.6		ug/Kg-dry	201978	1	01/23/2015 12:57	MD
Freon-113	BRL	13		ug/Kg-dry	201978	1	01/23/2015 12:57	MD
Isopropylbenzene	BRL	6.6		ug/Kg-dry	201978	1	01/23/2015 12:57	MD
m,p-Xylene	BRL	6.6		ug/Kg-dry	201978	1	01/23/2015 12:57	MD
Methyl acetate	BRL	6.6		ug/Kg-dry	201978	1	01/23/2015 12:57	MD
Methyl tert-butyl ether	BRL	6.6		ug/Kg-dry	201978	1	01/23/2015 12:57	MD
Methylcyclohexane	BRL	6.6		ug/Kg-dry	201978	1	01/23/2015 12:57	MD
Methylene chloride	BRL	26		ug/Kg-dry	201978	1	01/23/2015 12:57	MD
o-Xylene	BRL	6.6		ug/Kg-dry	201978	1	01/23/2015 12:57	MD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: SB-144 (0-1)
Project Name: Lafarge EP	Collection Date: 1/14/2015 1:00:00 PM
Lab ID: 1501B59-043	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5035)				
Styrene	BRL	6.6		ug/Kg-dry	201978	1	01/23/2015 12:57	MD
Tetrachloroethene	BRL	6.6		ug/Kg-dry	201978	1	01/23/2015 12:57	MD
Toluene	BRL	6.6		ug/Kg-dry	201978	1	01/23/2015 12:57	MD
trans-1,2-Dichloroethene	BRL	6.6		ug/Kg-dry	201978	1	01/23/2015 12:57	MD
trans-1,3-Dichloropropene	BRL	6.6		ug/Kg-dry	201978	1	01/23/2015 12:57	MD
Trichloroethene	BRL	6.6		ug/Kg-dry	201978	1	01/23/2015 12:57	MD
Trichlorofluoromethane	BRL	6.6		ug/Kg-dry	201978	1	01/23/2015 12:57	MD
Vinyl chloride	BRL	13		ug/Kg-dry	201978	1	01/23/2015 12:57	MD
Surr: 4-Bromofluorobenzene	76.9	70-128		%REC	201978	1	01/23/2015 12:57	MD
Surr: Dibromofluoromethane	87.6	78.2-128		%REC	201978	1	01/23/2015 12:57	MD
Surr: Toluene-d8	81.2	76.5-116		%REC	201978	1	01/23/2015 12:57	MD
METALS, TOTAL SW6010C				(SW3050B)				
Lead	111	5.99		mg/Kg-dry	202052	1	01/23/2015 01:44	JL
PERCENT MOISTURE D2216								
Percent Moisture	17.1	0		wt%	R284187	1	01/22/2015 12:00	PF

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 4-Feb-15

Client: Arcadis	Client Sample ID: SB-144 (1-3)
Project Name: Lafarge EP	Collection Date: 1/14/2015 1:05:00 PM
Lab ID: 1501B59-044	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					(SW3050B)			
Lead	11.6	6.25		mg/Kg-dry	202052	1	01/23/2015 19:05	JL
PERCENT MOISTURE D2216								
Percent Moisture	20.9	0		wt%	R284187	1	01/22/2015 12:00	PF

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 4-Feb-15

Client: Arcadis	Client Sample ID: SB-144 (8-10)
Project Name: Lafarge EP	Collection Date: 1/14/2015 1:15:00 PM
Lab ID: 1501B59-045	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					(SW3050B)			
Lead	8.50	5.57		mg/Kg-dry	202052	1	01/23/2015 19:09	JL
PERCENT MOISTURE D2216								
Percent Moisture	12.6	0		wt%	R284187	1	01/22/2015 12:00	PF

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: SB-144 (24-25)
Project Name: Lafarge EP	Collection Date: 1/14/2015 1:30:00 PM
Lab ID: 1501B59-046	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	4.1		ug/Kg-dry	201788	1	01/22/2015 15:15	MD
1,1,2,2-Tetrachloroethane	BRL	4.1		ug/Kg-dry	201788	1	01/22/2015 15:15	MD
1,1,2-Trichloroethane	BRL	4.1		ug/Kg-dry	201788	1	01/22/2015 15:15	MD
1,1-Dichloroethane	BRL	4.1		ug/Kg-dry	201788	1	01/22/2015 15:15	MD
1,1-Dichloroethene	BRL	4.1		ug/Kg-dry	201788	1	01/22/2015 15:15	MD
1,2,4-Trichlorobenzene	BRL	4.1		ug/Kg-dry	201788	1	01/22/2015 15:15	MD
1,2-Dibromo-3-chloropropane	BRL	4.1		ug/Kg-dry	201788	1	01/22/2015 15:15	MD
1,2-Dibromoethane	BRL	4.1		ug/Kg-dry	201788	1	01/22/2015 15:15	MD
1,2-Dichlorobenzene	BRL	4.1		ug/Kg-dry	201788	1	01/22/2015 15:15	MD
1,2-Dichloroethane	BRL	4.1		ug/Kg-dry	201788	1	01/22/2015 15:15	MD
1,2-Dichloropropane	BRL	4.1		ug/Kg-dry	201788	1	01/22/2015 15:15	MD
1,3-Dichlorobenzene	BRL	4.1		ug/Kg-dry	201788	1	01/22/2015 15:15	MD
1,4-Dichlorobenzene	BRL	4.1		ug/Kg-dry	201788	1	01/22/2015 15:15	MD
2-Butanone	BRL	41		ug/Kg-dry	201788	1	01/22/2015 15:15	MD
2-Hexanone	BRL	8.2		ug/Kg-dry	201788	1	01/22/2015 15:15	MD
4-Methyl-2-pentanone	BRL	8.2		ug/Kg-dry	201788	1	01/22/2015 15:15	MD
Acetone	BRL	82		ug/Kg-dry	201788	1	01/22/2015 15:15	MD
Benzene	BRL	4.1		ug/Kg-dry	201788	1	01/22/2015 15:15	MD
Bromodichloromethane	BRL	4.1		ug/Kg-dry	201788	1	01/22/2015 15:15	MD
Bromoform	BRL	4.1		ug/Kg-dry	201788	1	01/22/2015 15:15	MD
Bromomethane	BRL	4.1		ug/Kg-dry	201788	1	01/22/2015 15:15	MD
Carbon disulfide	BRL	8.2		ug/Kg-dry	201788	1	01/22/2015 15:15	MD
Carbon tetrachloride	BRL	4.1		ug/Kg-dry	201788	1	01/22/2015 15:15	MD
Chlorobenzene	BRL	4.1		ug/Kg-dry	201788	1	01/22/2015 15:15	MD
Chloroethane	BRL	8.2		ug/Kg-dry	201788	1	01/22/2015 15:15	MD
Chloroform	BRL	4.1		ug/Kg-dry	201788	1	01/22/2015 15:15	MD
Chloromethane	BRL	8.2		ug/Kg-dry	201788	1	01/22/2015 15:15	MD
cis-1,2-Dichloroethene	BRL	4.1		ug/Kg-dry	201788	1	01/22/2015 15:15	MD
cis-1,3-Dichloropropene	BRL	4.1		ug/Kg-dry	201788	1	01/22/2015 15:15	MD
Cyclohexane	BRL	4.1		ug/Kg-dry	201788	1	01/22/2015 15:15	MD
Dibromochloromethane	BRL	4.1		ug/Kg-dry	201788	1	01/22/2015 15:15	MD
Dichlorodifluoromethane	BRL	8.2		ug/Kg-dry	201788	1	01/22/2015 15:15	MD
Ethylbenzene	BRL	4.1		ug/Kg-dry	201788	1	01/22/2015 15:15	MD
Freon-113	BRL	8.2		ug/Kg-dry	201788	1	01/22/2015 15:15	MD
Isopropylbenzene	BRL	4.1		ug/Kg-dry	201788	1	01/22/2015 15:15	MD
m,p-Xylene	BRL	4.1		ug/Kg-dry	201788	1	01/22/2015 15:15	MD
Methyl acetate	BRL	4.1		ug/Kg-dry	201788	1	01/22/2015 15:15	MD
Methyl tert-butyl ether	BRL	4.1		ug/Kg-dry	201788	1	01/22/2015 15:15	MD
Methylcyclohexane	BRL	4.1		ug/Kg-dry	201788	1	01/22/2015 15:15	MD
Methylene chloride	BRL	16		ug/Kg-dry	201788	1	01/22/2015 15:15	MD
o-Xylene	BRL	4.1		ug/Kg-dry	201788	1	01/22/2015 15:15	MD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: SB-144 (24-25)
Project Name: Lafarge EP	Collection Date: 1/14/2015 1:30:00 PM
Lab ID: 1501B59-046	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5035)				
Styrene	BRL	4.1		ug/Kg-dry	201788	1	01/22/2015 15:15	MD
Tetrachloroethene	BRL	4.1		ug/Kg-dry	201788	1	01/22/2015 15:15	MD
Toluene	BRL	4.1		ug/Kg-dry	201788	1	01/22/2015 15:15	MD
trans-1,2-Dichloroethene	BRL	4.1		ug/Kg-dry	201788	1	01/22/2015 15:15	MD
trans-1,3-Dichloropropene	BRL	4.1		ug/Kg-dry	201788	1	01/22/2015 15:15	MD
Trichloroethene	BRL	4.1		ug/Kg-dry	201788	1	01/22/2015 15:15	MD
Trichlorofluoromethane	BRL	4.1		ug/Kg-dry	201788	1	01/22/2015 15:15	MD
Vinyl chloride	BRL	8.2		ug/Kg-dry	201788	1	01/22/2015 15:15	MD
Surr: 4-Bromofluorobenzene	90.6	70-128		%REC	201788	1	01/22/2015 15:15	MD
Surr: Dibromofluoromethane	83.7	78.2-128		%REC	201788	1	01/22/2015 15:15	MD
Surr: Toluene-d8	83.7	76.5-116		%REC	201788	1	01/22/2015 15:15	MD
METALS, TOTAL SW6010C				(SW3050B)				
Lead	BRL	6.20		mg/Kg-dry	202052	1	01/23/2015 19:19	JL
PERCENT MOISTURE D2216								
Percent Moisture	20.1	0		wt%	R284187	1	01/22/2015 12:00	PF

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: SB-142 (0-1)
Project Name: Lafarge EP	Collection Date: 1/14/2015 9:42:00 AM
Lab ID: 1501B59-047	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	7.5		ug/Kg-dry	202023	1	01/22/2015 16:56	MD
1,1,2,2-Tetrachloroethane	BRL	7.5		ug/Kg-dry	202023	1	01/22/2015 16:56	MD
1,1,2-Trichloroethane	BRL	7.5		ug/Kg-dry	202023	1	01/22/2015 16:56	MD
1,1-Dichloroethane	BRL	7.5		ug/Kg-dry	202023	1	01/22/2015 16:56	MD
1,1-Dichloroethene	BRL	7.5		ug/Kg-dry	202023	1	01/22/2015 16:56	MD
1,2,4-Trichlorobenzene	BRL	7.5		ug/Kg-dry	202023	1	01/22/2015 16:56	MD
1,2-Dibromo-3-chloropropane	BRL	7.5		ug/Kg-dry	202023	1	01/22/2015 16:56	MD
1,2-Dibromoethane	BRL	7.5		ug/Kg-dry	202023	1	01/22/2015 16:56	MD
1,2-Dichlorobenzene	BRL	7.5		ug/Kg-dry	202023	1	01/22/2015 16:56	MD
1,2-Dichloroethane	BRL	7.5		ug/Kg-dry	202023	1	01/22/2015 16:56	MD
1,2-Dichloropropane	BRL	7.5		ug/Kg-dry	202023	1	01/22/2015 16:56	MD
1,3-Dichlorobenzene	BRL	7.5		ug/Kg-dry	202023	1	01/22/2015 16:56	MD
1,4-Dichlorobenzene	BRL	7.5		ug/Kg-dry	202023	1	01/22/2015 16:56	MD
2-Butanone	BRL	7.5		ug/Kg-dry	202023	1	01/22/2015 16:56	MD
2-Hexanone	BRL	15		ug/Kg-dry	202023	1	01/22/2015 16:56	MD
4-Methyl-2-pentanone	BRL	15		ug/Kg-dry	202023	1	01/22/2015 16:56	MD
Acetone	BRL	150		ug/Kg-dry	202023	1	01/22/2015 16:56	MD
Benzene	BRL	7.5		ug/Kg-dry	202023	1	01/22/2015 16:56	MD
Bromodichloromethane	BRL	7.5		ug/Kg-dry	202023	1	01/22/2015 16:56	MD
Bromoform	BRL	7.5		ug/Kg-dry	202023	1	01/22/2015 16:56	MD
Bromomethane	BRL	7.5		ug/Kg-dry	202023	1	01/22/2015 16:56	MD
Carbon disulfide	BRL	15		ug/Kg-dry	202023	1	01/22/2015 16:56	MD
Carbon tetrachloride	BRL	7.5		ug/Kg-dry	202023	1	01/22/2015 16:56	MD
Chlorobenzene	BRL	7.5		ug/Kg-dry	202023	1	01/22/2015 16:56	MD
Chloroethane	BRL	15		ug/Kg-dry	202023	1	01/22/2015 16:56	MD
Chloroform	BRL	7.5		ug/Kg-dry	202023	1	01/22/2015 16:56	MD
Chloromethane	BRL	15		ug/Kg-dry	202023	1	01/22/2015 16:56	MD
cis-1,2-Dichloroethene	BRL	7.5		ug/Kg-dry	202023	1	01/22/2015 16:56	MD
cis-1,3-Dichloropropene	BRL	7.5		ug/Kg-dry	202023	1	01/22/2015 16:56	MD
Cyclohexane	150	7.5		ug/Kg-dry	202023	1	01/22/2015 16:56	MD
Dibromochloromethane	BRL	7.5		ug/Kg-dry	202023	1	01/22/2015 16:56	MD
Dichlorodifluoromethane	BRL	15		ug/Kg-dry	202023	1	01/22/2015 16:56	MD
Ethylbenzene	BRL	7.5		ug/Kg-dry	202023	1	01/22/2015 16:56	MD
Freon-113	BRL	15		ug/Kg-dry	202023	1	01/22/2015 16:56	MD
Isopropylbenzene	BRL	7.5		ug/Kg-dry	202023	1	01/22/2015 16:56	MD
m,p-Xylene	56	7.5		ug/Kg-dry	202023	1	01/22/2015 16:56	MD
Methyl acetate	BRL	7.5		ug/Kg-dry	202023	1	01/22/2015 16:56	MD
Methyl tert-butyl ether	BRL	7.5		ug/Kg-dry	202023	1	01/22/2015 16:56	MD
Methylcyclohexane	300	7.5		ug/Kg-dry	202023	1	01/22/2015 16:56	MD
Methylene chloride	BRL	30		ug/Kg-dry	202023	1	01/22/2015 16:56	MD
o-Xylene	19	7.5		ug/Kg-dry	202023	1	01/22/2015 16:56	MD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: SB-142 (0-1)
Project Name: Lafarge EP	Collection Date: 1/14/2015 9:42:00 AM
Lab ID: 1501B59-047	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5035)				
Styrene	BRL	7.5		ug/Kg-dry	202023	1	01/22/2015 16:56	MD
Tetrachloroethene	BRL	7.5		ug/Kg-dry	202023	1	01/22/2015 16:56	MD
Toluene	BRL	7.5		ug/Kg-dry	202023	1	01/22/2015 16:56	MD
trans-1,2-Dichloroethene	BRL	7.5		ug/Kg-dry	202023	1	01/22/2015 16:56	MD
trans-1,3-Dichloropropene	BRL	7.5		ug/Kg-dry	202023	1	01/22/2015 16:56	MD
Trichloroethene	BRL	7.5		ug/Kg-dry	202023	1	01/22/2015 16:56	MD
Trichlorofluoromethane	BRL	7.5		ug/Kg-dry	202023	1	01/22/2015 16:56	MD
Vinyl chloride	BRL	15		ug/Kg-dry	202023	1	01/22/2015 16:56	MD
Surr: 4-Bromofluorobenzene	85.1	70-128		%REC	202023	1	01/22/2015 16:56	MD
Surr: Dibromofluoromethane	87.7	78.2-128		%REC	202023	1	01/22/2015 16:56	MD
Surr: Toluene-d8	85.2	76.5-116		%REC	202023	1	01/22/2015 16:56	MD
METALS, TOTAL SW6010C				(SW3050B)				
Lead	39.0	4.98		mg/Kg-dry	202053	1	01/23/2015 01:10	JL
PERCENT MOISTURE D2216								
Percent Moisture	0.682	0		wt%	R284187	1	01/22/2015 12:00	PF

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: SB-142 (26-28)
Project Name: Lafarge EP	Collection Date: 1/14/2015 10:20:00 AM
Lab ID: 1501B59-048	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	4.5		ug/Kg-dry	202023	1	01/22/2015 17:22	MD
1,1,2,2-Tetrachloroethane	BRL	4.5		ug/Kg-dry	202023	1	01/22/2015 17:22	MD
1,1,2-Trichloroethane	BRL	4.5		ug/Kg-dry	202023	1	01/22/2015 17:22	MD
1,1-Dichloroethane	BRL	4.5		ug/Kg-dry	202023	1	01/22/2015 17:22	MD
1,1-Dichloroethene	BRL	4.5		ug/Kg-dry	202023	1	01/22/2015 17:22	MD
1,2,4-Trichlorobenzene	BRL	4.5		ug/Kg-dry	202023	1	01/22/2015 17:22	MD
1,2-Dibromo-3-chloropropane	BRL	4.5		ug/Kg-dry	202023	1	01/22/2015 17:22	MD
1,2-Dibromoethane	BRL	4.5		ug/Kg-dry	202023	1	01/22/2015 17:22	MD
1,2-Dichlorobenzene	BRL	4.5		ug/Kg-dry	202023	1	01/22/2015 17:22	MD
1,2-Dichloroethane	BRL	4.5		ug/Kg-dry	202023	1	01/22/2015 17:22	MD
1,2-Dichloropropane	BRL	4.5		ug/Kg-dry	202023	1	01/22/2015 17:22	MD
1,3-Dichlorobenzene	BRL	4.5		ug/Kg-dry	202023	1	01/22/2015 17:22	MD
1,4-Dichlorobenzene	BRL	4.5		ug/Kg-dry	202023	1	01/22/2015 17:22	MD
2-Butanone	BRL	45		ug/Kg-dry	202023	1	01/22/2015 17:22	MD
2-Hexanone	BRL	9.1		ug/Kg-dry	202023	1	01/22/2015 17:22	MD
4-Methyl-2-pentanone	BRL	9.1		ug/Kg-dry	202023	1	01/22/2015 17:22	MD
Acetone	BRL	91		ug/Kg-dry	202023	1	01/22/2015 17:22	MD
Benzene	BRL	4.5		ug/Kg-dry	202023	1	01/22/2015 17:22	MD
Bromodichloromethane	BRL	4.5		ug/Kg-dry	202023	1	01/22/2015 17:22	MD
Bromoform	BRL	4.5		ug/Kg-dry	202023	1	01/22/2015 17:22	MD
Bromomethane	BRL	4.5		ug/Kg-dry	202023	1	01/22/2015 17:22	MD
Carbon disulfide	BRL	9.1		ug/Kg-dry	202023	1	01/22/2015 17:22	MD
Carbon tetrachloride	BRL	4.5		ug/Kg-dry	202023	1	01/22/2015 17:22	MD
Chlorobenzene	BRL	4.5		ug/Kg-dry	202023	1	01/22/2015 17:22	MD
Chloroethane	BRL	9.1		ug/Kg-dry	202023	1	01/22/2015 17:22	MD
Chloroform	BRL	4.5		ug/Kg-dry	202023	1	01/22/2015 17:22	MD
Chloromethane	BRL	9.1		ug/Kg-dry	202023	1	01/22/2015 17:22	MD
cis-1,2-Dichloroethene	BRL	4.5		ug/Kg-dry	202023	1	01/22/2015 17:22	MD
cis-1,3-Dichloropropene	BRL	4.5		ug/Kg-dry	202023	1	01/22/2015 17:22	MD
Cyclohexane	BRL	4.5		ug/Kg-dry	202023	1	01/22/2015 17:22	MD
Dibromochloromethane	BRL	4.5		ug/Kg-dry	202023	1	01/22/2015 17:22	MD
Dichlorodifluoromethane	BRL	9.1		ug/Kg-dry	202023	1	01/22/2015 17:22	MD
Ethylbenzene	BRL	4.5		ug/Kg-dry	202023	1	01/22/2015 17:22	MD
Freon-113	BRL	9.1		ug/Kg-dry	202023	1	01/22/2015 17:22	MD
Isopropylbenzene	BRL	4.5		ug/Kg-dry	202023	1	01/22/2015 17:22	MD
m,p-Xylene	BRL	4.5		ug/Kg-dry	202023	1	01/22/2015 17:22	MD
Methyl acetate	BRL	4.5		ug/Kg-dry	202023	1	01/22/2015 17:22	MD
Methyl tert-butyl ether	BRL	4.5		ug/Kg-dry	202023	1	01/22/2015 17:22	MD
Methylcyclohexane	BRL	4.5		ug/Kg-dry	202023	1	01/22/2015 17:22	MD
Methylene chloride	BRL	18		ug/Kg-dry	202023	1	01/22/2015 17:22	MD
o-Xylene	BRL	4.5		ug/Kg-dry	202023	1	01/22/2015 17:22	MD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: SB-142 (26-28)
Project Name: Lafarge EP	Collection Date: 1/14/2015 10:20:00 AM
Lab ID: 1501B59-048	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5035)				
Styrene	BRL	4.5		ug/Kg-dry	202023	1	01/22/2015 17:22	MD
Tetrachloroethene	BRL	4.5		ug/Kg-dry	202023	1	01/22/2015 17:22	MD
Toluene	BRL	4.5		ug/Kg-dry	202023	1	01/22/2015 17:22	MD
trans-1,2-Dichloroethene	BRL	4.5		ug/Kg-dry	202023	1	01/22/2015 17:22	MD
trans-1,3-Dichloropropene	BRL	4.5		ug/Kg-dry	202023	1	01/22/2015 17:22	MD
Trichloroethene	BRL	4.5		ug/Kg-dry	202023	1	01/22/2015 17:22	MD
Trichlorofluoromethane	BRL	4.5		ug/Kg-dry	202023	1	01/22/2015 17:22	MD
Vinyl chloride	BRL	9.1		ug/Kg-dry	202023	1	01/22/2015 17:22	MD
Surr: 4-Bromofluorobenzene	87.5	70-128		%REC	202023	1	01/22/2015 17:22	MD
Surr: Dibromofluoromethane	85.8	78.2-128		%REC	202023	1	01/22/2015 17:22	MD
Surr: Toluene-d8	85.4	76.5-116		%REC	202023	1	01/22/2015 17:22	MD
METALS, TOTAL SW6010C				(SW3050B)				
Lead	19.9	5.42		mg/Kg-dry	202053	1	01/23/2015 01:29	JL
PERCENT MOISTURE D2216								
Percent Moisture	16.0	0		wt%	R284187	1	01/22/2015 12:00	PF

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: SB-142 (1-3)
Project Name: Lafarge EP	Collection Date: 1/14/2015 9:45:00 AM
Lab ID: 1501B59-049	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	6.5		ug/Kg-dry	202023	1	01/22/2015 17:47	MD
1,1,2,2-Tetrachloroethane	BRL	6.5		ug/Kg-dry	202023	1	01/22/2015 17:47	MD
1,1,2-Trichloroethane	BRL	6.5		ug/Kg-dry	202023	1	01/22/2015 17:47	MD
1,1-Dichloroethane	BRL	6.5		ug/Kg-dry	202023	1	01/22/2015 17:47	MD
1,1-Dichloroethene	BRL	6.5		ug/Kg-dry	202023	1	01/22/2015 17:47	MD
1,2,4-Trichlorobenzene	BRL	6.5		ug/Kg-dry	202023	1	01/22/2015 17:47	MD
1,2-Dibromo-3-chloropropane	BRL	6.5		ug/Kg-dry	202023	1	01/22/2015 17:47	MD
1,2-Dibromoethane	BRL	6.5		ug/Kg-dry	202023	1	01/22/2015 17:47	MD
1,2-Dichlorobenzene	BRL	6.5		ug/Kg-dry	202023	1	01/22/2015 17:47	MD
1,2-Dichloroethane	BRL	6.5		ug/Kg-dry	202023	1	01/22/2015 17:47	MD
1,2-Dichloropropane	BRL	6.5		ug/Kg-dry	202023	1	01/22/2015 17:47	MD
1,3-Dichlorobenzene	BRL	6.5		ug/Kg-dry	202023	1	01/22/2015 17:47	MD
1,4-Dichlorobenzene	BRL	6.5		ug/Kg-dry	202023	1	01/22/2015 17:47	MD
2-Butanone	BRL	65		ug/Kg-dry	202023	1	01/22/2015 17:47	MD
2-Hexanone	BRL	13		ug/Kg-dry	202023	1	01/22/2015 17:47	MD
4-Methyl-2-pentanone	BRL	13		ug/Kg-dry	202023	1	01/22/2015 17:47	MD
Acetone	BRL	130		ug/Kg-dry	202023	1	01/22/2015 17:47	MD
Benzene	BRL	6.5		ug/Kg-dry	202023	1	01/22/2015 17:47	MD
Bromodichloromethane	BRL	6.5		ug/Kg-dry	202023	1	01/22/2015 17:47	MD
Bromoform	BRL	6.5		ug/Kg-dry	202023	1	01/22/2015 17:47	MD
Bromomethane	BRL	6.5		ug/Kg-dry	202023	1	01/22/2015 17:47	MD
Carbon disulfide	BRL	13		ug/Kg-dry	202023	1	01/22/2015 17:47	MD
Carbon tetrachloride	BRL	6.5		ug/Kg-dry	202023	1	01/22/2015 17:47	MD
Chlorobenzene	BRL	6.5		ug/Kg-dry	202023	1	01/22/2015 17:47	MD
Chloroethane	BRL	13		ug/Kg-dry	202023	1	01/22/2015 17:47	MD
Chloroform	BRL	6.5		ug/Kg-dry	202023	1	01/22/2015 17:47	MD
Chloromethane	BRL	13		ug/Kg-dry	202023	1	01/22/2015 17:47	MD
cis-1,2-Dichloroethene	BRL	6.5		ug/Kg-dry	202023	1	01/22/2015 17:47	MD
cis-1,3-Dichloropropene	BRL	6.5		ug/Kg-dry	202023	1	01/22/2015 17:47	MD
Cyclohexane	BRL	6.5		ug/Kg-dry	202023	1	01/22/2015 17:47	MD
Dibromochloromethane	BRL	6.5		ug/Kg-dry	202023	1	01/22/2015 17:47	MD
Dichlorodifluoromethane	BRL	13		ug/Kg-dry	202023	1	01/22/2015 17:47	MD
Ethylbenzene	BRL	6.5		ug/Kg-dry	202023	1	01/22/2015 17:47	MD
Freon-113	BRL	13		ug/Kg-dry	202023	1	01/22/2015 17:47	MD
Isopropylbenzene	BRL	6.5		ug/Kg-dry	202023	1	01/22/2015 17:47	MD
m,p-Xylene	BRL	6.5		ug/Kg-dry	202023	1	01/22/2015 17:47	MD
Methyl acetate	BRL	6.5		ug/Kg-dry	202023	1	01/22/2015 17:47	MD
Methyl tert-butyl ether	BRL	6.5		ug/Kg-dry	202023	1	01/22/2015 17:47	MD
Methylcyclohexane	BRL	6.5		ug/Kg-dry	202023	1	01/22/2015 17:47	MD
Methylene chloride	BRL	26		ug/Kg-dry	202023	1	01/22/2015 17:47	MD
o-Xylene	BRL	6.5		ug/Kg-dry	202023	1	01/22/2015 17:47	MD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: SB-142 (1-3)
Project Name: Lafarge EP	Collection Date: 1/14/2015 9:45:00 AM
Lab ID: 1501B59-049	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5035)			
Styrene	BRL	6.5		ug/Kg-dry	202023	1	01/22/2015 17:47	MD
Tetrachloroethene	BRL	6.5		ug/Kg-dry	202023	1	01/22/2015 17:47	MD
Toluene	BRL	6.5		ug/Kg-dry	202023	1	01/22/2015 17:47	MD
trans-1,2-Dichloroethene	BRL	6.5		ug/Kg-dry	202023	1	01/22/2015 17:47	MD
trans-1,3-Dichloropropene	BRL	6.5		ug/Kg-dry	202023	1	01/22/2015 17:47	MD
Trichloroethene	10	6.5		ug/Kg-dry	202023	1	01/22/2015 17:47	MD
Trichlorofluoromethane	BRL	6.5		ug/Kg-dry	202023	1	01/22/2015 17:47	MD
Vinyl chloride	BRL	13		ug/Kg-dry	202023	1	01/22/2015 17:47	MD
Surr: 4-Bromofluorobenzene	66.3	70-128	S	%REC	202023	1	01/22/2015 17:47	MD
Surr: Dibromofluoromethane	108	78.2-128		%REC	202023	1	01/22/2015 17:47	MD
Surr: Toluene-d8	77.4	76.5-116		%REC	202023	1	01/22/2015 17:47	MD
METALS, TOTAL SW6010C					(SW3050B)			
Lead	339	6.40		mg/Kg-dry	202053	1	01/23/2015 00:46	JL
PERCENT MOISTURE D2216								
Percent Moisture	22.1	0		wt%	R284187	1	01/22/2015 12:00	PF

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 4-Feb-15

Client: Arcadis	Client Sample ID: SB-142 (8-10)
Project Name: Lafarge EP	Collection Date: 1/14/2015 9:50:00 AM
Lab ID: 1501B59-050	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					(SW3050B)			
Lead	21.2	5.91		mg/Kg-dry	202053	1	01/23/2015 01:33	JL
PERCENT MOISTURE D2216								
Percent Moisture	17.9	0		wt%	R284187	1	01/22/2015 12:00	PF

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: TRIP BLANK
Project Name: Lafarge EP	Collection Date: 1/14/2015
Lab ID: 1501B59-051	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	201912	1	01/20/2015 23:51	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	201912	1	01/20/2015 23:51	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	201912	1	01/20/2015 23:51	NP
1,1-Dichloroethane	BRL	5.0		ug/L	201912	1	01/20/2015 23:51	NP
1,1-Dichloroethene	BRL	5.0		ug/L	201912	1	01/20/2015 23:51	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	201912	1	01/20/2015 23:51	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	201912	1	01/20/2015 23:51	NP
1,2-Dibromoethane	BRL	5.0		ug/L	201912	1	01/20/2015 23:51	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	201912	1	01/20/2015 23:51	NP
1,2-Dichloroethane	BRL	5.0		ug/L	201912	1	01/20/2015 23:51	NP
1,2-Dichloropropane	BRL	5.0		ug/L	201912	1	01/20/2015 23:51	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	201912	1	01/20/2015 23:51	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	201912	1	01/20/2015 23:51	NP
2-Butanone	BRL	50		ug/L	201912	1	01/20/2015 23:51	NP
2-Hexanone	BRL	10		ug/L	201912	1	01/20/2015 23:51	NP
4-Methyl-2-pentanone	BRL	10		ug/L	201912	1	01/20/2015 23:51	NP
Acetone	BRL	50		ug/L	201912	1	01/20/2015 23:51	NP
Benzene	BRL	5.0		ug/L	201912	1	01/20/2015 23:51	NP
Bromodichloromethane	BRL	5.0		ug/L	201912	1	01/20/2015 23:51	NP
Bromoform	BRL	5.0		ug/L	201912	1	01/20/2015 23:51	NP
Bromomethane	BRL	5.0		ug/L	201912	1	01/20/2015 23:51	NP
Carbon disulfide	BRL	5.0		ug/L	201912	1	01/20/2015 23:51	NP
Carbon tetrachloride	BRL	5.0		ug/L	201912	1	01/20/2015 23:51	NP
Chlorobenzene	BRL	5.0		ug/L	201912	1	01/20/2015 23:51	NP
Chloroethane	BRL	10		ug/L	201912	1	01/20/2015 23:51	NP
Chloroform	BRL	5.0		ug/L	201912	1	01/20/2015 23:51	NP
Chloromethane	BRL	10		ug/L	201912	1	01/20/2015 23:51	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	201912	1	01/20/2015 23:51	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	201912	1	01/20/2015 23:51	NP
Cyclohexane	BRL	5.0		ug/L	201912	1	01/20/2015 23:51	NP
Dibromochloromethane	BRL	5.0		ug/L	201912	1	01/20/2015 23:51	NP
Dichlorodifluoromethane	BRL	10		ug/L	201912	1	01/20/2015 23:51	NP
Ethylbenzene	BRL	5.0		ug/L	201912	1	01/20/2015 23:51	NP
Freon-113	BRL	10		ug/L	201912	1	01/20/2015 23:51	NP
Isopropylbenzene	BRL	5.0		ug/L	201912	1	01/20/2015 23:51	NP
m,p-Xylene	BRL	5.0		ug/L	201912	1	01/20/2015 23:51	NP
Methyl acetate	BRL	5.0		ug/L	201912	1	01/20/2015 23:51	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	201912	1	01/20/2015 23:51	NP
Methylcyclohexane	BRL	5.0		ug/L	201912	1	01/20/2015 23:51	NP
Methylene chloride	BRL	5.0		ug/L	201912	1	01/20/2015 23:51	NP
o-Xylene	BRL	5.0		ug/L	201912	1	01/20/2015 23:51	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: TRIP BLANK
Project Name: Lafarge EP	Collection Date: 1/14/2015
Lab ID: 1501B59-051	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5030B)			
Styrene	BRL	5.0		ug/L	201912	1	01/20/2015 23:51	NP
Tetrachloroethene	BRL	5.0		ug/L	201912	1	01/20/2015 23:51	NP
Toluene	BRL	5.0		ug/L	201912	1	01/20/2015 23:51	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	201912	1	01/20/2015 23:51	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	201912	1	01/20/2015 23:51	NP
Trichloroethene	BRL	5.0		ug/L	201912	1	01/20/2015 23:51	NP
Trichlorofluoromethane	BRL	5.0		ug/L	201912	1	01/20/2015 23:51	NP
Vinyl chloride	BRL	2.0		ug/L	201912	1	01/20/2015 23:51	NP
Surr: 4-Bromofluorobenzene	83.6	70.6-123		%REC	201912	1	01/20/2015 23:51	NP
Surr: Dibromofluoromethane	112	78.7-124		%REC	201912	1	01/20/2015 23:51	NP
Surr: Toluene-d8	99.7	81.3-120		%REC	201912	1	01/20/2015 23:51	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: SB-143 (22-24)
Project Name: Lafarge EP	Collection Date: 1/14/2015 11:25:00 AM
Lab ID: 1501B59-052	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	4.1		ug/Kg-dry	202367	1	01/28/2015 21:09	MD
1,1,2,2-Tetrachloroethane	BRL	4.1		ug/Kg-dry	202367	1	01/28/2015 21:09	MD
1,1,2-Trichloroethane	BRL	4.1		ug/Kg-dry	202367	1	01/28/2015 21:09	MD
1,1-Dichloroethane	BRL	4.1		ug/Kg-dry	202367	1	01/28/2015 21:09	MD
1,1-Dichloroethene	BRL	4.1		ug/Kg-dry	202367	1	01/28/2015 21:09	MD
1,2,4-Trichlorobenzene	BRL	4.1		ug/Kg-dry	202367	1	01/28/2015 21:09	MD
1,2-Dibromo-3-chloropropane	BRL	4.1		ug/Kg-dry	202367	1	01/28/2015 21:09	MD
1,2-Dibromoethane	BRL	4.1		ug/Kg-dry	202367	1	01/28/2015 21:09	MD
1,2-Dichlorobenzene	BRL	4.1		ug/Kg-dry	202367	1	01/28/2015 21:09	MD
1,2-Dichloroethane	BRL	4.1		ug/Kg-dry	202367	1	01/28/2015 21:09	MD
1,2-Dichloropropane	BRL	4.1		ug/Kg-dry	202367	1	01/28/2015 21:09	MD
1,3-Dichlorobenzene	BRL	4.1		ug/Kg-dry	202367	1	01/28/2015 21:09	MD
1,4-Dichlorobenzene	BRL	4.1		ug/Kg-dry	202367	1	01/28/2015 21:09	MD
2-Butanone	BRL	41		ug/Kg-dry	202367	1	01/28/2015 21:09	MD
2-Hexanone	BRL	8.2		ug/Kg-dry	202367	1	01/28/2015 21:09	MD
4-Methyl-2-pentanone	BRL	8.2		ug/Kg-dry	202367	1	01/28/2015 21:09	MD
Acetone	BRL	82		ug/Kg-dry	202367	1	01/28/2015 21:09	MD
Benzene	BRL	4.1		ug/Kg-dry	202367	1	01/28/2015 21:09	MD
Bromodichloromethane	BRL	4.1		ug/Kg-dry	202367	1	01/28/2015 21:09	MD
Bromoform	BRL	4.1		ug/Kg-dry	202367	1	01/28/2015 21:09	MD
Bromomethane	BRL	4.1		ug/Kg-dry	202367	1	01/28/2015 21:09	MD
Carbon disulfide	BRL	8.2		ug/Kg-dry	202367	1	01/28/2015 21:09	MD
Carbon tetrachloride	BRL	4.1		ug/Kg-dry	202367	1	01/28/2015 21:09	MD
Chlorobenzene	BRL	4.1		ug/Kg-dry	202367	1	01/28/2015 21:09	MD
Chloroethane	BRL	8.2		ug/Kg-dry	202367	1	01/28/2015 21:09	MD
Chloroform	BRL	4.1		ug/Kg-dry	202367	1	01/28/2015 21:09	MD
Chloromethane	BRL	8.2		ug/Kg-dry	202367	1	01/28/2015 21:09	MD
cis-1,2-Dichloroethene	BRL	4.1		ug/Kg-dry	202367	1	01/28/2015 21:09	MD
cis-1,3-Dichloropropene	BRL	4.1		ug/Kg-dry	202367	1	01/28/2015 21:09	MD
Cyclohexane	BRL	4.1		ug/Kg-dry	202367	1	01/28/2015 21:09	MD
Dibromochloromethane	BRL	4.1		ug/Kg-dry	202367	1	01/28/2015 21:09	MD
Dichlorodifluoromethane	BRL	8.2		ug/Kg-dry	202367	1	01/28/2015 21:09	MD
Ethylbenzene	BRL	4.1		ug/Kg-dry	202367	1	01/28/2015 21:09	MD
Freon-113	BRL	8.2		ug/Kg-dry	202367	1	01/28/2015 21:09	MD
Isopropylbenzene	BRL	4.1		ug/Kg-dry	202367	1	01/28/2015 21:09	MD
m,p-Xylene	BRL	4.1		ug/Kg-dry	202367	1	01/28/2015 21:09	MD
Methyl acetate	BRL	4.1		ug/Kg-dry	202367	1	01/28/2015 21:09	MD
Methyl tert-butyl ether	BRL	4.1		ug/Kg-dry	202367	1	01/28/2015 21:09	MD
Methylcyclohexane	BRL	4.1		ug/Kg-dry	202367	1	01/28/2015 21:09	MD
Methylene chloride	BRL	16		ug/Kg-dry	202367	1	01/28/2015 21:09	MD
o-Xylene	BRL	4.1		ug/Kg-dry	202367	1	01/28/2015 21:09	MD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: SB-143 (22-24)
Project Name: Lafarge EP	Collection Date: 1/14/2015 11:25:00 AM
Lab ID: 1501B59-052	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5035)			
Styrene	BRL	4.1		ug/Kg-dry	202367	1	01/28/2015 21:09	MD
Tetrachloroethene	BRL	4.1		ug/Kg-dry	202367	1	01/28/2015 21:09	MD
Toluene	BRL	4.1		ug/Kg-dry	202367	1	01/28/2015 21:09	MD
trans-1,2-Dichloroethene	BRL	4.1		ug/Kg-dry	202367	1	01/28/2015 21:09	MD
trans-1,3-Dichloropropene	BRL	4.1		ug/Kg-dry	202367	1	01/28/2015 21:09	MD
Trichloroethene	BRL	4.1		ug/Kg-dry	202367	1	01/28/2015 21:09	MD
Trichlorofluoromethane	BRL	4.1		ug/Kg-dry	202367	1	01/28/2015 21:09	MD
Vinyl chloride	BRL	8.2		ug/Kg-dry	202367	1	01/28/2015 21:09	MD
Surr: 4-Bromofluorobenzene	89.2	70-128		%REC	202367	1	01/28/2015 21:09	MD
Surr: Dibromofluoromethane	89.6	78.2-128		%REC	202367	1	01/28/2015 21:09	MD
Surr: Toluene-d8	85.7	76.5-116		%REC	202367	1	01/28/2015 21:09	MD
PERCENT MOISTURE D2216								
Percent Moisture	23.8	0		wt%	R284931	1	02/02/2015 10:00	SG

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Arcadis

Work Order Number 1501B59

Checklist completed by [Signature] Date 1/16/15

Carrier name: FedEx UPS Courier Client US Mail Other

Shipping container/cooler in good condition? Yes No Not Present

Custody seals intact on shipping container/cooler? Yes No Not Present

Custody seals intact on sample bottles? Yes No Not Present

Container/Temp Blank temperature in compliance? (0°≤6°C)* Yes No

Cooler #1 3.4°C Cooler #2 3.5°C Cooler #3 3.5°C Cooler #4 3.4°C Cooler #5 Cooler #6

Chain of custody present? Yes No

Chain of custody signed when relinquished and received? Yes No

Chain of custody agrees with sample labels? Yes No

Samples in proper container/bottle? Yes No

Sample containers intact? Yes No

Sufficient sample volume for indicated test? Yes No

All samples received within holding time? Yes No

Was TAT marked on the COC? Yes No

Proceed with Standard TAT as per project history? Yes No Not Applicable

Water - VOA vials have zero headspace? No VOA vials submitted Yes No

Water - pH acceptable upon receipt? Yes No Not Applicable

Sample Condition: Good Adjusted? Other(Explain) Checked by

(For diffusive samples or AIHA lead) Is a known blank included? Yes No

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

Client: Arcadis
 Project Name: Lafarge EP
 Workorder: 1501B59

ANALYTICAL QC SUMMARY REPORT

BatchID: 201788

Sample ID: MB-201788	Client ID:	Units: ug/Kg	Prep Date: 01/15/2015	Run No: 283752							
Sample Type: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 201788	Analysis Date: 01/15/2015	Seq No: 6014676							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
2-Butanone	BRL	50									
2-Hexanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	100									
Benzene	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon disulfide	BRL	10									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									
Chloroform	BRL	5.0									
Chloromethane	BRL	10									

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
 Project Name: Lafarge EP
 Workorder: 1501B59

ANALYTICAL QC SUMMARY REPORT

BatchID: 201788

Sample ID: MB-201788	Client ID:	Units: ug/Kg	Prep Date: 01/15/2015	Run No: 283752							
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 201788	Analysis Date: 01/15/2015	Seq No: 6014676							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	20									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	10									
Surr: 4-Bromofluorobenzene	51.09	0	50.00		102	70	128				
Surr: Dibromofluoromethane	50.81	0	50.00		102	78.2	128				
Surr: Toluene-d8	48.62	0	50.00		97.2	76.5	116				

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
Project Name: Lafarge EP
Workorder: 1501B59

ANALYTICAL QC SUMMARY REPORT

BatchID: 201788

Sample ID: LCS-201788	Client ID:	Units: ug/Kg	Prep Date: 01/15/2015	Run No: 283752							
SampleType: LCS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 201788	Analysis Date: 01/15/2015	Seq No: 6014668							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	50.49	5.0	50.00		101	69.9	145				
Benzene	43.13	5.0	50.00		86.3	72.3	130				
Chlorobenzene	42.76	5.0	50.00		85.5	69	130				
Toluene	42.07	5.0	50.00		84.1	71.1	130				
Trichloroethene	46.27	5.0	50.00		92.5	71.7	136				
Surr: 4-Bromofluorobenzene	50.94	0	50.00		102	70	128				
Surr: Dibromofluoromethane	51.00	0	50.00		102	78.2	128				
Surr: Toluene-d8	48.47	0	50.00		96.9	76.5	116				

Sample ID: 1501A76-002AMS	Client ID:	Units: ug/Kg-dry	Prep Date: 01/15/2015	Run No: 283752							
SampleType: MS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 201788	Analysis Date: 01/15/2015	Seq No: 6014670							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	58.75	5.8	58.36		101	56.6	151				
Benzene	48.30	5.8	58.36		82.8	70.4	130				
Chlorobenzene	48.80	5.8	58.36		83.6	67.5	132				
Toluene	48.47	5.8	58.36		83.1	70.4	130				
Trichloroethene	52.29	5.8	58.36		89.6	70.1	137				
Surr: 4-Bromofluorobenzene	61.52	0	58.36		105	70	128				
Surr: Dibromofluoromethane	60.26	0	58.36		103	78.2	128				
Surr: Toluene-d8	56.66	0	58.36		97.1	76.5	116				

Sample ID: 1501A76-002AMSD	Client ID:	Units: ug/Kg-dry	Prep Date: 01/15/2015	Run No: 283752							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 201788	Analysis Date: 01/15/2015	Seq No: 6014672							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	57.00	5.8	58.36		97.7	56.6	151	58.75	3.02	20.4	
Benzene	48.33	5.8	58.36		82.8	70.4	130	48.30	0.072	16.9	

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Arcadis
 Project Name: Lafarge EP
 Workorder: 1501B59

ANALYTICAL QC SUMMARY REPORT

BatchID: 201788

Sample ID: 1501A76-002AMSD	Client ID:	Units: ug/Kg-dry	Prep Date: 01/15/2015	Run No: 283752							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 201788	Analysis Date: 01/15/2015	Seq No: 6014672							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chlorobenzene	49.61	5.8	58.36		85.0	67.5	132	48.80	1.66	14.6	
Toluene	47.49	5.8	58.36		81.4	70.4	130	48.47	2.04	16.6	
Trichloroethene	51.28	5.8	58.36		87.9	70.1	137	52.29	1.94	17	
Surr: 4-Bromofluorobenzene	60.27	0	58.36		103	70	128	61.52	0	0	
Surr: Dibromofluoromethane	58.83	0	58.36		101	78.2	128	60.26	0	0	
Surr: Toluene-d8	56.26	0	58.36		96.4	76.5	116	56.66	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
 Project Name: Lafarge EP
 Workorder: 1501B59

ANALYTICAL QC SUMMARY REPORT

BatchID: 201833

Sample ID: MB-201833	Client ID:	Units: ug/Kg	Prep Date: 01/16/2015	Run No: 283766							
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 201833	Analysis Date: 01/16/2015	Seq No: 6016082							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
2-Butanone	BRL	50									
2-Hexanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	100									
Benzene	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon disulfide	BRL	10									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									
Chloroform	BRL	5.0									
Chloromethane	BRL	10									

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
 Project Name: Lafarge EP
 Workorder: 1501B59

ANALYTICAL QC SUMMARY REPORT

BatchID: 201833

Sample ID: MB-201833	Client ID:	Units: ug/Kg	Prep Date: 01/16/2015	Run No: 283766							
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 201833	Analysis Date: 01/16/2015	Seq No: 6016082							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	20									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	10									
Surr: 4-Bromofluorobenzene	42.70	0	50.00		85.4	70	128				
Surr: Dibromofluoromethane	45.53	0	50.00		91.1	78.2	128				
Surr: Toluene-d8	44.57	0	50.00		89.1	76.5	116				

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
 Project Name: Lafarge EP
 Workorder: 1501B59

ANALYTICAL QC SUMMARY REPORT

BatchID: 201833

Sample ID: LCS-201833	Client ID:	Units: ug/Kg	Prep Date: 01/16/2015	Run No: 283766							
SampleType: LCS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 201833	Analysis Date: 01/16/2015	Seq No: 6016073							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	50.63	5.0	50.00		101	69.9	145				
Benzene	49.44	5.0	50.00		98.9	72.3	130				
Chlorobenzene	51.98	5.0	50.00		104	69	130				
Toluene	48.30	5.0	50.00		96.6	71.1	130				
Trichloroethene	52.43	5.0	50.00		105	71.7	136				
Surr: 4-Bromofluorobenzene	43.43	0	50.00		86.9	70	128				
Surr: Dibromofluoromethane	44.45	0	50.00		88.9	78.2	128				
Surr: Toluene-d8	43.10	0	50.00		86.2	76.5	116				

Sample ID: 1501A76-009AMS	Client ID:	Units: ug/Kg-dry	Prep Date: 01/16/2015	Run No: 283857							
SampleType: MS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 201833	Analysis Date: 01/19/2015	Seq No: 6019378							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	28.41	4.0	40.16		70.7	56.6	151				
Benzene	37.29	4.0	40.16		92.9	70.4	130				
Chlorobenzene	39.25	4.0	40.16		97.7	67.5	132				
Toluene	36.66	4.0	40.16		91.3	70.4	130				
Trichloroethene	39.48	4.0	40.16		98.3	70.1	137				
Surr: 4-Bromofluorobenzene	37.97	0	40.16		94.5	70	128				
Surr: Dibromofluoromethane	34.76	0	40.16		86.5	78.2	128				
Surr: Toluene-d8	34.96	0	40.16		87.1	76.5	116				

Sample ID: 1501A76-009AMSD	Client ID:	Units: ug/Kg-dry	Prep Date: 01/16/2015	Run No: 283857							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 201833	Analysis Date: 01/19/2015	Seq No: 6019379							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	27.70	4.0	40.16		69.0	56.6	151	28.41	2.52	20.4	
Benzene	37.38	4.0	40.16		93.1	70.4	130	37.29	0.237	16.9	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
 Project Name: Lafarge EP
 Workorder: 1501B59

ANALYTICAL QC SUMMARY REPORT

BatchID: 201833

Sample ID: 1501A76-009AMSD	Client ID:	Units: ug/Kg-dry	Prep Date: 01/16/2015	Run No: 283857							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 201833	Analysis Date: 01/19/2015	Seq No: 6019379							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chlorobenzene	38.61	4.0	40.16		96.1	67.5	132	39.25	1.63	14.6	
Toluene	35.82	4.0	40.16		89.2	70.4	130	36.66	2.30	16.6	
Trichloroethene	40.73	4.0	40.16		101	70.1	137	39.48	3.12	17	
Surr: 4-Bromofluorobenzene	35.52	0	40.16		88.4	70	128	37.97	0	0	
Surr: Dibromofluoromethane	35.08	0	40.16		87.4	78.2	128	34.76	0	0	
Surr: Toluene-d8	35.52	0	40.16		88.4	76.5	116	34.96	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
Project Name: Lafarge EP
Workorder: 1501B59

ANALYTICAL QC SUMMARY REPORT

BatchID: 201912

Sample ID: MB-201912	Client ID:	Units: ug/L	Prep Date: 01/20/2015	Run No: 283950							
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 201912	Analysis Date: 01/20/2015	Seq No: 6021300							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
2-Butanone	BRL	50									
2-Hexanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	50									
Benzene	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon disulfide	BRL	5.0									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									
Chloroform	BRL	5.0									
Chloromethane	BRL	10									

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
 Project Name: Lafarge EP
 Workorder: 1501B59

ANALYTICAL QC SUMMARY REPORT

BatchID: 201912

Sample ID: MB-201912	Client ID:	Units: ug/L	Prep Date: 01/20/2015	Run No: 283950							
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 201912	Analysis Date: 01/20/2015	Seq No: 6021300							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	5.0									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	2.0									
Surr: 4-Bromofluorobenzene	40.10	0	50.00		80.2	70.6	123				
Surr: Dibromofluoromethane	53.55	0	50.00		107	78.7	124				
Surr: Toluene-d8	47.86	0	50.00		95.7	81.3	120				

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
 Project Name: Lafarge EP
 Workorder: 1501B59

ANALYTICAL QC SUMMARY REPORT

BatchID: 201912

Sample ID: LCS-201912	Client ID:	Units: ug/L	Prep Date: 01/20/2015	Run No: 283950							
SampleType: LCS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 201912	Analysis Date: 01/20/2015	Seq No: 6021299							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	50.41	5.0	50.00		101	64.2	137				
Benzene	49.47	5.0	50.00		98.9	72.8	128				
Chlorobenzene	46.98	5.0	50.00		94.0	72.3	126				
Toluene	48.82	5.0	50.00		97.6	74.9	127				
Trichloroethene	49.81	5.0	50.00		99.6	70.5	134				
Surr: 4-Bromofluorobenzene	41.59	0	50.00		83.2	70.6	123				
Surr: Dibromofluoromethane	51.39	0	50.00		103	78.7	124				
Surr: Toluene-d8	49.28	0	50.00		98.6	81.3	120				

Sample ID: 1501916-001AMS	Client ID:	Units: ug/L	Prep Date: 01/20/2015	Run No: 283950							
SampleType: MS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 201912	Analysis Date: 01/20/2015	Seq No: 6021302							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	572100	50000	500000		114	60.5	156				
Benzene	514400	50000	500000		103	70	135				
Chlorobenzene	518800	50000	500000		104	70.5	132				
Toluene	548900	50000	500000	24300	105	70.5	137				
Trichloroethene	546300	50000	500000		109	71.8	139				
Surr: 4-Bromofluorobenzene	400300	0	500000		80.1	70.6	123				
Surr: Dibromofluoromethane	516000	0	500000		103	78.7	124				
Surr: Toluene-d8	461900	0	500000		92.4	81.3	120				

Sample ID: 1501916-001AMSD	Client ID:	Units: ug/L	Prep Date: 01/20/2015	Run No: 283950							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 201912	Analysis Date: 01/20/2015	Seq No: 6021304							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	617100	50000	500000		123	60.5	156	572100	7.57	20	
Benzene	495700	50000	500000		99.1	70	135	514400	3.70	20	

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Arcadis
 Project Name: Lafarge EP
 Workorder: 1501B59

ANALYTICAL QC SUMMARY REPORT

BatchID: 201912

Sample ID: 1501916-001AMSD	Client ID:	Units: ug/L	Prep Date: 01/20/2015	Run No: 283950							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 201912	Analysis Date: 01/20/2015	Seq No: 6021304							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chlorobenzene	512800	50000	500000		103	70.5	132	518800	1.16	20	
Toluene	562800	50000	500000	24300	108	70.5	137	548900	2.50	20	
Trichloroethene	544500	50000	500000		109	71.8	139	546300	0.330	20	
Surr: 4-Bromofluorobenzene	405700	0	500000		81.1	70.6	123	400300	0	0	
Surr: Dibromofluoromethane	505600	0	500000		101	78.7	124	516000	0	0	
Surr: Toluene-d8	462500	0	500000		92.5	81.3	120	461900	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
 Project Name: Lafarge EP
 Workorder: 1501B59

ANALYTICAL QC SUMMARY REPORT

BatchID: 201935

Sample ID: MB-201935	Client ID:	Units: ug/Kg	Prep Date: 01/20/2015	Run No: 283979							
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 201935	Analysis Date: 01/20/2015	Seq No: 6020325							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
2-Butanone	BRL	50									
2-Hexanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	100									
Benzene	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon disulfide	BRL	10									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									
Chloroform	BRL	5.0									
Chloromethane	BRL	10									

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
 Project Name: Lafarge EP
 Workorder: 1501B59

ANALYTICAL QC SUMMARY REPORT

BatchID: 201935

Sample ID: MB-201935	Client ID:	Units: ug/Kg	Prep Date: 01/20/2015	Run No: 283979							
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 201935	Analysis Date: 01/20/2015	Seq No: 6020325							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	20									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	10									
Surr: 4-Bromofluorobenzene	45.12	0	50.00		90.2	70	128				
Surr: Dibromofluoromethane	44.33	0	50.00		88.7	78.2	128				
Surr: Toluene-d8	41.43	0	50.00		82.9	76.5	116				

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
Project Name: Lafarge EP
Workorder: 1501B59

ANALYTICAL QC SUMMARY REPORT

BatchID: 201935

Sample ID: LCS-201935	Client ID:	Units: ug/Kg	Prep Date: 01/20/2015	Run No: 283979							
SampleType: LCS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 201935	Analysis Date: 01/20/2015	Seq No: 6020320							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	43.18	5.0	50.00		86.4	69.9	145				
Benzene	39.12	5.0	50.00		78.2	72.3	130				
Chlorobenzene	40.85	5.0	50.00		81.7	69	130				
Toluene	37.98	5.0	50.00		76.0	71.1	130				
Trichloroethene	42.98	5.0	50.00		86.0	71.7	136				
Surr: 4-Bromofluorobenzene	43.79	0	50.00		87.6	70	128				
Surr: Dibromofluoromethane	43.74	0	50.00		87.5	78.2	128				
Surr: Toluene-d8	41.79	0	50.00		83.6	76.5	116				

Sample ID: 1501C80-013EMS	Client ID:	Units: ug/Kg-dry	Prep Date: 01/20/2015	Run No: 284021							
SampleType: MS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 201935	Analysis Date: 01/21/2015	Seq No: 6022359							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	48.03	5.3	53.32		90.1	56.6	151				
Benzene	44.69	5.3	53.32		83.8	70.4	130				
Chlorobenzene	46.79	5.3	53.32		87.7	67.5	132				
Toluene	41.82	5.3	53.32		78.4	70.4	130				
Trichloroethene	49.55	5.3	53.32		92.9	70.1	137				
Surr: 4-Bromofluorobenzene	47.06	0	53.32		88.3	70	128				
Surr: Dibromofluoromethane	46.85	0	53.32		87.9	78.2	128				
Surr: Toluene-d8	43.61	0	53.32		81.8	76.5	116				

Sample ID: 1501C80-013EMSD	Client ID:	Units: ug/Kg-dry	Prep Date: 01/20/2015	Run No: 284021							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 201935	Analysis Date: 01/21/2015	Seq No: 6022360							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	51.74	5.3	53.32		97.0	56.6	151	48.03	7.42	20.4	
Benzene	44.52	5.3	53.32		83.5	70.4	130	44.69	0.383	16.9	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
 Project Name: Lafarge EP
 Workorder: 1501B59

ANALYTICAL QC SUMMARY REPORT

BatchID: 201935

Sample ID: 1501C80-013EMSD	Client ID:	Units: ug/Kg-dry	Prep Date: 01/20/2015	Run No: 284021							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 201935	Analysis Date: 01/21/2015	Seq No: 6022360							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chlorobenzene	46.85	5.3	53.32		87.9	67.5	132	46.79	0.137	14.6	
Toluene	42.56	5.3	53.32		79.8	70.4	130	41.82	1.77	16.6	
Trichloroethene	48.63	5.3	53.32		91.2	70.1	137	49.55	1.87	17	
Surr: 4-Bromofluorobenzene	48.94	0	53.32		91.8	70	128	47.06	0	0	
Surr: Dibromofluoromethane	47.71	0	53.32		89.5	78.2	128	46.85	0	0	
Surr: Toluene-d8	44.36	0	53.32		83.2	76.5	116	43.61	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
 Project Name: Lafarge EP
 Workorder: 1501B59

ANALYTICAL QC SUMMARY REPORT

BatchID: 201978

Sample ID: MB-201978	Client ID:	Units: ug/Kg	Prep Date: 01/21/2015	Run No: 284021							
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 201978	Analysis Date: 01/21/2015	Seq No: 6022361							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
2-Butanone	BRL	50									
2-Hexanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	100									
Benzene	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon disulfide	BRL	10									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									
Chloroform	BRL	5.0									
Chloromethane	BRL	10									

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
Project Name: Lafarge EP
Workorder: 1501B59

ANALYTICAL QC SUMMARY REPORT

BatchID: 201978

Sample ID: MB-201978	Client ID:	Units: ug/Kg	Prep Date: 01/21/2015	Run No: 284021							
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 201978	Analysis Date: 01/21/2015	Seq No: 6022361							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	20									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	10									
Surr: 4-Bromofluorobenzene	43.83	0	50.00		87.7	70	128				
Surr: Dibromofluoromethane	44.62	0	50.00		89.2	78.2	128				
Surr: Toluene-d8	41.19	0	50.00		82.4	76.5	116				

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
 Project Name: Lafarge EP
 Workorder: 1501B59

ANALYTICAL QC SUMMARY REPORT

BatchID: 201978

Sample ID: MB-201978	Client ID:	Units: ug/Kg	Prep Date: 01/21/2015	Run No: 284110							
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 201978	Analysis Date: 01/21/2015	Seq No: 6024498							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
2-Butanone	BRL	50									
2-Hexanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	100									
Benzene	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon disulfide	BRL	10									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									
Chloroform	BRL	5.0									
Chloromethane	BRL	10									

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
 Project Name: Lafarge EP
 Workorder: 1501B59

ANALYTICAL QC SUMMARY REPORT

BatchID: 201978

Sample ID: MB-201978	Client ID:	Units: ug/Kg	Prep Date: 01/21/2015	Run No: 284110							
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 201978	Analysis Date: 01/21/2015	Seq No: 6024498							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	20									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	10									
Surr: 4-Bromofluorobenzene	42.52	0	50.00		85.0	70	128				
Surr: Dibromofluoromethane	44.73	0	50.00		89.5	78.2	128				
Surr: Toluene-d8	40.94	0	50.00		81.9	76.5	116				

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
 Project Name: Lafarge EP
 Workorder: 1501B59

ANALYTICAL QC SUMMARY REPORT

BatchID: 201978

Sample ID: LCS-201978	Client ID:	Units: ug/Kg	Prep Date: 01/21/2015	Run No: 284021							
SampleType: LCS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 201978	Analysis Date: 01/21/2015	Seq No: 6022358							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	43.87	5.0	50.00		87.7	69.9	145				
Benzene	40.39	5.0	50.00		80.8	72.3	130				
Chlorobenzene	41.79	5.0	50.00		83.6	69	130				
Toluene	36.64	5.0	50.00		73.3	71.1	130				
Trichloroethene	44.01	5.0	50.00		88.0	71.7	136				
Surr: 4-Bromofluorobenzene	43.17	0	50.00		86.3	70	128				
Surr: Dibromofluoromethane	43.38	0	50.00		86.8	78.2	128				
Surr: Toluene-d8	40.70	0	50.00		81.4	76.5	116				

Sample ID: LCS-201978	Client ID:	Units: ug/Kg	Prep Date: 01/21/2015	Run No: 284213							
SampleType: LCS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 201978	Analysis Date: 01/22/2015	Seq No: 6025540							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	52.20	5.0	50.00		104	69.9	145				
Benzene	46.97	5.0	50.00		93.9	72.3	130				
Chlorobenzene	45.24	5.0	50.00		90.5	69	130				
Toluene	42.77	5.0	50.00		85.5	71.1	130				
Trichloroethene	51.04	5.0	50.00		102	71.7	136				
Surr: 4-Bromofluorobenzene	44.69	0	50.00		89.4	70	128				
Surr: Dibromofluoromethane	43.78	0	50.00		87.6	78.2	128				
Surr: Toluene-d8	41.94	0	50.00		83.9	76.5	116				

Sample ID: 1501B59-012AMS	Client ID: SB-146 (18-19)	Units: ug/Kg-dry	Prep Date: 01/21/2015	Run No: 284110							
SampleType: MS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 201978	Analysis Date: 01/21/2015	Seq No: 6024495							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	51.80	5.5	55.21		93.8	56.6	151				
Benzene	44.93	5.5	55.21		81.4	70.4	130				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
 Project Name: Lafarge EP
 Workorder: 1501B59

ANALYTICAL QC SUMMARY REPORT

BatchID: 201978

Sample ID: 1501B59-012AMS	Client ID: SB-146 (18-19)	Units: ug/Kg-dry	Prep Date: 01/21/2015	Run No: 284110							
SampleType: MS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 201978	Analysis Date: 01/21/2015	Seq No: 6024495							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chlorobenzene	45.41	5.5	55.21		82.2	67.5	132				
Toluene	41.31	5.5	55.21		74.8	70.4	130				
Trichloroethene	48.46	5.5	55.21		87.8	70.1	137				
Surr: 4-Bromofluorobenzene	47.74	0	55.21		86.5	70	128				
Surr: Dibromofluoromethane	50.13	0	55.21		90.8	78.2	128				
Surr: Toluene-d8	45.78	0	55.21		82.9	76.5	116				

Sample ID: 1501B59-012AMSD	Client ID: SB-146 (18-19)	Units: ug/Kg-dry	Prep Date: 01/21/2015	Run No: 284110							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 201978	Analysis Date: 01/21/2015	Seq No: 6024497							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	51.75	5.5	55.21		93.7	56.6	151	51.80	0.085	20.4	
Benzene	45.59	5.5	55.21		82.6	70.4	130	44.93	1.46	16.9	
Chlorobenzene	46.74	5.5	55.21		84.7	67.5	132	45.41	2.90	14.6	
Toluene	43.32	5.5	55.21		78.5	70.4	130	41.31	4.75	16.6	
Trichloroethene	50.34	5.5	55.21		91.2	70.1	137	48.46	3.80	17	
Surr: 4-Bromofluorobenzene	46.56	0	55.21		84.3	70	128	47.74	0	0	
Surr: Dibromofluoromethane	49.84	0	55.21		90.3	78.2	128	50.13	0	0	
Surr: Toluene-d8	46.24	0	55.21		83.8	76.5	116	45.78	0	0	

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Arcadis
Project Name: Lafarge EP
Workorder: 1501B59

ANALYTICAL QC SUMMARY REPORT

BatchID: 202023

Sample ID: MB-202023	Client ID:	Units: ug/Kg	Prep Date: 01/22/2015	Run No: 284213							
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 202023	Analysis Date: 01/22/2015	Seq No: 6025541							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
2-Butanone	BRL	50									
2-Hexanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	100									
Benzene	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon disulfide	BRL	10									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									
Chloroform	BRL	5.0									
Chloromethane	BRL	10									

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
 Project Name: Lafarge EP
 Workorder: 1501B59

ANALYTICAL QC SUMMARY REPORT

BatchID: 202023

Sample ID: MB-202023	Client ID:	Units: ug/Kg	Prep Date: 01/22/2015	Run No: 284213							
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 202023	Analysis Date: 01/22/2015	Seq No: 6025541							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	20									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	10									
Surr: 4-Bromofluorobenzene	43.60	0	50.00		87.2	70	128				
Surr: Dibromofluoromethane	41.93	0	50.00		83.9	78.2	128				
Surr: Toluene-d8	41.62	0	50.00		83.2	76.5	116				

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
Project Name: Lafarge EP
Workorder: 1501B59

ANALYTICAL QC SUMMARY REPORT

BatchID: 202023

Sample ID: LCS-202023	Client ID:	Units: ug/Kg	Prep Date: 01/22/2015	Run No: 284213							
SampleType: LCS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 202023	Analysis Date: 01/22/2015	Seq No: 6026143							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	45.72	5.0	50.00		91.4	69.9	145				
Benzene	44.95	5.0	50.00		89.9	72.3	130				
Chlorobenzene	43.36	5.0	50.00		86.7	69	130				
Toluene	42.00	5.0	50.00		84.0	71.1	130				
Trichloroethene	47.44	5.0	50.00		94.9	71.7	136				
Surr: 4-Bromofluorobenzene	44.84	0	50.00		89.7	70	128				
Surr: Dibromofluoromethane	43.05	0	50.00		86.1	78.2	128				
Surr: Toluene-d8	42.66	0	50.00		85.3	76.5	116				

Sample ID: 1501G68-001AMS	Client ID:	Units: ug/Kg-dry	Prep Date: 01/22/2015	Run No: 284213							
SampleType: MS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 202023	Analysis Date: 01/22/2015	Seq No: 6026144							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	49.53	6.1	60.67		81.6	56.6	151				
Benzene	49.44	6.1	60.67		81.5	70.4	130				
Chlorobenzene	48.96	6.1	60.67		80.7	67.5	132				
Toluene	46.26	6.1	60.67		76.2	70.4	130				
Trichloroethene	52.02	6.1	60.67		85.7	70.1	137				
Surr: 4-Bromofluorobenzene	54.25	0	60.67		89.4	70	128				
Surr: Dibromofluoromethane	50.64	0	60.67		83.5	78.2	128				
Surr: Toluene-d8	51.93	0	60.67		85.6	76.5	116				

Sample ID: 1501G68-001AMSD	Client ID:	Units: ug/Kg-dry	Prep Date: 01/22/2015	Run No: 284213							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 202023	Analysis Date: 01/22/2015	Seq No: 6026145							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	54.76	6.1	60.67		90.3	56.6	151	49.53	10.0	20.4	
Benzene	54.59	6.1	60.67		90.0	70.4	130	49.44	9.91	16.9	

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Arcadis
 Project Name: Lafarge EP
 Workorder: 1501B59

ANALYTICAL QC SUMMARY REPORT

BatchID: 202023

Sample ID: 1501G68-001AMSD	Client ID:	Units: ug/Kg-dry	Prep Date: 01/22/2015	Run No: 284213
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 202023	Analysis Date: 01/22/2015	Seq No: 6026145

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	53.14	6.1	60.67		87.6	67.5	132	48.96	8.18	14.6	
Toluene	50.15	6.1	60.67		82.7	70.4	130	46.26	8.08	16.6	
Trichloroethene	55.67	6.1	60.67		91.8	70.1	137	52.02	6.78	17	
Surr: 4-Bromofluorobenzene	53.35	0	60.67		87.9	70	128	54.25	0	0	
Surr: Dibromofluoromethane	51.06	0	60.67		84.2	78.2	128	50.64	0	0	
Surr: Toluene-d8	50.96	0	60.67		84.0	76.5	116	51.93	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
 Project Name: Lafarge EP
 Workorder: 1501B59

ANALYTICAL QC SUMMARY REPORT

BatchID: 202038

Sample ID: MB-202038	Client ID:	Units: mg/Kg	Prep Date: 01/21/2015	Run No: 284228							
SampleType: MBLK	TestCode: METALS, TOTAL SW6010C	BatchID: 202038	Analysis Date: 01/22/2015	Seq No: 6026045							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Lead BRL 5.00

Sample ID: LCS-202038	Client ID:	Units: mg/Kg	Prep Date: 01/21/2015	Run No: 284228							
SampleType: LCS	TestCode: METALS, TOTAL SW6010C	BatchID: 202038	Analysis Date: 01/22/2015	Seq No: 6026046							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Lead 49.05 5.00 50.00 98.1 80 120

Sample ID: 1501B59-001AMS	Client ID: SB-143 (1-3)	Units: mg/Kg-dry	Prep Date: 01/21/2015	Run No: 284228							
SampleType: MS	TestCode: METALS, TOTAL SW6010C	BatchID: 202038	Analysis Date: 01/22/2015	Seq No: 6026048							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Lead 66.08 6.06 60.57 13.68 86.5 75 125

Sample ID: 1501B59-001AMSD	Client ID: SB-143 (1-3)	Units: mg/Kg-dry	Prep Date: 01/21/2015	Run No: 284228							
SampleType: MSD	TestCode: METALS, TOTAL SW6010C	BatchID: 202038	Analysis Date: 01/22/2015	Seq No: 6026049							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Lead 64.41 6.05 60.49 13.68 83.9 75 125 66.08 2.56 20

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	

Client: Arcadis
 Project Name: Lafarge EP
 Workorder: 1501B59

ANALYTICAL QC SUMMARY REPORT

BatchID: 202052

Sample ID: MB-202052	Client ID:	Units: mg/Kg	Prep Date: 01/22/2015	Run No: 284240							
SampleType: MBLK	TestCode: METALS, TOTAL SW6010C	BatchID: 202052	Analysis Date: 01/23/2015	Seq No: 6026291							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Lead BRL 5.00

Sample ID: LCS-202052	Client ID:	Units: mg/Kg	Prep Date: 01/22/2015	Run No: 284240							
SampleType: LCS	TestCode: METALS, TOTAL SW6010C	BatchID: 202052	Analysis Date: 01/23/2015	Seq No: 6026292							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Lead 49.75 5.00 50.00 99.5 80 120

Sample ID: 1501B59-043CMS	Client ID: SB-144 (0-1)	Units: mg/Kg-dry	Prep Date: 01/22/2015	Run No: 284240							
SampleType: MS	TestCode: METALS, TOTAL SW6010C	BatchID: 202052	Analysis Date: 01/23/2015	Seq No: 6026294							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Lead 262.4 5.99 59.89 110.7 253 75 125 S

Sample ID: 1501B59-043CMSD	Client ID: SB-144 (0-1)	Units: mg/Kg-dry	Prep Date: 01/22/2015	Run No: 284240							
SampleType: MSD	TestCode: METALS, TOTAL SW6010C	BatchID: 202052	Analysis Date: 01/23/2015	Seq No: 6026295							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Lead 163.4 5.99 59.92 110.7 87.9 75 125 262.4 46.5 20 R

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	

Client: Arcadis
 Project Name: Lafarge EP
 Workorder: 1501B59

ANALYTICAL QC SUMMARY REPORT

BatchID: 202053

Sample ID: MB-202053	Client ID:	Units: mg/Kg	Prep Date: 01/22/2015	Run No: 284233							
SampleType: MBLK	TestCode: METALS, TOTAL SW6010C	BatchID: 202053	Analysis Date: 01/23/2015	Seq No: 6026091							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Lead BRL 5.00

Sample ID: LCS-202053	Client ID:	Units: mg/Kg	Prep Date: 01/22/2015	Run No: 284233							
SampleType: LCS	TestCode: METALS, TOTAL SW6010C	BatchID: 202053	Analysis Date: 01/23/2015	Seq No: 6026094							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Lead 48.83 5.00 50.00 97.7 80 120

Sample ID: 1501B59-049CMS	Client ID: SB-142 (1-3)	Units: mg/Kg-dry	Prep Date: 01/22/2015	Run No: 284233							
SampleType: MS	TestCode: METALS, TOTAL SW6010C	BatchID: 202053	Analysis Date: 01/23/2015	Seq No: 6026096							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Lead 238.6 6.40 64.02 339.0 -157 75 125 S

Sample ID: 1501B59-049CMSD	Client ID: SB-142 (1-3)	Units: mg/Kg-dry	Prep Date: 01/22/2015	Run No: 284233							
SampleType: MSD	TestCode: METALS, TOTAL SW6010C	BatchID: 202053	Analysis Date: 01/23/2015	Seq No: 6026097							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Lead 271.1 6.40 64.00 339.0 -106 75 125 238.6 12.7 20 S

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	

Client: Arcadis
 Project Name: Lafarge EP
 Workorder: 1501B59

ANALYTICAL QC SUMMARY REPORT

BatchID: 202367

Sample ID: MB-202367	Client ID:	Units: ug/Kg	Prep Date: 01/28/2015	Run No: 284634							
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 202367	Analysis Date: 01/28/2015	Seq No: 6035760							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
2-Butanone	BRL	50									
2-Hexanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	100									
Benzene	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon disulfide	BRL	10									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									
Chloroform	BRL	5.0									
Chloromethane	BRL	10									

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
 Project Name: Lafarge EP
 Workorder: 1501B59

ANALYTICAL QC SUMMARY REPORT

BatchID: 202367

Sample ID: MB-202367	Client ID:	Units: ug/Kg	Prep Date: 01/28/2015	Run No: 284634							
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 202367	Analysis Date: 01/28/2015	Seq No: 6035760							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	20									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	10									
Surr: 4-Bromofluorobenzene	42.31	0	50.00		84.6	70	128				
Surr: Dibromofluoromethane	43.66	0	50.00		87.3	78.2	128				
Surr: Toluene-d8	41.45	0	50.00		82.9	76.5	116				

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
Project Name: Lafarge EP
Workorder: 1501B59

ANALYTICAL QC SUMMARY REPORT

BatchID: 202367

Sample ID: LCS-202367	Client ID:	Units: ug/Kg	Prep Date: 01/28/2015	Run No: 284634							
SampleType: LCS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 202367	Analysis Date: 01/28/2015	Seq No: 6035329							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	47.53	5.0	50.00		95.1	69.9	145				
Benzene	42.54	5.0	50.00		85.1	72.3	130				
Chlorobenzene	41.90	5.0	50.00		83.8	69	130				
Toluene	39.97	5.0	50.00		79.9	71.1	130				
Trichloroethene	44.15	5.0	50.00		88.3	71.7	136				
Surr: 4-Bromofluorobenzene	43.03	0	50.00		86.1	70	128				
Surr: Dibromofluoromethane	43.03	0	50.00		86.1	78.2	128				
Surr: Toluene-d8	42.27	0	50.00		84.5	76.5	116				

Sample ID: 1501K81-001AMS	Client ID:	Units: ug/Kg-dry	Prep Date: 01/28/2015	Run No: 284634							
SampleType: MS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 202367	Analysis Date: 01/28/2015	Seq No: 6035334							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	45.62	5.0	50.00		91.2	56.6	151				
Benzene	40.59	5.0	50.00		81.2	70.4	130				
Chlorobenzene	40.60	5.0	50.00		81.2	67.5	132				
Toluene	38.61	5.0	50.00		77.2	70.4	130				
Trichloroethene	42.33	5.0	50.00		84.7	70.1	137				
Surr: 4-Bromofluorobenzene	43.17	0	50.00		86.3	70	128				
Surr: Dibromofluoromethane	42.88	0	50.00		85.8	78.2	128				
Surr: Toluene-d8	42.33	0	50.00		84.7	76.5	116				

Sample ID: 1501K81-001AMSD	Client ID:	Units: ug/Kg-dry	Prep Date: 01/28/2015	Run No: 284634							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 202367	Analysis Date: 01/28/2015	Seq No: 6035338							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	43.21	5.0	50.00		86.4	56.6	151	45.62	5.43	20.4	
Benzene	40.37	5.0	50.00		80.7	70.4	130	40.59	0.543	16.9	

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Arcadis
 Project Name: Lafarge EP
 Workorder: 1501B59

ANALYTICAL QC SUMMARY REPORT

BatchID: 202367

Sample ID: 1501K81-001AMSD	Client ID:	Units: ug/Kg-dry	Prep Date: 01/28/2015	Run No: 284634							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 202367	Analysis Date: 01/28/2015	Seq No: 6035338							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chlorobenzene	40.91	5.0	50.00		81.8	67.5	132	40.60	0.761	14.6	
Toluene	38.25	5.0	50.00		76.5	70.4	130	38.61	0.937	16.6	
Trichloroethene	42.06	5.0	50.00		84.1	70.1	137	42.33	0.640	17	
Surr: 4-Bromofluorobenzene	43.48	0	50.00		87.0	70	128	43.17	0	0	
Surr: Dibromofluoromethane	42.91	0	50.00		85.8	78.2	128	42.88	0	0	
Surr: Toluene-d8	41.90	0	50.00		83.8	76.5	116	42.33	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		



May 08, 2013

Peter Cornais
Arcadis
1000 Cobb Place Blvd., Bldg. 500-A
Kennesaw GA 30144

TEL: (404) 952-1621
FAX: (770) 428-4004

RE: Lafarge

Dear Peter Cornais:

Order No: 1304L88

Analytical Environmental Services, Inc. received 18 samples on 4/24/2013 3:15:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/12-06/30/13.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/13.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Chantelle Kanhai
Project Manager



ANALYTICAL ENVIRONMENTAL SERVICES, INC

3785 Presidential Parkway, Atlanta GA 30340-3704

AES TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1304288

Date: _____ Page 1 of 2

COMPANY: Arcadis		ADDRESS: 1000 Cobb Place Blvd			ANALYSIS REQUESTED						Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.	No # of Containers		
PHONE: 404-952-1602		FAX: Cecilia.reagan@arcadis-us.com			PRESERVATION (See codes)									
SAMPLED BY: C.Reagan/Mark Myers		SIGNATURE: <i>Cecilia Reagan</i>												
#	SAMPLE ID	SAMPLED		Grab	Composite	Matrix (See codes)	PRESERVATION (See codes)						REMARKS	
		DATE	TIME											
1	Zone 1 - A2	4/23/13	1550	X		8								
2	Zone 1 - B3	4/23/13	1800	X										
3	Zone 1 - C4	4/23/13	1201	X										
4	Zone 1 - C2	4/23/13	1510	X			2							3
5	Zone 1 - B1	4/24/13	1511	X										
6	Zone 1 - DS	4/24/13	1209	X										
7	Zone 1 - D1	4/23/13	1935	X										
8	Zone 1 - D3	4/24/13	1221	X										
9	Zone 1 - E2	4/24/13	1240	X										
10	Zone 1 - F1	4/24/13	1245	X										
11	Zone 1 - F3	4/24/13	1250	X										
12	Zone 1 - B4 - S Wall	4/23/13	1820	X										
13	Zone 1 - C1 - N Wall	4/23/13	1600	X										
14	Zone 1 - B3 - E Wall	4/23/13	1540	X										

RELINQUISHED BY: <i>Cecilia Reagan</i> DATE/TIME: 4/24/13		RECEIVED BY: <i>Mark Myers</i> DATE/TIME: 4/24/13 3:15		PROJECT INFORMATION			RECEIPT	
1:		2:		PROJECT NAME: Lafayette			Total # of Containers: 14	
3:		3:		PROJECT #: H2212516			<input type="radio"/> Turnaround Time Request <input checked="" type="radio"/> Standard 5 Business Days <input type="radio"/> 2 Business Day Rush <input type="radio"/> Next Business Day Rush <input type="radio"/> Same Day Rush (auth req.) <input type="radio"/> Other _____	
SPECIAL INSTRUCTIONS/COMMENTS:		SHIPMENT METHOD		SITE ADDRESS: 2675 Martin Street			<input type="radio"/> STATE PROGRAM (if any): _____ E-mail? Y/N; Fax? Y/N	
		OUT VIA: _____ IN VIA: _____ CLIENT FedEx UPS MAIL COURIER GREYHOUND OTHER _____		SEND REPORT TO: peter.cornadis@arcadis-us.com			DATA PACKAGE: I II III IV	
				INVOICE TO: _____ (IF DIFFERENT FROM ABOVE)				
				QUOTE #: _____ PO#: _____				

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES. SAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMPLETION UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water
 PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

Page 2 of 28



ANALYTICAL ENVIRONMENTAL SERVICES, INC

3785 Presidential Parkway, Atlanta GA 30340-3704

CHAIN OF CUSTODY

Work Order: 130488

TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

Date: 4/24/13 Page 2 of 2

COMPANY: ARADU		ADDRESS: 1000 Conk Place Blvd Bldg 5007A Gainesville, GA 30644			ANALYSIS REQUESTED				Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.	No # of Containers
PHONE: (770) 428-9000		FAX: (770) 428-9000			PRESERVATION (See codes)					
SAMPLED BY: M. Mg		SIGNATURE: <i>[Signature]</i>			REMARKS					
#	SAMPLE ID	SAMPLED		Grab	Composite	Matrix (See codes)	I	Lead		
		DATE	TIME							
1	Zone 1 - D4 - West Well	4/24/13	1220	L		SO	1			
2	Zone 1 - A1 - East Well	4/24/13	1530	L		SO	1			
3	Zone 1 - E3 - West Well	4/24/13	1210	L		SO	1			
4	Zone 1 - F1 - North Well	4/24/13	1200	L		SO	1			
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME	PROJECT INFORMATION	RECEIPT
Maxe days	4-24-13 1500	<i>[Signature]</i>	4/24/13 3-15	PROJECT NAME: Landscape E.P. PROJECT #: HT 212 516-0002 SITE ADDRESS: 2675 N. Main St East Point GA SEND REPORT TO: Peter Cornell	Total # of Containers
SPECIAL INSTRUCTIONS/COMMENTS:	SHIPMENT METHOD		INVOICE TO: (IF DIFFERENT FROM ABOVE)	STATE PROGRAM (if any):	Turnaround Time Request
	OUT	VIA:			<input checked="" type="radio"/> Standard 5 Business Days
	IN	VIA:			<input type="radio"/> 2 Business Day Rush
	CLIENT FedEx UPS MAIL COURIER				<input type="radio"/> Next Business Day Rush
	GREYHOUND OTHER				<input type="radio"/> Same Day Rush (auth req.)
					<input type="radio"/> Other
			QUOTE #:		E-mail? Y/N; Fax? Y/N
			PO#:		DATA PACKAGE: I II III IV

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES.
 SAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMPLETION UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water
 PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice SM+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client

Page 3 of 28

Client: Arcadis	Client Sample ID: ZONE 1-A2
Project Name: Lafarge	Collection Date: 4/23/2013 3:50:00 PM
Lab ID: 1304L88-001	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					(SW3050B)			
Lead	152	5.49		mg/Kg-dry	175263	1	04/25/2013 23:06	TA
PERCENT MOISTURE D2216								
Percent Moisture	12.5	0		wt%	R242912	1	04/26/2013 11:30	AS

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: ZONE 1-B3
Project Name: Lafarge	Collection Date: 4/23/2013 3:00:00 PM
Lab ID: 1304L88-002	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					(SW3050B)			
Lead	16.3	6.04		mg/Kg-dry	175263	1	04/25/2013 23:10	TA
PERCENT MOISTURE D2216								
Percent Moisture	22.1	0		wt%	R242912	1	04/26/2013 11:30	AS

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 8-May-13

Client: Arcadis	Client Sample ID: ZONE 1-C4
Project Name: Lafarge	Collection Date: 4/24/2013 12:01:00 PM
Lab ID: 1304L88-003	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					(SW3050B)			
Lead	17.0	6.12		mg/Kg-dry	175263	1	04/25/2013 23:14	TA
PERCENT MOISTURE D2216								
Percent Moisture	20.1	0		wt%	R242912	1	04/26/2013 11:30	AS

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: ZONE 1-C2
Project Name: Lafarge	Collection Date: 4/23/2013 3:10:00 PM
Lab ID: 1304L88-004	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	1.8		ug/Kg-dry	175244	1	04/26/2013 15:18	MD
1,1,2,2-Tetrachloroethane	BRL	1.8		ug/Kg-dry	175244	1	04/26/2013 15:18	MD
1,1,2-Trichloroethane	BRL	1.8		ug/Kg-dry	175244	1	04/26/2013 15:18	MD
1,1-Dichloroethane	BRL	1.8		ug/Kg-dry	175244	1	04/26/2013 15:18	MD
1,1-Dichloroethene	BRL	1.8		ug/Kg-dry	175244	1	04/26/2013 15:18	MD
1,2,4-Trichlorobenzene	BRL	1.8		ug/Kg-dry	175244	1	04/26/2013 15:18	MD
1,2-Dibromo-3-chloropropane	BRL	1.8		ug/Kg-dry	175244	1	04/26/2013 15:18	MD
1,2-Dibromoethane	BRL	1.8		ug/Kg-dry	175244	1	04/26/2013 15:18	MD
1,2-Dichlorobenzene	BRL	1.8		ug/Kg-dry	175244	1	04/26/2013 15:18	MD
1,2-Dichloroethane	BRL	1.8		ug/Kg-dry	175244	1	04/26/2013 15:18	MD
1,2-Dichloropropane	BRL	1.8		ug/Kg-dry	175244	1	04/26/2013 15:18	MD
1,3-Dichlorobenzene	BRL	1.8		ug/Kg-dry	175244	1	04/26/2013 15:18	MD
1,4-Dichlorobenzene	BRL	1.8		ug/Kg-dry	175244	1	04/26/2013 15:18	MD
2-Butanone	BRL	18		ug/Kg-dry	175244	1	04/26/2013 15:18	MD
2-Hexanone	BRL	3.7		ug/Kg-dry	175244	1	04/26/2013 15:18	MD
4-Methyl-2-pentanone	BRL	3.7		ug/Kg-dry	175244	1	04/26/2013 15:18	MD
Acetone	BRL	37		ug/Kg-dry	175244	1	04/26/2013 15:18	MD
Benzene	2.1	1.8		ug/Kg-dry	175244	1	04/26/2013 15:18	MD
Bromodichloromethane	BRL	1.8		ug/Kg-dry	175244	1	04/26/2013 15:18	MD
Bromoform	BRL	1.8		ug/Kg-dry	175244	1	04/26/2013 15:18	MD
Bromomethane	BRL	1.8		ug/Kg-dry	175244	1	04/26/2013 15:18	MD
Carbon disulfide	BRL	3.7		ug/Kg-dry	175244	1	04/26/2013 15:18	MD
Carbon tetrachloride	BRL	1.8		ug/Kg-dry	175244	1	04/26/2013 15:18	MD
Chlorobenzene	BRL	1.8		ug/Kg-dry	175244	1	04/26/2013 15:18	MD
Chloroethane	BRL	3.7		ug/Kg-dry	175244	1	04/26/2013 15:18	MD
Chloroform	BRL	1.8		ug/Kg-dry	175244	1	04/26/2013 15:18	MD
Chloromethane	BRL	3.7		ug/Kg-dry	175244	1	04/26/2013 15:18	MD
cis-1,2-Dichloroethene	120	100		ug/Kg-dry	175319	50	04/26/2013 16:49	DB
cis-1,3-Dichloropropene	BRL	1.8		ug/Kg-dry	175244	1	04/26/2013 15:18	MD
Cyclohexane	BRL	1.8		ug/Kg-dry	175244	1	04/26/2013 15:18	MD
Dibromochloromethane	BRL	1.8		ug/Kg-dry	175244	1	04/26/2013 15:18	MD
Dichlorodifluoromethane	BRL	3.7		ug/Kg-dry	175244	1	04/26/2013 15:18	MD
Ethylbenzene	2.3	1.8		ug/Kg-dry	175244	1	04/26/2013 15:18	MD
Freon-113	BRL	3.7		ug/Kg-dry	175244	1	04/26/2013 15:18	MD
Isopropylbenzene	BRL	1.8		ug/Kg-dry	175244	1	04/26/2013 15:18	MD
m,p-Xylene	4.5	1.8		ug/Kg-dry	175244	1	04/26/2013 15:18	MD
Methyl acetate	BRL	1.8		ug/Kg-dry	175244	1	04/26/2013 15:18	MD
Methyl tert-butyl ether	BRL	1.8		ug/Kg-dry	175244	1	04/26/2013 15:18	MD
Methylcyclohexane	6.6	1.8		ug/Kg-dry	175244	1	04/26/2013 15:18	MD
Methylene chloride	BRL	1.8		ug/Kg-dry	175244	1	04/26/2013 15:18	MD
o-Xylene	2.2	1.8		ug/Kg-dry	175244	1	04/26/2013 15:18	MD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: ZONE 1-C2
Project Name: Lafarge	Collection Date: 4/23/2013 3:10:00 PM
Lab ID: 1304L88-004	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B		(SW5035)						
Styrene	BRL	1.8		ug/Kg-dry	175244	1	04/26/2013 15:18	MD
Tetrachloroethene	BRL	1.8		ug/Kg-dry	175244	1	04/26/2013 15:18	MD
Toluene	3.8	1.8		ug/Kg-dry	175244	1	04/26/2013 15:18	MD
trans-1,2-Dichloroethene	BRL	1.8		ug/Kg-dry	175244	1	04/26/2013 15:18	MD
trans-1,3-Dichloropropene	BRL	1.8		ug/Kg-dry	175244	1	04/26/2013 15:18	MD
Trichloroethene	46	1.8		ug/Kg-dry	175244	1	04/26/2013 15:18	MD
Trichlorofluoromethane	BRL	1.8		ug/Kg-dry	175244	1	04/26/2013 15:18	MD
Vinyl chloride	BRL	3.7		ug/Kg-dry	175244	1	04/26/2013 15:18	MD
Surr: 4-Bromofluorobenzene	101	63.8-133		%REC	175319	50	04/26/2013 16:49	DB
Surr: 4-Bromofluorobenzene	115	63.8-133		%REC	175244	1	04/26/2013 15:18	MD
Surr: Dibromofluoromethane	92.4	74.3-130		%REC	175319	50	04/26/2013 16:49	DB
Surr: Dibromofluoromethane	96.6	74.3-130		%REC	175244	1	04/26/2013 15:18	MD
Surr: Toluene-d8	96.5	72.8-122		%REC	175319	50	04/26/2013 16:49	DB
Surr: Toluene-d8	95.8	72.8-122		%REC	175244	1	04/26/2013 15:18	MD
METALS, TOTAL SW6010C		(SW3050B)						
Lead	94.3	6.39		mg/Kg-dry	175263	1	04/25/2013 23:18	TA
PERCENT MOISTURE D2216								
Percent Moisture	22.3	0		wt%	R242912	1	04/26/2013 11:30	AS

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 8-May-13

Client: Arcadis	Client Sample ID: ZONE 1-B1
Project Name: Lafarge	Collection Date: 4/24/2013 3:11:00 PM
Lab ID: 1304L88-005	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					(SW3050B)			
Lead	62.9	5.82		mg/Kg-dry	175263	1	04/25/2013 23:22	TA
PERCENT MOISTURE D2216								
Percent Moisture	18.6	0		wt%	R242912	1	04/26/2013 11:30	AS

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 8-May-13

Client: Arcadis	Client Sample ID: ZONE 1-D5
Project Name: Lafarge	Collection Date: 4/24/2013 12:09:00 PM
Lab ID: 1304L88-006	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					(SW3050B)			
Lead	82.5	5.13		mg/Kg-dry	175263	1	04/25/2013 23:26	TA
PERCENT MOISTURE D2216								
Percent Moisture	8.97	0		wt%	R242912	1	04/26/2013 11:30	AS

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 8-May-13

Client: Arcadis	Client Sample ID: ZONE 1-D1
Project Name: Lafarge	Collection Date: 4/23/2013 3:35:00 PM
Lab ID: 1304L88-007	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					(SW3050B)			
Lead	52.2	5.67		mg/Kg-dry	175263	1	04/25/2013 23:31	TA
PERCENT MOISTURE D2216								
Percent Moisture	12.8	0		wt%	R242912	1	04/26/2013 11:30	AS

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 8-May-13

Client: Arcadis	Client Sample ID: ZONE 1-D3
Project Name: Lafarge	Collection Date: 4/24/2013 12:21:00 PM
Lab ID: 1304L88-008	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					(SW3050B)			
Lead	188	5.19		mg/Kg-dry	175263	1	04/25/2013 23:35	TA
PERCENT MOISTURE D2216								
Percent Moisture	11.8	0		wt%	R242912	1	04/26/2013 11:30	AS

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 8-May-13

Client: Arcadis	Client Sample ID: ZONE 1-E2
Project Name: Lafarge	Collection Date: 4/24/2013 12:40:00 PM
Lab ID: 1304L88-009	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					(SW3050B)			
Lead	322	5.47		mg/Kg-dry	175263	1	04/25/2013 23:45	TA
PERCENT MOISTURE D2216								
Percent Moisture	10.1	0		wt%	R242912	1	04/26/2013 11:30	AS

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 8-May-13

Client: Arcadis	Client Sample ID: ZONE 1-F1
Project Name: Lafarge	Collection Date: 4/24/2013 12:45:00 PM
Lab ID: 1304L88-010	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					(SW3050B)			
Lead	555	5.20		mg/Kg-dry	175263	1	04/25/2013 23:50	TA
PERCENT MOISTURE D2216								
Percent Moisture	9.63	0		wt%	R242912	1	04/26/2013 11:30	AS

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 8-May-13

Client: Arcadis	Client Sample ID: ZONE 1-F3
Project Name: Lafarge	Collection Date: 4/24/2013 12:50:00 PM
Lab ID: 1304L88-011	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					(SW3050B)			
Lead	287	5.37		mg/Kg-dry	175263	1	04/25/2013 23:54	TA
PERCENT MOISTURE D2216								
Percent Moisture	8.43	0		wt%	R242912	1	04/26/2013 11:30	AS

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 8-May-13

Client: Arcadis	Client Sample ID: ZONE 1-B4-S WALL
Project Name: Lafarge	Collection Date: 4/23/2013 6:20:00 PM
Lab ID: 1304L88-012	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					(SW3050B)			
Lead	15.8	6.25		mg/Kg-dry	175263	1	04/25/2013 23:58	TA
PERCENT MOISTURE D2216								
Percent Moisture	21.1	0		wt%	R242912	1	04/26/2013 11:30	AS

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 8-May-13

Client: Arcadis	Client Sample ID: ZONE 1-C1-N WALL
Project Name: Lafarge	Collection Date: 4/23/2013 4:00:00 PM
Lab ID: 1304L88-013	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					(SW3050B)			
Lead	199	5.88		mg/Kg-dry	175263	1	04/26/2013 00:02	TA
PERCENT MOISTURE D2216								
Percent Moisture	15.5	0		wt%	R242912	1	04/26/2013 11:30	AS

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 8-May-13

Client: Arcadis	Client Sample ID: ZONE 1-B3-E WALL
Project Name: Lafarge	Collection Date: 4/23/2013 3:40:00 PM
Lab ID: 1304L88-014	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					(SW3050B)			
Lead	14.1	6.01		mg/Kg-dry	175263	1	04/25/2013 22:37	TA
PERCENT MOISTURE D2216								
Percent Moisture	18.6	0		wt%	R242912	1	04/26/2013 11:30	AS

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 8-May-13

Client: Arcadis	Client Sample ID: ZONE 1-D4-WEST WALL
Project Name: Lafarge	Collection Date: 4/24/2013 12:20:00 PM
Lab ID: 1304L88-015	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					(SW3050B)			
Lead	26.4	4.97		mg/Kg-dry	175263	1	04/26/2013 00:06	TA
PERCENT MOISTURE D2216								
Percent Moisture	5.10	0		wt%	R242912	1	04/26/2013 11:30	AS

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 8-May-13

Client: Arcadis	Client Sample ID: ZONE 1-A1-EAST WALL
Project Name: Lafarge	Collection Date: 4/23/2013 3:30:00 PM
Lab ID: 1304L88-016	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					(SW3050B)			
Lead	135	6.28		mg/Kg-dry	175263	1	04/26/2013 00:10	TA
PERCENT MOISTURE D2216								
Percent Moisture	25.2	0		wt%	R242912	1	04/26/2013 11:30	AS

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 8-May-13

Client: Arcadis	Client Sample ID: ZONE 1-F3-WEST WALL
Project Name: Lafarge	Collection Date: 4/24/2013 12:10:00 PM
Lab ID: 1304L88-017	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					(SW3050B)			
Lead	22.6	5.75		mg/Kg-dry	175263	1	04/26/2013 00:14	TA
PERCENT MOISTURE D2216								
Percent Moisture	13.2	0		wt%	R242912	1	04/26/2013 11:30	AS

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 8-May-13

Client: Arcadis	Client Sample ID: ZONE 1-F1-NORTRH WALL
Project Name: Lafarge	Collection Date: 4/24/2013 12:00:00 PM
Lab ID: 1304L88-018	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					(SW3050B)			
Lead	229	5.34		mg/Kg-dry	175263	1	04/26/2013 00:18	TA
PERCENT MOISTURE D2216								
Percent Moisture	12.4	0		wt%	R242912	1	04/26/2013 11:30	AS

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Arcadis

Work Order Number 1304688

Checklist completed by Jam B Signature Date 4/24/13

Carrier name: FedEx UPS Courier Client US Mail Other

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present
- Custody seals intact on sample bottles? Yes No Not Present
- Container/Temp Blank temperature in compliance? (4°C±2)* Yes No
- Cooler #1 3-3' Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____
- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Was TAT marked on the COC? Yes No
- Proceed with Standard TAT as per project history? Yes No Not Applicable
- Water - VOA vials have zero headspace? No VOA vials submitted Yes No
- Water - pH acceptable upon receipt? Yes No Not Applicable

Adjusted? _____ Checked by _____

Sample Condition: Good Other(Explain) _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes No

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

Client: Arcadis
 Project Name: Lafarge
 Workorder: 1304L88

ANALYTICAL QC SUMMARY REPORT

BatchID: 175244

Sample ID: MB-175244	Client ID:	Units: ug/Kg	Prep Date: 04/24/2013	Run No: 242760							
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 175244	Analysis Date: 04/24/2013	Seq No: 5083170							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	0
1,1,2,2-Tetrachloroethane	BRL	5.0	0	0	0	0	0	0	0	0	0
1,1,2-Trichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	0
1,1-Dichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	0
1,1-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	0
1,2,4-Trichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	0
1,2-Dibromo-3-chloropropane	BRL	5.0	0	0	0	0	0	0	0	0	0
1,2-Dibromoethane	BRL	5.0	0	0	0	0	0	0	0	0	0
1,2-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	0
1,2-Dichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	0
1,2-Dichloropropane	BRL	5.0	0	0	0	0	0	0	0	0	0
1,3-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	0
1,4-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	0
2-Butanone	BRL	50	0	0	0	0	0	0	0	0	0
2-Hexanone	BRL	10	0	0	0	0	0	0	0	0	0
4-Methyl-2-pentanone	BRL	10	0	0	0	0	0	0	0	0	0
Acetone	BRL	100	0	0	0	0	0	0	0	0	0
Benzene	BRL	5.0	0	0	0	0	0	0	0	0	0
Bromodichloromethane	BRL	5.0	0	0	0	0	0	0	0	0	0
Bromoform	BRL	5.0	0	0	0	0	0	0	0	0	0
Bromomethane	BRL	5.0	0	0	0	0	0	0	0	0	0
Carbon disulfide	BRL	10	0	0	0	0	0	0	0	0	0
Carbon tetrachloride	BRL	5.0	0	0	0	0	0	0	0	0	0
Chlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	0
Chloroethane	BRL	10	0	0	0	0	0	0	0	0	0
Chloroform	BRL	5.0	0	0	0	0	0	0	0	0	0
Chloromethane	BRL	10	0	0	0	0	0	0	0	0	0

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
 Project Name: Lafarge
 Workorder: 1304L88

ANALYTICAL QC SUMMARY REPORT

BatchID: 175244

Sample ID: MB-175244	Client ID:	Units: ug/Kg	Prep Date: 04/24/2013	Run No: 242760							
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 175244	Analysis Date: 04/24/2013	Seq No: 5083170							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
cis-1,3-Dichloropropene	BRL	5.0	0	0	0	0	0	0	0	0	
Cyclohexane	BRL	5.0	0	0	0	0	0	0	0	0	
Dibromochloromethane	BRL	5.0	0	0	0	0	0	0	0	0	
Dichlorodifluoromethane	BRL	10	0	0	0	0	0	0	0	0	
Ethylbenzene	BRL	5.0	0	0	0	0	0	0	0	0	
Freon-113	BRL	10	0	0	0	0	0	0	0	0	
Isopropylbenzene	BRL	5.0	0	0	0	0	0	0	0	0	
m,p-Xylene	BRL	5.0	0	0	0	0	0	0	0	0	
Methyl acetate	BRL	5.0	0	0	0	0	0	0	0	0	
Methyl tert-butyl ether	BRL	5.0	0	0	0	0	0	0	0	0	
Methylcyclohexane	BRL	5.0	0	0	0	0	0	0	0	0	
Methylene chloride	BRL	5.0	0	0	0	0	0	0	0	0	
o-Xylene	BRL	5.0	0	0	0	0	0	0	0	0	
Styrene	BRL	5.0	0	0	0	0	0	0	0	0	
Tetrachloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
Toluene	BRL	5.0	0	0	0	0	0	0	0	0	
trans-1,2-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
trans-1,3-Dichloropropene	BRL	5.0	0	0	0	0	0	0	0	0	
Trichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
Trichlorofluoromethane	BRL	5.0	0	0	0	0	0	0	0	0	
Vinyl chloride	BRL	10	0	0	0	0	0	0	0	0	
Surr: 4-Bromofluorobenzene	43.20	0	50.00	0	86.4	63.8	133	0	0	0	
Surr: Dibromofluoromethane	44.33	0	50.00	0	88.7	74.3	130	0	0	0	
Surr: Toluene-d8	46.91	0	50.00	0	93.8	72.8	122	0	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
 Project Name: Lafarge
 Workorder: 1304L88

ANALYTICAL QC SUMMARY REPORT

BatchID: 175244

Sample ID: LCS-175244	Client ID:	Units: ug/Kg	Prep Date: 04/24/2013	Run No: 242760							
SampleType: LCS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 175244	Analysis Date: 04/24/2013	Seq No: 5083800							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	45.06	5.0	50.00	0	90.1	63.1	140	0	0	0	
Benzene	48.43	5.0	50.00	0	96.9	70.2	130	0	0	0	
Chlorobenzene	45.80	5.0	50.00	0	91.6	70	126	0	0	0	
Toluene	44.64	5.0	50.00	0	89.3	70.5	130	0	0	0	
Trichloroethene	47.61	5.0	50.00	0	95.2	70	135	0	0	0	
Surr: 4-Bromofluorobenzene	47.56	0	50.00	0	95.1	63.8	133	0	0	0	
Surr: Dibromofluoromethane	48.93	0	50.00	0	97.9	74.3	130	0	0	0	
Surr: Toluene-d8	49.86	0	50.00	0	99.7	72.8	122	0	0	0	

Sample ID: 1304L30-001AMS	Client ID:	Units: ug/Kg-dry	Prep Date: 04/24/2013	Run No: 242760							
SampleType: MS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 175244	Analysis Date: 04/24/2013	Seq No: 5083809							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	59.63	6.9	69.36	0	86.0	58.8	157	0	0	0	
Benzene	70.25	6.9	69.36	0	101	66.3	139	0	0	0	
Chlorobenzene	69.40	6.9	69.36	0	100	67.8	131	0	0	0	
Toluene	64.68	6.9	69.36	0	93.3	66	138	0	0	0	
Trichloroethene	68.41	6.9	69.36	0	98.6	72.5	141	0	0	0	
Surr: 4-Bromofluorobenzene	63.86	0	69.36	0	92.1	63.8	133	0	0	0	
Surr: Dibromofluoromethane	63.99	0	69.36	0	92.3	74.3	130	0	0	0	
Surr: Toluene-d8	68.21	0	69.36	0	98.3	72.8	122	0	0	0	

Sample ID: 1304L30-001AMSD	Client ID:	Units: ug/Kg-dry	Prep Date: 04/24/2013	Run No: 242760							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 175244	Analysis Date: 04/24/2013	Seq No: 5083810							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	65.07	6.9	69.36	0	93.8	58.8	157	59.63	8.72	21.9	
Benzene	75.35	6.9	69.36	0	109	66.3	139	70.25	7.01	22.3	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
 Project Name: Lafarge
 Workorder: 1304L88

ANALYTICAL QC SUMMARY REPORT

BatchID: 175244

Sample ID: 1304L30-001AMSD	Client ID:	Units: ug/Kg-dry	Prep Date: 04/24/2013	Run No: 242760							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 175244	Analysis Date: 04/24/2013	Seq No: 5083810							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chlorobenzene	75.57	6.9	69.36	0	109	67.8	131	69.40	8.52	17.3	
Toluene	68.64	6.9	69.36	0	99.0	66	138	64.68	5.93	18.1	
Trichloroethene	74.95	6.9	69.36	0	108	72.5	141	68.41	9.11	18.7	
Surr: 4-Bromofluorobenzene	65.46	0	69.36	0	94.4	63.8	133	63.86	0	0	
Surr: Dibromofluoromethane	64.27	0	69.36	0	92.7	74.3	130	63.99	0	0	
Surr: Toluene-d8	68.58	0	69.36	0	98.9	72.8	122	68.21	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
 Project Name: Lafarge
 Workorder: 1304L88

ANALYTICAL QC SUMMARY REPORT

BatchID: 175263

Sample ID: MB-175263	Client ID:	Units: mg/Kg	Prep Date: 04/25/2013	Run No: 242868							
SampleType: MBLK	TestCode: METALS, TOTAL SW6010C	BatchID: 175263	Analysis Date: 04/25/2013	Seq No: 5085691							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Lead BRL 5.00 0 0 0 0 0 0 0 0 0 0

Sample ID: LCS-175263	Client ID:	Units: mg/Kg	Prep Date: 04/25/2013	Run No: 242868							
SampleType: LCS	TestCode: METALS, TOTAL SW6010C	BatchID: 175263	Analysis Date: 04/25/2013	Seq No: 5085689							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Lead 48.99 5.00 50.00 0 98.0 80 120 0 0 0

Sample ID: 1304L88-014AMS	Client ID: ZONE 1-B3-E WALL	Units: mg/Kg-dry	Prep Date: 04/25/2013	Run No: 242868							
SampleType: MS	TestCode: METALS, TOTAL SW6010C	BatchID: 175263	Analysis Date: 04/25/2013	Seq No: 5085694							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Lead 65.02 5.98 59.81 14.10 85.1 75 125 0 0 0

Sample ID: 1304L88-014AMSD	Client ID: ZONE 1-B3-E WALL	Units: mg/Kg-dry	Prep Date: 04/25/2013	Run No: 242868							
SampleType: MSD	TestCode: METALS, TOTAL SW6010C	BatchID: 175263	Analysis Date: 04/25/2013	Seq No: 5085696							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Lead 64.75 6.01 60.06 14.10 84.3 75 125 65.02 0.420 20

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix



July 03, 2013

Peter Cornais
Arcadis
2081 Vista Parkway, Suite 200
West Palm Beach FL 33411

TEL: (850) 445-0829
FAX:

RE: Lafarge EP

Dear Peter Cornais:

Order No: 1306P15

Analytical Environmental Services, Inc. received 12 samples on 6/27/2013 3:00:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/13-06/30/14.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/15.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Chantelle Kanhai
Project Manager

Analytical Environmental Services, Inc

Date: 3-Jul-13

Client: Arcadis	Client Sample ID: ZONE 2A-E2-SW
Project Name: Lafarge EP	Collection Date: 6/26/2013 4:35:00 PM
Lab ID: 1306P15-001	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					(SW3050B)			
Lead	610	5.55		mg/Kg-dry	178088	1	07/02/2013 20:01	MR
PERCENT MOISTURE D2216								
Percent Moisture	15.5	0		wt%	R247387	1	07/02/2013 14:00	AS

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 3-Jul-13

Client: Arcadis	Client Sample ID: ZONE 2A-D2-SW
Project Name: Lafarge EP	Collection Date: 6/26/2013 4:40:00 PM
Lab ID: 1306P15-002	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					(SW3050B)			
Lead	1520	5.32		mg/Kg-dry	178088	1	07/02/2013 20:05	MR
PERCENT MOISTURE D2216								
Percent Moisture	11.3	0		wt%	R247387	1	07/02/2013 14:00	AS

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 3-Jul-13

Client: Arcadis	Client Sample ID: ZONE 2A-E1-NW
Project Name: Lafarge EP	Collection Date: 6/26/2013 4:30:00 PM
Lab ID: 1306P15-003	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					(SW3050B)			
Lead	586	5.32		mg/Kg-dry	178088	1	07/02/2013 20:17	MR
PERCENT MOISTURE D2216								
Percent Moisture	11.2	0		wt%	R247387	1	07/02/2013 14:00	AS

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: ZONE 2A-E2
Project Name: Lafarge EP	Collection Date: 6/26/2013 4:25:00 PM
Lab ID: 1306P15-004	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					(SW3050B)			
Lead	121	5.42		mg/Kg-dry	178088	1	07/02/2013 20:21	MR
PERCENT MOISTURE D2216								
Percent Moisture	15.4	0		wt%	R247387	1	07/02/2013 14:00	AS

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: ZONE 2A-D1
Project Name: Lafarge EP	Collection Date: 6/26/2013 4:20:00 PM
Lab ID: 1306P15-005	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					(SW3050B)			
Lead	469	5.55		mg/Kg-dry	178088	1	07/02/2013 20:26	MR
PERCENT MOISTURE D2216								
Percent Moisture	10.8	0		wt%	R247387	1	07/02/2013 14:00	AS

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 3-Jul-13

Client: Arcadis	Client Sample ID: ZONE 2A-A2
Project Name: Lafarge EP	Collection Date: 6/20/2013 4:20:00 PM
Lab ID: 1306P15-006	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					(SW3050B)			
Lead	183	6.74		mg/Kg-dry	178088	1	07/02/2013 20:30	MR
PERCENT MOISTURE D2216								
Percent Moisture	26.8	0		wt%	R247387	1	07/02/2013 14:00	AS

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 3-Jul-13

Client: Arcadis	Client Sample ID: ZONE 2A-B1
Project Name: Lafarge EP	Collection Date: 6/20/2013 4:25:00 PM
Lab ID: 1306P15-007	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					(SW3050B)			
Lead	198	6.02		mg/Kg-dry	178088	1	07/02/2013 20:34	MR
PERCENT MOISTURE D2216								
Percent Moisture	20.5	0		wt%	R247387	1	07/02/2013 14:00	AS

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: ZONE 2A-C2
Project Name: Lafarge EP	Collection Date: 6/20/2013 4:30:00 PM
Lab ID: 1306P15-008	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	3.4		ug/Kg-dry	178025	1	06/28/2013 14:09	MD
1,1,2,2-Tetrachloroethane	BRL	3.4		ug/Kg-dry	178025	1	06/28/2013 14:09	MD
1,1,2-Trichloroethane	BRL	3.4		ug/Kg-dry	178025	1	06/28/2013 14:09	MD
1,1-Dichloroethane	BRL	3.4		ug/Kg-dry	178025	1	06/28/2013 14:09	MD
1,1-Dichloroethene	BRL	3.4		ug/Kg-dry	178025	1	06/28/2013 14:09	MD
1,2,4-Trichlorobenzene	BRL	3.4		ug/Kg-dry	178025	1	06/28/2013 14:09	MD
1,2-Dibromo-3-chloropropane	BRL	3.4		ug/Kg-dry	178025	1	06/28/2013 14:09	MD
1,2-Dibromoethane	BRL	3.4		ug/Kg-dry	178025	1	06/28/2013 14:09	MD
1,2-Dichlorobenzene	BRL	3.4		ug/Kg-dry	178025	1	06/28/2013 14:09	MD
1,2-Dichloroethane	BRL	3.4		ug/Kg-dry	178025	1	06/28/2013 14:09	MD
1,2-Dichloropropane	BRL	3.4		ug/Kg-dry	178025	1	06/28/2013 14:09	MD
1,3-Dichlorobenzene	BRL	3.4		ug/Kg-dry	178025	1	06/28/2013 14:09	MD
1,4-Dichlorobenzene	BRL	3.4		ug/Kg-dry	178025	1	06/28/2013 14:09	MD
2-Butanone	BRL	34		ug/Kg-dry	178025	1	06/28/2013 14:09	MD
2-Hexanone	BRL	6.7		ug/Kg-dry	178025	1	06/28/2013 14:09	MD
4-Methyl-2-pentanone	BRL	6.7		ug/Kg-dry	178025	1	06/28/2013 14:09	MD
Acetone	180	67		ug/Kg-dry	178025	1	06/28/2013 14:09	MD
Benzene	BRL	3.4		ug/Kg-dry	178025	1	06/28/2013 14:09	MD
Bromodichloromethane	BRL	3.4		ug/Kg-dry	178025	1	06/28/2013 14:09	MD
Bromoform	BRL	3.4		ug/Kg-dry	178025	1	06/28/2013 14:09	MD
Bromomethane	BRL	3.4		ug/Kg-dry	178025	1	06/28/2013 14:09	MD
Carbon disulfide	BRL	6.7		ug/Kg-dry	178025	1	06/28/2013 14:09	MD
Carbon tetrachloride	BRL	3.4		ug/Kg-dry	178025	1	06/28/2013 14:09	MD
Chlorobenzene	BRL	3.4		ug/Kg-dry	178025	1	06/28/2013 14:09	MD
Chloroethane	BRL	6.7		ug/Kg-dry	178025	1	06/28/2013 14:09	MD
Chloroform	BRL	3.4		ug/Kg-dry	178025	1	06/28/2013 14:09	MD
Chloromethane	BRL	6.7		ug/Kg-dry	178025	1	06/28/2013 14:09	MD
cis-1,2-Dichloroethene	BRL	3.4		ug/Kg-dry	178025	1	06/28/2013 14:09	MD
cis-1,3-Dichloropropene	BRL	3.4		ug/Kg-dry	178025	1	06/28/2013 14:09	MD
Cyclohexane	BRL	3.4		ug/Kg-dry	178025	1	06/28/2013 14:09	MD
Dibromochloromethane	BRL	3.4		ug/Kg-dry	178025	1	06/28/2013 14:09	MD
Dichlorodifluoromethane	BRL	6.7		ug/Kg-dry	178025	1	06/28/2013 14:09	MD
Ethylbenzene	BRL	3.4		ug/Kg-dry	178025	1	06/28/2013 14:09	MD
Freon-113	BRL	6.7		ug/Kg-dry	178025	1	06/28/2013 14:09	MD
Isopropylbenzene	BRL	3.4		ug/Kg-dry	178025	1	06/28/2013 14:09	MD
m,p-Xylene	BRL	3.4		ug/Kg-dry	178025	1	06/28/2013 14:09	MD
Methyl acetate	BRL	3.4		ug/Kg-dry	178025	1	06/28/2013 14:09	MD
Methyl tert-butyl ether	BRL	3.4		ug/Kg-dry	178025	1	06/28/2013 14:09	MD
Methylcyclohexane	BRL	3.4		ug/Kg-dry	178025	1	06/28/2013 14:09	MD
Methylene chloride	BRL	13		ug/Kg-dry	178025	1	06/28/2013 14:09	MD
o-Xylene	BRL	3.4		ug/Kg-dry	178025	1	06/28/2013 14:09	MD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: ZONE 2A-C2
Project Name: Lafarge EP	Collection Date: 6/20/2013 4:30:00 PM
Lab ID: 1306P15-008	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5035)				
Styrene	BRL	3.4		ug/Kg-dry	178025	1	06/28/2013 14:09	MD
Tetrachloroethene	BRL	3.4		ug/Kg-dry	178025	1	06/28/2013 14:09	MD
Toluene	BRL	3.4		ug/Kg-dry	178025	1	06/28/2013 14:09	MD
trans-1,2-Dichloroethene	BRL	3.4		ug/Kg-dry	178025	1	06/28/2013 14:09	MD
trans-1,3-Dichloropropene	BRL	3.4		ug/Kg-dry	178025	1	06/28/2013 14:09	MD
Trichloroethene	BRL	3.4		ug/Kg-dry	178025	1	06/28/2013 14:09	MD
Trichlorofluoromethane	BRL	3.4		ug/Kg-dry	178025	1	06/28/2013 14:09	MD
Vinyl chloride	BRL	6.7		ug/Kg-dry	178025	1	06/28/2013 14:09	MD
Surr: 4-Bromofluorobenzene	88.4	63.8-133		%REC	178025	1	06/28/2013 14:09	MD
Surr: Dibromofluoromethane	88.4	74.3-130		%REC	178025	1	06/28/2013 14:09	MD
Surr: Toluene-d8	89.6	72.8-122		%REC	178025	1	06/28/2013 14:09	MD
METALS, TOTAL SW6010C				(SW3050B)				
Lead	422	5.29		mg/Kg-dry	178088	1	07/02/2013 20:39	MR
PERCENT MOISTURE D2216								
Percent Moisture	12.6	0		wt%	R247387	1	07/02/2013 14:00	AS

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 3-Jul-13

Client: Arcadis	Client Sample ID: ZONE 2A-A1-NW
Project Name: Lafarge EP	Collection Date: 6/20/2013 4:40:00 PM
Lab ID: 1306P15-009	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					(SW3050B)			
Lead	206	6.89		mg/Kg-dry	178088	1	07/02/2013 20:44	MR
PERCENT MOISTURE D2216								
Percent Moisture	30.6	0		wt%	R247387	1	07/02/2013 14:00	AS

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 3-Jul-13

Client: Arcadis	Client Sample ID: ZONE 2A-A2-WW
Project Name: Lafarge EP	Collection Date: 6/20/2013 4:35:00 PM
Lab ID: 1306P15-010	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					(SW3050B)			
Lead	13.7	6.86		mg/Kg-dry	178088	1	07/02/2013 20:48	MR
PERCENT MOISTURE D2216								
Percent Moisture	28.9	0		wt%	R247387	1	07/02/2013 14:00	AS

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 3-Jul-13

Client: Arcadis	Client Sample ID: ZONE 2A-C1-NW
Project Name: Lafarge EP	Collection Date: 6/20/2013 4:45:00 PM
Lab ID: 1306P15-011	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					(SW3050B)			
Lead	263	5.43		mg/Kg-dry	178088	1	07/02/2013 20:52	MR
PERCENT MOISTURE D2216								
Percent Moisture	12.6	0		wt%	R247387	1	07/02/2013 14:00	AS

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 3-Jul-13

Client: Arcadis	Client Sample ID: ZONE 2A-C2-SW
Project Name: Lafarge EP	Collection Date: 6/20/2013 4:50:00 PM
Lab ID: 1306P15-012	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					(SW3050B)			
Lead	187	5.92		mg/Kg-dry	178088	1	07/02/2013 20:56	MR
PERCENT MOISTURE D2216								
Percent Moisture	17.1	0		wt%	R247387	1	07/02/2013 14:00	AS

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Arcadis

Work Order Number 1306P15

Checklist completed by [Signature] 6/28/13
Signature Date

Carrier name: FedEx UPS Courier Client US Mail Other

Shipping container/cooler in good condition? Yes No Not Present

Custody seals intact on shipping container/cooler? Yes No Not Present

Custody seals intact on sample bottles? Yes No Not Present

Container/Temp Blank temperature in compliance? (4°C±2)* Yes No

Cooler #1 3.7 Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present? Yes No

Chain of custody signed when relinquished and received? Yes No

Chain of custody agrees with sample labels? Yes No

Samples in proper container/bottle? Yes No

Sample containers intact? Yes No

Sufficient sample volume for indicated test? Yes No

All samples received within holding time? Yes No

Was TAT marked on the COC? Yes No

Proceed with Standard TAT as per project history? Yes No Not Applicable

Water - VOA vials have zero headspace? No VOA vials submitted Yes No

Water - pH acceptable upon receipt? Yes No Not Applicable

Sample Condition: Good Adjusted? _____ Other(Explain) _____ Checked by _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes No

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

Client: Arcadis
 Project Name: Lafarge EP
 Workorder: 1306P15

ANALYTICAL QC SUMMARY REPORT

BatchID: 178025

Sample ID: MB-178025	Client ID:	Units: ug/Kg	Prep Date: 06/27/2013	Run No: 247008							
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 178025	Analysis Date: 06/27/2013	Seq No: 5175930							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
2-Butanone	BRL	50									
2-Hexanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	100									
Benzene	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon disulfide	BRL	10									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									
Chloroform	BRL	5.0									
Chloromethane	BRL	10									

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
Project Name: Lafarge EP
Workorder: 1306P15

ANALYTICAL QC SUMMARY REPORT

BatchID: 178025

Sample ID: MB-178025	Client ID:	Units: ug/Kg	Prep Date: 06/27/2013	Run No: 247008							
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 178025	Analysis Date: 06/27/2013	Seq No: 5175930							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	20									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	10									
Surr: 4-Bromofluorobenzene	44.24	0	50.00		88.5	63.8	133				
Surr: Dibromofluoromethane	50.11	0	50.00		100	74.3	130				
Surr: Toluene-d8	45.81	0	50.00		91.6	72.8	122				

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
Project Name: Lafarge EP
Workorder: 1306P15

ANALYTICAL QC SUMMARY REPORT

BatchID: 178025

Sample ID: LCS-178025	Client ID:	Units: ug/Kg	Prep Date: 06/27/2013	Run No: 247008							
SampleType: LCS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 178025	Analysis Date: 06/27/2013	Seq No: 5175931							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	55.06	5.0	50.00		110	63.1	140				
Benzene	52.50	5.0	50.00		105	70.2	130				
Chlorobenzene	48.28	5.0	50.00		96.6	70	126				
Toluene	54.58	5.0	50.00		109	70.5	130				
Trichloroethene	53.97	5.0	50.00		108	70	135				
Surr: 4-Bromofluorobenzene	51.21	0	50.00		102	63.8	133				
Surr: Dibromofluoromethane	50.78	0	50.00		102	74.3	130				
Surr: Toluene-d8	49.12	0	50.00		98.2	72.8	122				

Sample ID: 1306M97-001AMS	Client ID:	Units: ug/Kg-dry	Prep Date: 06/27/2013	Run No: 247058							
SampleType: MS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 178025	Analysis Date: 06/28/2013	Seq No: 5176813							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	56.32	5.4	54.00		104	58.8	157				
Benzene	57.98	5.4	54.00		107	66.3	139				
Chlorobenzene	53.21	5.4	54.00		98.5	67.8	131				
Toluene	58.96	5.4	54.00		109	66	138				
Trichloroethene	61.29	5.4	54.00		114	72.5	141				
Surr: 4-Bromofluorobenzene	52.96	0	54.00		98.1	63.8	133				
Surr: Dibromofluoromethane	48.51	0	54.00		89.8	74.3	130				
Surr: Toluene-d8	51.22	0	54.00		94.9	72.8	122				

Sample ID: 1306M97-001AMSD	Client ID:	Units: ug/Kg-dry	Prep Date: 06/27/2013	Run No: 247058							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 178025	Analysis Date: 06/28/2013	Seq No: 5176816							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	54.20	5.4	54.00		100	58.8	157	56.32	3.83	21.9	
Benzene	54.49	5.4	54.00		101	66.3	139	57.98	6.20	22.3	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
 Project Name: Lafarge EP
 Workorder: 1306P15

ANALYTICAL QC SUMMARY REPORT

BatchID: 178025

Sample ID: 1306M97-001AMSD	Client ID:	Units: ug/Kg-dry	Prep Date: 06/27/2013	Run No: 247058							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 178025	Analysis Date: 06/28/2013	Seq No: 5176816							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chlorobenzene	50.11	5.4	54.00		92.8	67.8	131	53.21	6.00	17.3	
Toluene	55.52	5.4	54.00		103	66	138	58.96	6.00	18.1	
Trichloroethene	58.27	5.4	54.00		108	72.5	141	61.29	5.04	18.7	
Surr: 4-Bromofluorobenzene	53.05	0	54.00		98.2	63.8	133	52.96	0	0	
Surr: Dibromofluoromethane	48.54	0	54.00		89.9	74.3	130	48.51	0	0	
Surr: Toluene-d8	50.38	0	54.00		93.3	72.8	122	51.22	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
 Project Name: Lafarge EP
 Workorder: 1306P15

ANALYTICAL QC SUMMARY REPORT

BatchID: 178088

Sample ID: MB-178088	Client ID:	Units: mg/Kg	Prep Date: 07/01/2013	Run No: 247298							
SampleType: MBLK	TestCode: METALS, TOTAL SW6010C	BatchID: 178088	Analysis Date: 07/02/2013	Seq No: 5182036							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Lead BRL 5.00

Sample ID: LCS-178088	Client ID:	Units: mg/Kg	Prep Date: 07/01/2013	Run No: 247298							
SampleType: LCS	TestCode: METALS, TOTAL SW6010C	BatchID: 178088	Analysis Date: 07/02/2013	Seq No: 5182034							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Lead 48.53 5.00 50.00 97.1 80 120

Sample ID: 1306Q75-001CMS	Client ID:	Units: mg/Kg	Prep Date: 07/01/2013	Run No: 247298							
SampleType: MS	TestCode: METALS, TOTAL SW6010C	BatchID: 178088	Analysis Date: 07/02/2013	Seq No: 5182044							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Lead 48.14 4.79 47.86 3.946 92.3 75 125

Sample ID: 1306Q75-001CMSD	Client ID:	Units: mg/Kg	Prep Date: 07/01/2013	Run No: 247298							
SampleType: MSD	TestCode: METALS, TOTAL SW6010C	BatchID: 178088	Analysis Date: 07/02/2013	Seq No: 5182047							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Lead 51.01 4.79 47.85 3.946 98.4 75 125 48.14 5.79 20

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	



May 22, 2013

Peter Cornais
Arcadis
1000 Cobb Place Blvd., Bldg. 500-A
Kennesaw GA 30144

TEL: (404) 952-1621
FAX: (770) 428-4004

RE: Lafarge East Point

Dear Peter Cornais:

Order No: 1305989

Analytical Environmental Services, Inc. received 14 samples on 5/10/2013 11:35:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/12-06/30/13.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/13.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Chantelle Kanhai
Project Manager

Client: Arcadis
Project: Lafarge East Point
Lab ID: 1305989

Case Narrative

None of the samples submitted for VOCs analysis were able to be analyzed. The vials contained too much soil. The client was notified on 5/14/2013 via email.

Analytical Environmental Services, Inc

Date: 22-May-13

Client: Arcadis	Client Sample ID: ZONE 3A-G2
Project Name: Lafarge East Point	Collection Date: 5/9/2013 4:10:00 PM
Lab ID: 1305989-001	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					(SW3050B)			
Lead	285	6.71		mg/Kg-dry	176096	1	05/15/2013 19:31	MR
PERCENT MOISTURE D2216								
Percent Moisture	25.5	0		wt%	R244099	1	05/15/2013 13:00	AS

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 22-May-13

Client: Arcadis	Client Sample ID: ZONE 3A-F1
Project Name: Lafarge East Point	Collection Date: 5/9/2013 4:15:00 PM
Lab ID: 1305989-002	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					(SW3050B)			
Lead	329	5.69		mg/Kg-dry	176096	1	05/15/2013 19:35	MR
PERCENT MOISTURE D2216								
Percent Moisture	15.7	0		wt%	R244099	1	05/15/2013 13:00	AS

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 22-May-13

Client: Arcadis	Client Sample ID: ZONE 3A-E2
Project Name: Lafarge East Point	Collection Date: 5/10/2013 9:55:00 AM
Lab ID: 1305989-003	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					(SW3050B)			
Lead	322	5.62		mg/Kg-dry	176096	1	05/15/2013 19:39	MR
PERCENT MOISTURE D2216								
Percent Moisture	11.6	0		wt%	R244099	1	05/15/2013 13:00	AS

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 22-May-13

Client: Arcadis	Client Sample ID: ZONE 3A-D1
Project Name: Lafarge East Point	Collection Date: 5/9/2013 4:25:00 PM
Lab ID: 1305989-004	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					(SW3050B)			
Lead	575	5.19		mg/Kg-dry	176096	1	05/15/2013 19:43	MR
PERCENT MOISTURE D2216								
Percent Moisture	12.0	0		wt%	R244099	1	05/15/2013 13:00	AS

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 22-May-13

Client: Arcadis	Client Sample ID: ZONE 3A-E2-SOUTH WALL
Project Name: Lafarge East Point	Collection Date: 5/9/2013 4:40:00 PM
Lab ID: 1305989-005	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					(SW3050B)			
Lead	560	5.46		mg/Kg-dry	176096	1	05/15/2013 19:47	MR
PERCENT MOISTURE D2216								
Percent Moisture	13.1	0		wt%	R244099	1	05/15/2013 13:00	AS

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 22-May-13

Client: Arcadis	Client Sample ID: ZONE 3A-C2
Project Name: Lafarge East Point	Collection Date: 5/10/2013 9:50:00 AM
Lab ID: 1305989-006	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					(SW3050B)			
Lead	68.2	6.25		mg/Kg-dry	176096	1	05/15/2013 19:51	MR
PERCENT MOISTURE D2216								
Percent Moisture	22.4	0		wt%	R244099	1	05/15/2013 13:00	AS

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 22-May-13

Client: Arcadis	Client Sample ID: ZONE 3A-B1
Project Name: Lafarge East Point	Collection Date: 5/10/2013 9:45:00 AM
Lab ID: 1305989-007	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					(SW3050B)			
Lead	54.3	6.01		mg/Kg-dry	176096	1	05/15/2013 19:55	MR
PERCENT MOISTURE D2216								
Percent Moisture	19.1	0		wt%	R244099	1	05/15/2013 13:00	AS

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 22-May-13

Client: Arcadis	Client Sample ID: ZONE 3A-A2
Project Name: Lafarge East Point	Collection Date: 5/10/2013 9:40:00 AM
Lab ID: 1305989-008	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					(SW3050B)			
Lead	20.6	6.19		mg/Kg-dry	176096	1	05/15/2013 19:59	MR
PERCENT MOISTURE D2216								
Percent Moisture	21.6	0		wt%	R244099	1	05/15/2013 13:00	AS

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 22-May-13

Client: Arcadis	Client Sample ID: ZONE 3A-C2 SOUTH WALL
Project Name: Lafarge East Point	Collection Date: 5/9/2013 5:15:00 PM
Lab ID: 1305989-009	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					(SW3050B)			
Lead	206	5.62		mg/Kg-dry	176096	1	05/15/2013 20:03	MR
PERCENT MOISTURE D2216								
Percent Moisture	17.5	0		wt%	R244099	1	05/15/2013 13:00	AS

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 22-May-13

Client: Arcadis	Client Sample ID: ZONE 3A-A2 SOUTH WALL
Project Name: Lafarge East Point	Collection Date: 5/9/2013 5:20:00 PM
Lab ID: 1305989-010	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					(SW3050B)			
Lead	355	5.26		mg/Kg-dry	176096	1	05/15/2013 20:07	MR
PERCENT MOISTURE D2216								
Percent Moisture	12.9	0		wt%	R244099	1	05/15/2013 13:00	AS

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 22-May-13

Client: Arcadis	Client Sample ID: ZONE 3A-B1 NORTH WALL
Project Name: Lafarge East Point	Collection Date: 5/10/2013 10:00:00 AM
Lab ID: 1305989-011	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					(SW3050B)			
Lead	310	5.89		mg/Kg-dry	176096	1	05/15/2013 20:17	MR
PERCENT MOISTURE D2216								
Percent Moisture	17.2	0		wt%	R244099	1	05/15/2013 13:00	AS

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 22-May-13

Client: Arcadis	Client Sample ID: ZONE 3A-D1 NORTH WALL
Project Name: Lafarge East Point	Collection Date: 5/9/2013 5:30:00 PM
Lab ID: 1305989-012	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					(SW3050B)			
Lead	419	6.01		mg/Kg-dry	176096	1	05/15/2013 20:21	MR
PERCENT MOISTURE D2216								
Percent Moisture	18.3	0		wt%	R244099	1	05/15/2013 13:00	AS

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 22-May-13

Client: Arcadis	Client Sample ID: ZONE 3A-F1 NORTH WALL
Project Name: Lafarge East Point	Collection Date: 5/9/2013 5:35:00 PM
Lab ID: 1305989-013	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					(SW3050B)			
Lead	229	6.02		mg/Kg-dry	176096	1	05/15/2013 20:25	MR
PERCENT MOISTURE D2216								
Percent Moisture	17.2	0		wt%	R244099	1	05/15/2013 13:00	AS

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 22-May-13

Client: Arcadis	Client Sample ID: ZONE 3A-G2 WEST WALL
Project Name: Lafarge East Point	Collection Date: 5/9/2013 5:45:00 PM
Lab ID: 1305989-014	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					(SW3050B)			
Lead	314	5.94		mg/Kg-dry	176096	1	05/15/2013 20:29	MR
PERCENT MOISTURE D2216								
Percent Moisture	16.6	0		wt%	R244099	1	05/15/2013 13:00	AS

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Arcadis

Work Order Number 1305989

Checklist completed by [Signature] 5/10/13
Signature Date

Carrier name: FedEx UPS Courier Client US Mail Other

Shipping container/cooler in good condition? Yes No Not Present
Custody seals intact on shipping container/cooler? Yes No Not Present
Custody seals intact on sample bottles? Yes No Not Present

Container/Temp Blank temperature in compliance? (4°C±2)* Yes No

Cooler #1 3.2° Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present? Yes No
Chain of custody signed when relinquished and received? Yes No
Chain of custody agrees with sample labels? Yes No
Samples in proper container/bottle? Yes No
Sample containers intact? Yes No
Sufficient sample volume for indicated test? Yes No
All samples received within holding time? Yes No
Was TAT marked on the COC? Yes No
Proceed with Standard TAT as per project history? Yes No Not Applicable
Water - VOA vials have zero headspace? No VOA vials submitted Yes No
Water - pH acceptable upon receipt? Yes No Not Applicable

Adjusted? _____ Checked by _____

Sample Condition: Good Other(Explain) _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes No

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

Client: Arcadis
 Project: Lafarge East Point
 Lab Order: 1305989

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1305989-001A	ZONE 3A-G2	5/9/2013 4:10:00PM	Soil	TOTAL METALS BY ICP		05/15/2013	05/15/2013
1305989-001A	ZONE 3A-G2	5/9/2013 4:10:00PM	Soil	PERCENT MOISTURE			05/15/2013
1305989-002A	ZONE 3A-F1	5/9/2013 4:15:00PM	Soil	TOTAL METALS BY ICP		05/15/2013	05/15/2013
1305989-002A	ZONE 3A-F1	5/9/2013 4:15:00PM	Soil	PERCENT MOISTURE			05/15/2013
1305989-003B	ZONE 3A-E2	5/10/2013 9:55:00AM	Soil	PERCENT MOISTURE			05/15/2013
1305989-003C	ZONE 3A-E2	5/10/2013 9:55:00AM	Soil	TOTAL METALS BY ICP		05/15/2013	05/15/2013
1305989-004A	ZONE 3A-D1	5/9/2013 4:25:00PM	Soil	TOTAL METALS BY ICP		05/15/2013	05/15/2013
1305989-004A	ZONE 3A-D1	5/9/2013 4:25:00PM	Soil	PERCENT MOISTURE			05/15/2013
1305989-005A	ZONE 3A-E2-SOUTH WALL	5/9/2013 4:40:00PM	Soil	TOTAL METALS BY ICP		05/15/2013	05/15/2013
1305989-005A	ZONE 3A-E2-SOUTH WALL	5/9/2013 4:40:00PM	Soil	PERCENT MOISTURE			05/15/2013
1305989-006B	ZONE 3A-C2	5/10/2013 9:50:00AM	Soil	PERCENT MOISTURE			05/15/2013
1305989-006C	ZONE 3A-C2	5/10/2013 9:50:00AM	Soil	TOTAL METALS BY ICP		05/15/2013	05/15/2013
1305989-007B	ZONE 3A-B1	5/10/2013 9:45:00AM	Soil	PERCENT MOISTURE			05/15/2013
1305989-007C	ZONE 3A-B1	5/10/2013 9:45:00AM	Soil	TOTAL METALS BY ICP		05/15/2013	05/15/2013
1305989-008B	ZONE 3A-A2	5/10/2013 9:40:00AM	Soil	PERCENT MOISTURE			05/15/2013
1305989-008C	ZONE 3A-A2	5/10/2013 9:40:00AM	Soil	TOTAL METALS BY ICP		05/15/2013	05/15/2013
1305989-009A	ZONE 3A-C2 SOUTH WALL	5/9/2013 5:15:00PM	Soil	TOTAL METALS BY ICP		05/15/2013	05/15/2013
1305989-009A	ZONE 3A-C2 SOUTH WALL	5/9/2013 5:15:00PM	Soil	PERCENT MOISTURE			05/15/2013
1305989-010A	ZONE 3A-A2 SOUTH WALL	5/9/2013 5:20:00PM	Soil	TOTAL METALS BY ICP		05/15/2013	05/15/2013
1305989-010A	ZONE 3A-A2 SOUTH WALL	5/9/2013 5:20:00PM	Soil	PERCENT MOISTURE			05/15/2013
1305989-011B	ZONE 3A-B1 NORTH WALL	5/10/2013 10:00:00AM	Soil	PERCENT MOISTURE			05/15/2013
1305989-011C	ZONE 3A-B1 NORTH WALL	5/10/2013 10:00:00AM	Soil	TOTAL METALS BY ICP		05/15/2013	05/15/2013
1305989-012A	ZONE 3A-D1 NORTH WALL	5/9/2013 5:30:00PM	Soil	TOTAL METALS BY ICP		05/15/2013	05/15/2013
1305989-012A	ZONE 3A-D1 NORTH WALL	5/9/2013 5:30:00PM	Soil	PERCENT MOISTURE			05/15/2013
1305989-013A	ZONE 3A-F1 NORTH WALL	5/9/2013 5:35:00PM	Soil	TOTAL METALS BY ICP		05/15/2013	05/15/2013
1305989-013A	ZONE 3A-F1 NORTH WALL	5/9/2013 5:35:00PM	Soil	PERCENT MOISTURE			05/15/2013
1305989-014A	ZONE 3A-G2 WEST WALL	5/9/2013 5:45:00PM	Soil	TOTAL METALS BY ICP		05/15/2013	05/15/2013
1305989-014A	ZONE 3A-G2 WEST WALL	5/9/2013 5:45:00PM	Soil	PERCENT MOISTURE			05/15/2013

Client: Arcadis
 Project Name: Lafarge East Point
 Workorder: 1305989

ANALYTICAL QC SUMMARY REPORT

BatchID: 176096

Sample ID: MB-176096	Client ID:	Units: mg/Kg	Prep Date: 05/15/2013	Run No: 244115							
SampleType: MBLK	TestCode: METALS, TOTAL SW6010C	BatchID: 176096	Analysis Date: 05/15/2013	Seq No: 5111182							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Lead BRL 5.00 0 0 0 0 0 0 0 0 0 0

Sample ID: LCS-176096	Client ID:	Units: mg/Kg	Prep Date: 05/15/2013	Run No: 244115							
SampleType: LCS	TestCode: METALS, TOTAL SW6010C	BatchID: 176096	Analysis Date: 05/15/2013	Seq No: 5111180							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Lead 51.27 5.00 50.00 0.08823 102 80 120 0 0 0

Sample ID: 1305939-006CMS	Client ID:	Units: mg/Kg-dry	Prep Date: 05/15/2013	Run No: 244115							
SampleType: MS	TestCode: METALS, TOTAL SW6010C	BatchID: 176096	Analysis Date: 05/15/2013	Seq No: 5111186							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Lead 58.68 6.16 61.60 4.428 88.1 75 125 0 0 0

Sample ID: 1305939-006CMSD	Client ID:	Units: mg/Kg-dry	Prep Date: 05/15/2013	Run No: 244115							
SampleType: MSD	TestCode: METALS, TOTAL SW6010C	BatchID: 176096	Analysis Date: 05/15/2013	Seq No: 5111188							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Lead 59.30 6.21 62.07 4.428 88.4 75 125 58.68 1.04 20

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		



June 18, 2013

Peter Cornais
Arcadis
2081 Vista Parkway, Suite 200
West Palm Beach FL 33411

TEL: (850) 445-0829
FAX:

RE: Lafarge EP

Dear Peter Cornais:

Order No: 1305P92

Analytical Environmental Services, Inc. received 3 samples on 5/30/2013 2:00:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/12-06/30/13.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/13.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Chantelle Kanhai
Project Manager

Client: Arcadis
Project: Lafarge EP
Lab ID: 1305P92

Case Narrative

Volatile Organic Compounds Analysis by Method 8260B:

Percent recovery for the internal standard compound 1,4-Dichlorobenzene-d4 on sample 1305P92-003A was outside control limits biased low due to suspected matrix interference.

2-Butanone value for sample 1305P92-002A is "E" qualified indicating an estimated value over linear calibration range. Sample was diluted and reanalyzed with analyte being below reporting limit.

Client: Arcadis	Client Sample ID: ZONE3A-B1
Project Name: Lafarge EP	Collection Date: 5/30/2013 9:20:00 AM
Lab ID: 1305P92-001	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	4.0		ug/Kg-dry	176908	1	06/01/2013 03:26	MD
1,1,2,2-Tetrachloroethane	BRL	4.0		ug/Kg-dry	176908	1	06/01/2013 03:26	MD
1,1,2-Trichloroethane	47	4.0		ug/Kg-dry	176908	1	06/01/2013 03:26	MD
1,1-Dichloroethane	BRL	4.0		ug/Kg-dry	176908	1	06/01/2013 03:26	MD
1,1-Dichloroethene	BRL	4.0		ug/Kg-dry	176908	1	06/01/2013 03:26	MD
1,2,4-Trichlorobenzene	BRL	4.0		ug/Kg-dry	176908	1	06/01/2013 03:26	MD
1,2-Dibromo-3-chloropropane	BRL	4.0		ug/Kg-dry	176908	1	06/01/2013 03:26	MD
1,2-Dibromoethane	BRL	4.0		ug/Kg-dry	176908	1	06/01/2013 03:26	MD
1,2-Dichlorobenzene	BRL	4.0		ug/Kg-dry	176908	1	06/01/2013 03:26	MD
1,2-Dichloroethane	BRL	4.0		ug/Kg-dry	176908	1	06/01/2013 03:26	MD
1,2-Dichloropropane	BRL	4.0		ug/Kg-dry	176908	1	06/01/2013 03:26	MD
1,3-Dichlorobenzene	BRL	4.0		ug/Kg-dry	176908	1	06/01/2013 03:26	MD
1,4-Dichlorobenzene	BRL	4.0		ug/Kg-dry	176908	1	06/01/2013 03:26	MD
2-Butanone	10000	3700		ug/Kg-dry	176799	100	06/04/2013 16:52	YT
2-Hexanone	BRL	7.9		ug/Kg-dry	176908	1	06/01/2013 03:26	MD
4-Methyl-2-pentanone	16000	750		ug/Kg-dry	176799	100	06/04/2013 16:52	YT
Acetone	2000	1500		ug/Kg-dry	176799	100	06/04/2013 16:52	YT
Benzene	470	370		ug/Kg-dry	176799	100	06/04/2013 16:52	YT
Bromodichloromethane	BRL	4.0		ug/Kg-dry	176908	1	06/01/2013 03:26	MD
Bromoform	BRL	4.0		ug/Kg-dry	176908	1	06/01/2013 03:26	MD
Bromomethane	BRL	4.0		ug/Kg-dry	176908	1	06/01/2013 03:26	MD
Carbon disulfide	BRL	7.9		ug/Kg-dry	176908	1	06/01/2013 03:26	MD
Carbon tetrachloride	BRL	4.0		ug/Kg-dry	176908	1	06/01/2013 03:26	MD
Chlorobenzene	5.3	4.0		ug/Kg-dry	176908	1	06/01/2013 03:26	MD
Chloroethane	BRL	7.9		ug/Kg-dry	176908	1	06/01/2013 03:26	MD
Chloroform	BRL	4.0		ug/Kg-dry	176908	1	06/01/2013 03:26	MD
Chloromethane	BRL	7.9		ug/Kg-dry	176908	1	06/01/2013 03:26	MD
cis-1,2-Dichloroethene	2300	370		ug/Kg-dry	176799	100	06/04/2013 16:52	YT
cis-1,3-Dichloropropene	BRL	4.0		ug/Kg-dry	176908	1	06/01/2013 03:26	MD
Cyclohexane	930	370		ug/Kg-dry	176799	100	06/04/2013 16:52	YT
Dibromochloromethane	BRL	4.0		ug/Kg-dry	176908	1	06/01/2013 03:26	MD
Dichlorodifluoromethane	BRL	7.9		ug/Kg-dry	176908	1	06/01/2013 03:26	MD
Ethylbenzene	9200	370		ug/Kg-dry	176799	100	06/04/2013 16:52	YT
Freon-113	BRL	7.9		ug/Kg-dry	176908	1	06/01/2013 03:26	MD
Isopropylbenzene	590	370		ug/Kg-dry	176799	100	06/04/2013 16:52	YT
m,p-Xylene	37000	3700		ug/Kg-dry	176799	1000	06/04/2013 15:54	YT
Methyl acetate	BRL	4.0		ug/Kg-dry	176908	1	06/01/2013 03:26	MD
Methyl tert-butyl ether	BRL	4.0		ug/Kg-dry	176908	1	06/01/2013 03:26	MD
Methylcyclohexane	1900	370		ug/Kg-dry	176799	100	06/04/2013 16:52	YT
Methylene chloride	990	370		ug/Kg-dry	176799	100	06/04/2013 16:52	YT
o-Xylene	9500	370		ug/Kg-dry	176799	100	06/04/2013 16:52	YT

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: ZONE3A-B1
Project Name: Lafarge EP	Collection Date: 5/30/2013 9:20:00 AM
Lab ID: 1305P92-001	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B		(SW5035)						
Styrene	BRL	4.0		ug/Kg-dry	176908	1	06/01/2013 03:26	MD
Tetrachloroethene	120	4.0		ug/Kg-dry	176908	1	06/01/2013 03:26	MD
Toluene	25000	3700		ug/Kg-dry	176799	1000	06/04/2013 15:54	YT
trans-1,2-Dichloroethene	BRL	4.0		ug/Kg-dry	176908	1	06/01/2013 03:26	MD
trans-1,3-Dichloropropene	BRL	4.0		ug/Kg-dry	176908	1	06/01/2013 03:26	MD
Trichloroethene	220000	19000		ug/Kg-dry	176799	5000	06/05/2013 14:40	YT
Trichlorofluoromethane	BRL	4.0		ug/Kg-dry	176908	1	06/01/2013 03:26	MD
Vinyl chloride	BRL	7.9		ug/Kg-dry	176908	1	06/01/2013 03:26	MD
Surr: 4-Bromofluorobenzene	84.4	63.8-133		%REC	176799	5000	06/05/2013 14:40	YT
Surr: 4-Bromofluorobenzene	86	63.8-133		%REC	176908	1	06/01/2013 03:26	MD
Surr: 4-Bromofluorobenzene	99.4	63.8-133		%REC	176799	1000	06/04/2013 15:54	YT
Surr: 4-Bromofluorobenzene	106	63.8-133		%REC	176799	100	06/04/2013 16:52	YT
Surr: Dibromofluoromethane	91.9	74.3-130		%REC	176799	5000	06/05/2013 14:40	YT
Surr: Dibromofluoromethane	87.2	74.3-130		%REC	176799	100	06/04/2013 16:52	YT
Surr: Dibromofluoromethane	87.8	74.3-130		%REC	176799	1000	06/04/2013 15:54	YT
Surr: Dibromofluoromethane	99.7	74.3-130		%REC	176908	1	06/01/2013 03:26	MD
Surr: Toluene-d8	99.2	72.8-122		%REC	176799	5000	06/05/2013 14:40	YT
Surr: Toluene-d8	93.2	72.8-122		%REC	176799	1000	06/04/2013 15:54	YT
Surr: Toluene-d8	93.8	72.8-122		%REC	176799	100	06/04/2013 16:52	YT
Surr: Toluene-d8	109	72.8-122		%REC	176908	1	06/01/2013 03:26	MD
PERCENT MOISTURE D2216								
Percent Moisture	18.9	0		wt%	R245399	1	06/05/2013 09:30	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: ZONE3A-C2
Project Name: Lafarge EP	Collection Date: 5/30/2013 9:25:00 AM
Lab ID: 1305P92-002	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	4.0		ug/Kg-dry	176908	1	06/01/2013 04:23	MD
1,1,2,2-Tetrachloroethane	BRL	4.0		ug/Kg-dry	176908	1	06/01/2013 04:23	MD
1,1,2-Trichloroethane	20	4.0		ug/Kg-dry	176908	1	06/01/2013 04:23	MD
1,1-Dichloroethane	BRL	4.0		ug/Kg-dry	176908	1	06/01/2013 04:23	MD
1,1-Dichloroethene	BRL	4.0		ug/Kg-dry	176908	1	06/01/2013 04:23	MD
1,2,4-Trichlorobenzene	BRL	4.0		ug/Kg-dry	176908	1	06/01/2013 04:23	MD
1,2-Dibromo-3-chloropropane	BRL	4.0		ug/Kg-dry	176908	1	06/01/2013 04:23	MD
1,2-Dibromoethane	BRL	4.0		ug/Kg-dry	176908	1	06/01/2013 04:23	MD
1,2-Dichlorobenzene	BRL	4.0		ug/Kg-dry	176908	1	06/01/2013 04:23	MD
1,2-Dichloroethane	BRL	4.0		ug/Kg-dry	176908	1	06/01/2013 04:23	MD
1,2-Dichloropropane	BRL	4.0		ug/Kg-dry	176908	1	06/01/2013 04:23	MD
1,3-Dichlorobenzene	BRL	4.0		ug/Kg-dry	176908	1	06/01/2013 04:23	MD
1,4-Dichlorobenzene	BRL	4.0		ug/Kg-dry	176908	1	06/01/2013 04:23	MD
2-Butanone	370	40	E	ug/Kg-dry	176908	1	06/01/2013 04:23	MD
2-Hexanone	BRL	7.9		ug/Kg-dry	176908	1	06/01/2013 04:23	MD
4-Methyl-2-pentanone	490	330		ug/Kg-dry	176799	50	06/04/2013 17:21	YT
Acetone	BRL	79		ug/Kg-dry	176908	1	06/01/2013 04:23	MD
Benzene	30	4.0		ug/Kg-dry	176908	1	06/01/2013 04:23	MD
Bromodichloromethane	BRL	4.0		ug/Kg-dry	176908	1	06/01/2013 04:23	MD
Bromoform	BRL	4.0		ug/Kg-dry	176908	1	06/01/2013 04:23	MD
Bromomethane	BRL	4.0		ug/Kg-dry	176908	1	06/01/2013 04:23	MD
Carbon disulfide	BRL	7.9		ug/Kg-dry	176908	1	06/01/2013 04:23	MD
Carbon tetrachloride	BRL	4.0		ug/Kg-dry	176908	1	06/01/2013 04:23	MD
Chlorobenzene	BRL	4.0		ug/Kg-dry	176908	1	06/01/2013 04:23	MD
Chloroethane	BRL	7.9		ug/Kg-dry	176908	1	06/01/2013 04:23	MD
Chloroform	BRL	4.0		ug/Kg-dry	176908	1	06/01/2013 04:23	MD
Chloromethane	BRL	7.9		ug/Kg-dry	176908	1	06/01/2013 04:23	MD
cis-1,2-Dichloroethene	3600	170		ug/Kg-dry	176799	50	06/04/2013 17:21	YT
cis-1,3-Dichloropropene	BRL	4.0		ug/Kg-dry	176908	1	06/01/2013 04:23	MD
Cyclohexane	50	4.0		ug/Kg-dry	176908	1	06/01/2013 04:23	MD
Dibromochloromethane	BRL	4.0		ug/Kg-dry	176908	1	06/01/2013 04:23	MD
Dichlorodifluoromethane	BRL	7.9		ug/Kg-dry	176908	1	06/01/2013 04:23	MD
Ethylbenzene	8200	1700		ug/Kg-dry	176799	500	06/04/2013 16:23	YT
Freon-113	BRL	7.9		ug/Kg-dry	176908	1	06/01/2013 04:23	MD
Isopropylbenzene	79	4.0		ug/Kg-dry	176908	1	06/01/2013 04:23	MD
m,p-Xylene	35000	1700		ug/Kg-dry	176799	500	06/04/2013 16:23	YT
Methyl acetate	BRL	4.0		ug/Kg-dry	176908	1	06/01/2013 04:23	MD
Methyl tert-butyl ether	BRL	4.0		ug/Kg-dry	176908	1	06/01/2013 04:23	MD
Methylcyclohexane	1200	170		ug/Kg-dry	176799	50	06/04/2013 17:21	YT
Methylene chloride	210	170		ug/Kg-dry	176799	50	06/04/2013 17:21	YT
o-Xylene	8100	1700		ug/Kg-dry	176799	500	06/04/2013 16:23	YT

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: ZONE3A-C2
Project Name: Lafarge EP	Collection Date: 5/30/2013 9:25:00 AM
Lab ID: 1305P92-002	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B		(SW5035)						
Styrene	BRL	4.0		ug/Kg-dry	176908	1	06/01/2013 04:23	MD
Tetrachloroethene	76	4.0		ug/Kg-dry	176908	1	06/01/2013 04:23	MD
Toluene	7400	1700		ug/Kg-dry	176799	500	06/04/2013 16:23	YT
trans-1,2-Dichloroethene	BRL	4.0		ug/Kg-dry	176908	1	06/01/2013 04:23	MD
trans-1,3-Dichloropropene	BRL	4.0		ug/Kg-dry	176908	1	06/01/2013 04:23	MD
Trichloroethene	54000	1700		ug/Kg-dry	176799	500	06/04/2013 16:23	YT
Trichlorofluoromethane	BRL	4.0		ug/Kg-dry	176908	1	06/01/2013 04:23	MD
Vinyl chloride	BRL	7.9		ug/Kg-dry	176908	1	06/01/2013 04:23	MD
Surr: 4-Bromofluorobenzene	99.5	63.8-133		%REC	176799	500	06/04/2013 16:23	YT
Surr: 4-Bromofluorobenzene	108	63.8-133		%REC	176799	50	06/04/2013 17:21	YT
Surr: 4-Bromofluorobenzene	91.3	63.8-133		%REC	176908	1	06/01/2013 04:23	MD
Surr: Dibromofluoromethane	88.5	74.3-130		%REC	176799	50	06/04/2013 17:21	YT
Surr: Dibromofluoromethane	92.1	74.3-130		%REC	176799	500	06/04/2013 16:23	YT
Surr: Dibromofluoromethane	95.6	74.3-130		%REC	176908	1	06/01/2013 04:23	MD
Surr: Toluene-d8	91.9	72.8-122		%REC	176799	50	06/04/2013 17:21	YT
Surr: Toluene-d8	92.9	72.8-122		%REC	176799	500	06/04/2013 16:23	YT
Surr: Toluene-d8	101	72.8-122		%REC	176908	1	06/01/2013 04:23	MD
PERCENT MOISTURE D2216								
Percent Moisture	21.9	0		wt%	R245399	1	06/05/2013 09:30	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: ZONE3A-E2
Project Name: Lafarge EP	Collection Date: 5/30/2013 9:30:00 AM
Lab ID: 1305P92-003	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	4.0		ug/Kg-dry	176799	1	06/01/2013 03:55	MD
1,1,2,2-Tetrachloroethane	BRL	4.0		ug/Kg-dry	176799	1	06/01/2013 03:55	MD
1,1,2-Trichloroethane	BRL	4.0		ug/Kg-dry	176799	1	06/01/2013 03:55	MD
1,1-Dichloroethane	BRL	4.0		ug/Kg-dry	176799	1	06/01/2013 03:55	MD
1,1-Dichloroethene	BRL	4.0		ug/Kg-dry	176799	1	06/01/2013 03:55	MD
1,2,4-Trichlorobenzene	BRL	4.0		ug/Kg-dry	176799	1	06/01/2013 03:55	MD
1,2-Dibromo-3-chloropropane	BRL	4.0		ug/Kg-dry	176799	1	06/01/2013 03:55	MD
1,2-Dibromoethane	BRL	4.0		ug/Kg-dry	176799	1	06/01/2013 03:55	MD
1,2-Dichlorobenzene	BRL	4.0		ug/Kg-dry	176799	1	06/01/2013 03:55	MD
1,2-Dichloroethane	BRL	4.0		ug/Kg-dry	176799	1	06/01/2013 03:55	MD
1,2-Dichloropropane	BRL	4.0		ug/Kg-dry	176799	1	06/01/2013 03:55	MD
1,3-Dichlorobenzene	BRL	4.0		ug/Kg-dry	176799	1	06/01/2013 03:55	MD
1,4-Dichlorobenzene	BRL	4.0		ug/Kg-dry	176799	1	06/01/2013 03:55	MD
2-Butanone	BRL	40		ug/Kg-dry	176799	1	06/01/2013 03:55	MD
2-Hexanone	BRL	8.0		ug/Kg-dry	176799	1	06/01/2013 03:55	MD
4-Methyl-2-pentanone	26	8.0		ug/Kg-dry	176799	1	06/01/2013 03:55	MD
Acetone	BRL	80		ug/Kg-dry	176799	1	06/01/2013 03:55	MD
Benzene	BRL	4.0		ug/Kg-dry	176799	1	06/01/2013 03:55	MD
Bromodichloromethane	BRL	4.0		ug/Kg-dry	176799	1	06/01/2013 03:55	MD
Bromoform	BRL	4.0		ug/Kg-dry	176799	1	06/01/2013 03:55	MD
Bromomethane	BRL	4.0		ug/Kg-dry	176799	1	06/01/2013 03:55	MD
Carbon disulfide	BRL	8.0		ug/Kg-dry	176799	1	06/01/2013 03:55	MD
Carbon tetrachloride	BRL	4.0		ug/Kg-dry	176799	1	06/01/2013 03:55	MD
Chlorobenzene	BRL	4.0		ug/Kg-dry	176799	1	06/01/2013 03:55	MD
Chloroethane	BRL	8.0		ug/Kg-dry	176799	1	06/01/2013 03:55	MD
Chloroform	BRL	4.0		ug/Kg-dry	176799	1	06/01/2013 03:55	MD
Chloromethane	BRL	8.0		ug/Kg-dry	176799	1	06/01/2013 03:55	MD
cis-1,2-Dichloroethene	1300	200		ug/Kg-dry	176799	50	06/04/2013 17:50	YT
cis-1,3-Dichloropropene	BRL	4.0		ug/Kg-dry	176799	1	06/01/2013 03:55	MD
Cyclohexane	BRL	4.0		ug/Kg-dry	176799	1	06/01/2013 03:55	MD
Dibromochloromethane	BRL	4.0		ug/Kg-dry	176799	1	06/01/2013 03:55	MD
Dichlorodifluoromethane	BRL	8.0		ug/Kg-dry	176799	1	06/01/2013 03:55	MD
Ethylbenzene	17	4.0		ug/Kg-dry	176799	1	06/01/2013 03:55	MD
Freon-113	BRL	8.0		ug/Kg-dry	176799	1	06/01/2013 03:55	MD
Isopropylbenzene	BRL	4.0		ug/Kg-dry	176799	1	06/01/2013 03:55	MD
m,p-Xylene	87	4.0		ug/Kg-dry	176799	1	06/01/2013 03:55	MD
Methyl acetate	BRL	4.0		ug/Kg-dry	176799	1	06/01/2013 03:55	MD
Methyl tert-butyl ether	BRL	4.0		ug/Kg-dry	176799	1	06/01/2013 03:55	MD
Methylcyclohexane	4.9	4.0		ug/Kg-dry	176799	1	06/01/2013 03:55	MD
Methylene chloride	BRL	16		ug/Kg-dry	176799	1	06/01/2013 03:55	MD
o-Xylene	16	4.0		ug/Kg-dry	176799	1	06/01/2013 03:55	MD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: ZONE3A-E2
Project Name: Lafarge EP	Collection Date: 5/30/2013 9:30:00 AM
Lab ID: 1305P92-003	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B		(SW5035)						
Styrene	BRL	4.0		ug/Kg-dry	176799	1	06/01/2013 03:55	MD
Tetrachloroethene	BRL	4.0		ug/Kg-dry	176799	1	06/01/2013 03:55	MD
Toluene	470	200		ug/Kg-dry	176799	50	06/04/2013 17:50	YT
trans-1,2-Dichloroethene	12	4.0		ug/Kg-dry	176799	1	06/01/2013 03:55	MD
trans-1,3-Dichloropropene	BRL	4.0		ug/Kg-dry	176799	1	06/01/2013 03:55	MD
Trichloroethene	640	200		ug/Kg-dry	176799	50	06/04/2013 17:50	YT
Trichlorofluoromethane	BRL	4.0		ug/Kg-dry	176799	1	06/01/2013 03:55	MD
Vinyl chloride	32	8.0		ug/Kg-dry	176799	1	06/01/2013 03:55	MD
Surr: 4-Bromofluorobenzene	98.3	63.8-133		%REC	176799	50	06/04/2013 17:50	YT
Surr: 4-Bromofluorobenzene	96.1	63.8-133		%REC	176799	1	06/01/2013 03:55	MD
Surr: Dibromofluoromethane	87.4	74.3-130		%REC	176799	50	06/04/2013 17:50	YT
Surr: Dibromofluoromethane	97.3	74.3-130		%REC	176799	1	06/01/2013 03:55	MD
Surr: Toluene-d8	92.8	72.8-122		%REC	176799	50	06/04/2013 17:50	YT
Surr: Toluene-d8	99.5	72.8-122		%REC	176799	1	06/01/2013 03:55	MD
PERCENT MOISTURE D2216								
Percent Moisture	20.4	0		wt%	R245399	1	06/05/2013 09:30	NP

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client ARCADIS

Work Order Number 1305P92

Checklist completed by [Signature] 5/30/13
Signature Date

Carrier name: FedEx UPS Courier Client US Mail Other

Shipping container/cooler in good condition? Yes No Not Present

Custody seals intact on shipping container/cooler? Yes No Not Present

Custody seals intact on sample bottles? Yes No Not Present

Container/Temp Blank temperature in compliance? (4°C±2)* Yes No

Cooler #1 3.6 Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present? Yes No

Chain of custody signed when relinquished and received? Yes No

Chain of custody agrees with sample labels? Yes No

Samples in proper container/bottle? Yes No

Sample containers intact? Yes No

Sufficient sample volume for indicated test? Yes No

All samples received within holding time? Yes No

Was TAT marked on the COC? Yes No

Proceed with Standard TAT as per project history? Yes No Not Applicable

Water - VOA vials have zero headspace? No VOA vials submitted Yes No

Water - pH acceptable upon receipt? Yes No Not Applicable

Adjusted? _____ Checked by _____

Sample Condition: Good Other(Explain) _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes No

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

Client: Arcadis
 Project Name: Lafarge EP
 Workorder: 1305P92

ANALYTICAL QC SUMMARY REPORT

BatchID: 176799

Sample ID: MB-176799	Client ID:	Units: ug/Kg	Prep Date: 05/30/2013	Run No: 244953							
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 176799	Analysis Date: 05/30/2013	Seq No: 5137731							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	BRL	250									
1,1,2,2-Tetrachloroethane	BRL	250									
1,1,2-Trichloroethane	BRL	250									
1,1-Dichloroethane	BRL	250									
1,1-Dichloroethene	BRL	250									
1,2,4-Trichlorobenzene	BRL	250									
1,2-Dibromo-3-chloropropane	BRL	250									
1,2-Dibromoethane	BRL	250									
1,2-Dichlorobenzene	BRL	250									
1,2-Dichloroethane	BRL	250									
1,2-Dichloropropane	BRL	250									
1,3-Dichlorobenzene	BRL	250									
1,4-Dichlorobenzene	BRL	250									
2-Butanone	BRL	2500									
2-Hexanone	BRL	500									
4-Methyl-2-pentanone	BRL	500									
Acetone	BRL	5000									
Benzene	BRL	250									
Bromodichloromethane	BRL	250									
Bromoform	BRL	250									
Bromomethane	BRL	250									
Carbon disulfide	BRL	500									
Carbon tetrachloride	BRL	250									
Chlorobenzene	BRL	250									
Chloroethane	BRL	500									
Chloroform	BRL	250									
Chloromethane	BRL	500									

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
Project Name: Lafarge EP
Workorder: 1305P92

ANALYTICAL QC SUMMARY REPORT

BatchID: 176799

Sample ID: MB-176799	Client ID:	Units: ug/Kg	Prep Date: 05/30/2013	Run No: 244953							
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 176799	Analysis Date: 05/30/2013	Seq No: 5137731							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	BRL	250									
cis-1,3-Dichloropropene	BRL	250									
Cyclohexane	BRL	250									
Dibromochloromethane	BRL	250									
Dichlorodifluoromethane	BRL	500									
Ethylbenzene	BRL	250									
Freon-113	BRL	500									
Isopropylbenzene	BRL	250									
m,p-Xylene	BRL	250									
Methyl acetate	BRL	250									
Methyl tert-butyl ether	BRL	250									
Methylcyclohexane	BRL	250									
Methylene chloride	BRL	1000									
o-Xylene	BRL	250									
Styrene	BRL	250									
Tetrachloroethene	BRL	250									
Toluene	BRL	250									
trans-1,2-Dichloroethene	BRL	250									
trans-1,3-Dichloropropene	BRL	250									
Trichloroethene	BRL	250									
Trichlorofluoromethane	BRL	250									
Vinyl chloride	BRL	500									
Surr: 4-Bromofluorobenzene	2436	0	2500		97.4	63.8	133				
Surr: Dibromofluoromethane	2336	0	2500		93.4	74.3	130				
Surr: Toluene-d8	2386	0	2500		95.5	72.8	122				

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
 Project Name: Lafarge EP
 Workorder: 1305P92

ANALYTICAL QC SUMMARY REPORT

BatchID: 176799

Sample ID: LCS-176799	Client ID:	Units: ug/Kg	Prep Date: 05/30/2013	Run No: 244953							
SampleType: LCS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 176799	Analysis Date: 05/30/2013	Seq No: 5137730							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	2404	250	2500		96.2	63.1	140				
Benzene	2287	250	2500		91.5	70.2	130				
Chlorobenzene	2198	250	2500		87.9	70	126				
Toluene	2367	250	2500		94.7	70.5	130				
Trichloroethene	2507	250	2500		100	70	135				
Surr: 4-Bromofluorobenzene	2466	0	2500		98.7	63.8	133				
Surr: Dibromofluoromethane	2428	0	2500		97.1	74.3	130				
Surr: Toluene-d8	2435	0	2500		97.4	72.8	122				

Sample ID: 1305M86-026AMS	Client ID:	Units: ug/Kg-dry	Prep Date: 05/30/2013	Run No: 244953							
SampleType: MS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 176799	Analysis Date: 05/30/2013	Seq No: 5137733							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	1702	160	1599		106	58.8	157				
Benzene	1644	160	1599		103	66.3	139				
Chlorobenzene	1574	160	1599		98.4	67.8	131				
Toluene	1717	160	1599		107	66	138				
Trichloroethene	2030	160	1599	251.3	111	72.5	141				
Surr: 4-Bromofluorobenzene	1568	0	1599		98.1	63.8	133				
Surr: Dibromofluoromethane	1496	0	1599		93.6	74.3	130				
Surr: Toluene-d8	1579	0	1599		98.8	72.8	122				

Sample ID: 1305M86-026AMSD	Client ID:	Units: ug/Kg-dry	Prep Date: 05/30/2013	Run No: 244953							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 176799	Analysis Date: 05/30/2013	Seq No: 5137734							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	1620	160	1599		101	58.8	157	1702	4.95	21.9	
Benzene	1622	160	1599		101	66.3	139	1644	1.37	22.3	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
 Project Name: Lafarge EP
 Workorder: 1305P92

ANALYTICAL QC SUMMARY REPORT

BatchID: 176799

Sample ID: 1305M86-026AMSD	Client ID:	Units: ug/Kg-dry	Prep Date: 05/30/2013	Run No: 244953
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 176799	Analysis Date: 05/30/2013	Seq No: 5137734

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	1570	160	1599		98.2	67.8	131	1574	0.224	17.3	
Toluene	1682	160	1599		105	66	138	1717	2.09	18.1	
Trichloroethene	1997	160	1599	251.3	109	72.5	141	2030	1.62	18.7	
Surr: 4-Bromofluorobenzene	1541	0	1599		96.4	63.8	133	1568	0	0	
Surr: Dibromofluoromethane	1520	0	1599		95.1	74.3	130	1496	0	0	
Surr: Toluene-d8	1570	0	1599		98.2	72.8	122	1579	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
 Project Name: Lafarge EP
 Workorder: 1305P92

ANALYTICAL QC SUMMARY REPORT

BatchID: 176908

Sample ID: MB-176908	Client ID:	Units: ug/Kg	Prep Date: 05/31/2013	Run No: 245132							
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 176908	Analysis Date: 05/31/2013	Seq No: 5134509							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
2-Butanone	BRL	50									
2-Hexanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	100									
Benzene	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon disulfide	BRL	10									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									
Chloroform	BRL	5.0									
Chloromethane	BRL	10									

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
 Project Name: Lafarge EP
 Workorder: 1305P92

ANALYTICAL QC SUMMARY REPORT

BatchID: 176908

Sample ID: MB-176908	Client ID:	Units: ug/Kg	Prep Date: 05/31/2013	Run No: 245132							
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 176908	Analysis Date: 05/31/2013	Seq No: 5134509							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	20									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	10									
Surr: 4-Bromofluorobenzene	48.65	0	50.00		97.3	63.8	133				
Surr: Dibromofluoromethane	47.37	0	50.00		94.7	74.3	130				
Surr: Toluene-d8	50.65	0	50.00		101	72.8	122				

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
 Project Name: Lafarge EP
 Workorder: 1305P92

ANALYTICAL QC SUMMARY REPORT

BatchID: 176908

Sample ID: LCS-176908	Client ID:	Units: ug/Kg	Prep Date: 05/31/2013	Run No: 245132							
SampleType: LCS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 176908	Analysis Date: 05/31/2013	Seq No: 5134512							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	41.92	5.0	50.00		83.8	63.1	140				
Benzene	44.78	5.0	50.00		89.6	70.2	130				
Chlorobenzene	42.15	5.0	50.00		84.3	70	126				
Toluene	46.03	5.0	50.00		92.1	70.5	130				
Trichloroethene	47.32	5.0	50.00		94.6	70	135				
Surr: 4-Bromofluorobenzene	51.80	0	50.00		104	63.8	133				
Surr: Dibromofluoromethane	49.40	0	50.00		98.8	74.3	130				
Surr: Toluene-d8	48.81	0	50.00		97.6	72.8	122				

Sample ID: 1305O85-001AMS	Client ID:	Units: ug/Kg-dry	Prep Date: 05/31/2013	Run No: 245132							
SampleType: MS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 176908	Analysis Date: 05/31/2013	Seq No: 5134515							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	60.82	7.3	73.35		82.9	58.8	157				
Benzene	66.81	7.3	73.35		91.1	66.3	139				
Chlorobenzene	63.29	7.3	73.35		86.3	67.8	131				
Toluene	71.79	7.3	73.35		97.9	66	138				
Trichloroethene	71.99	7.3	73.35		98.1	72.5	141				
Surr: 4-Bromofluorobenzene	77.68	0	73.35		106	63.8	133				
Surr: Dibromofluoromethane	72.53	0	73.35		98.9	74.3	130				
Surr: Toluene-d8	72.91	0	73.35		99.4	72.8	122				

Sample ID: 1305O85-001AMSD	Client ID:	Units: ug/Kg-dry	Prep Date: 05/31/2013	Run No: 245132							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 176908	Analysis Date: 05/31/2013	Seq No: 5134518							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	62.16	7.3	73.35		84.7	58.8	157	60.82	2.17	21.9	
Benzene	67.19	7.3	73.35		91.6	66.3	139	66.81	0.569	22.3	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
 Project Name: Lafarge EP
 Workorder: 1305P92

ANALYTICAL QC SUMMARY REPORT

BatchID: 176908

Sample ID: 1305O85-001AMSD	Client ID:	Units: ug/Kg-dry	Prep Date: 05/31/2013	Run No: 245132
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 176908	Analysis Date: 05/31/2013	Seq No: 5134518

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	64.21	7.3	73.35		87.5	67.8	131	63.29	1.45	17.3	
Toluene	71.38	7.3	73.35		97.3	66	138	71.79	0.574	18.1	
Trichloroethene	70.81	7.3	73.35		96.5	72.5	141	71.99	1.64	18.7	
Surr: 4-Bromofluorobenzene	76.18	0	73.35		104	63.8	133	77.68	0	0	
Surr: Dibromofluoromethane	72.91	0	73.35		99.4	74.3	130	72.53	0	0	
Surr: Toluene-d8	75.81	0	73.35		103	72.8	122	72.91	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		



June 18, 2013

Peter Cornais
Arcadis
2081 Vista Parkway, Suite 200
West Palm Beach FL 33411

TEL: (850) 445-0829
FAX:

RE: Lafarge EP

Dear Peter Cornais:

Order No: 1305093

Analytical Environmental Services, Inc. received 22 samples on 5/29/2013 2:05:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/12-06/30/13.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/13.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Chantelle Kanhai
Project Manager

Client: Arcadis
Project: Lafarge EP
Lab ID: 1305O93

Case Narrative

Sample Receipt Nonconformance:

Sample "ZONE 3b-F4" (1305O93-022) was received but was not listed on the Chain of Custody. Per Peter Cornais on 5/30/2013 via email, the sample was analyzed for Lead.

The container for 1305O93-017 was labeled as "ZONE 3b-H4 S. WALL" with a collection date and time of 5/29/13 at 11:50AM. The sample was logged in as "ZONE 3b-H4-S. WALL" according to the Chain of Custody.

Analytical Environmental Services, Inc

Date: 18-Jun-13

Client: Arcadis	Client Sample ID: ZONE 3b-A1
Project Name: Lafarge EP	Collection Date: 5/29/2013 10:48:00 AM
Lab ID: 1305O93-001	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					(SW3050B)			
Lead	367	5.18		mg/Kg-dry	176843	1	06/03/2013 20:51	MR
PERCENT MOISTURE D2216								
Percent Moisture	11.3	0		wt%	R245296	1	06/04/2013 08:00	AK

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 18-Jun-13

Client: Arcadis	Client Sample ID: ZONE 3b-B2
Project Name: Lafarge EP	Collection Date: 5/29/2013 10:50:00 AM
Lab ID: 1305O93-002	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					(SW3050B)			
Lead	442	5.69		mg/Kg-dry	176843	1	06/03/2013 20:55	MR
PERCENT MOISTURE D2216								
Percent Moisture	12.6	0		wt%	R245296	1	06/04/2013 08:00	AK

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 18-Jun-13

Client: Arcadis	Client Sample ID: ZONE 3b-C1
Project Name: Lafarge EP	Collection Date: 5/29/2013 10:55:00 AM
Lab ID: 1305O93-003	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					(SW3050B)			
Lead	63.8	5.97		mg/Kg-dry	176843	1	06/03/2013 20:59	MR
PERCENT MOISTURE D2216								
Percent Moisture	18.3	0		wt%	R245296	1	06/04/2013 08:00	AK

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: ZONE 3b-D2
Project Name: Lafarge EP	Collection Date: 5/29/2013 10:56:00 AM
Lab ID: 1305O93-004	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					(SW3050B)			
Lead	246	5.55		mg/Kg-dry	176843	1	06/03/2013 21:03	MR
PERCENT MOISTURE D2216								
Percent Moisture	12.0	0		wt%	R245296	1	06/04/2013 08:00	AK

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 18-Jun-13

Client: Arcadis	Client Sample ID: ZONE 3b-E1
Project Name: Lafarge EP	Collection Date: 5/29/2013 10:58:00 AM
Lab ID: 1305O93-005	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					(SW3050B)			
Lead	561	5.56		mg/Kg-dry	176843	1	06/03/2013 21:07	MR
PERCENT MOISTURE D2216								
Percent Moisture	13.2	0		wt%	R245296	1	06/04/2013 08:00	AK

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 18-Jun-13

Client: Arcadis	Client Sample ID: ZONE 3b-F2
Project Name: Lafarge EP	Collection Date: 5/29/2013 11:00:00 AM
Lab ID: 1305O93-006	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					(SW3050B)			
Lead	576	5.57		mg/Kg-dry	176843	1	06/03/2013 21:11	MR
PERCENT MOISTURE D2216								
Percent Moisture	11.2	0		wt%	R245296	1	06/04/2013 08:00	AK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 18-Jun-13

Client: Arcadis	Client Sample ID: ZONE 3b-G1
Project Name: Lafarge EP	Collection Date: 5/29/2013 11:02:00 AM
Lab ID: 1305O93-007	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					(SW3050B)			
Lead	258	5.53		mg/Kg-dry	176843	1	06/03/2013 21:15	MR
PERCENT MOISTURE D2216								
Percent Moisture	12.3	0		wt%	R245296	1	06/04/2013 08:00	AK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 18-Jun-13

Client: Arcadis	Client Sample ID: ZONE 3b-H2
Project Name: Lafarge EP	Collection Date: 5/29/2013 11:04:00 AM
Lab ID: 1305O93-008	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					(SW3050B)			
Lead	520	5.44		mg/Kg-dry	176843	1	06/03/2013 21:19	MR
PERCENT MOISTURE D2216								
Percent Moisture	12.6	0		wt%	R245296	1	06/04/2013 08:00	AK

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 18-Jun-13

Client: Arcadis	Client Sample ID: ZONE 3b-11
Project Name: Lafarge EP	Collection Date: 5/29/2013 11:06:00 AM
Lab ID: 1305O93-009	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					(SW3050B)			
Lead	443	5.62		mg/Kg-dry	176843	1	06/03/2013 21:30	MR
PERCENT MOISTURE D2216								
Percent Moisture	12.9	0		wt%	R245296	1	06/04/2013 08:00	AK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 18-Jun-13

Client: Arcadis	Client Sample ID: ZONE 3b-J2
Project Name: Lafarge EP	Collection Date: 5/29/2013 11:08:00 AM
Lab ID: 1305O93-010	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					(SW3050B)			
Lead	46.4	6.20		mg/Kg-dry	176843	1	06/03/2013 21:34	MR
PERCENT MOISTURE D2216								
Percent Moisture	19.8	0		wt%	R245296	1	06/04/2013 08:00	AK

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 18-Jun-13

Client: Arcadis	Client Sample ID: ZONE 3b-G3
Project Name: Lafarge EP	Collection Date: 5/29/2013 11:10:00 AM
Lab ID: 1305O93-011	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					(SW3050B)			
Lead	376	5.59		mg/Kg-dry	176843	1	06/03/2013 21:38	MR
PERCENT MOISTURE D2216								
Percent Moisture	14.4	0		wt%	R245296	1	06/04/2013 08:00	AK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 18-Jun-13

Client: Arcadis	Client Sample ID: ZONE 3b-I3
Project Name: Lafarge EP	Collection Date: 5/29/2013 11:12:00 AM
Lab ID: 1305O93-012	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					(SW3050B)			
Lead	569	5.59		mg/Kg-dry	176843	1	06/03/2013 21:42	MR
PERCENT MOISTURE D2216								
Percent Moisture	10.9	0		wt%	R245296	1	06/04/2013 08:00	AK

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 18-Jun-13

Client: Arcadis	Client Sample ID: ZONE 3b-J4
Project Name: Lafarge EP	Collection Date: 5/29/2013 11:16:00 AM
Lab ID: 1305O93-013	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					(SW3050B)			
Lead	514	5.50		mg/Kg-dry	176843	1	06/03/2013 21:46	MR
PERCENT MOISTURE D2216								
Percent Moisture	11.4	0		wt%	R245296	1	06/04/2013 08:00	AK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 18-Jun-13

Client: Arcadis	Client Sample ID: ZONE 3b-A1-N. WALL
Project Name: Lafarge EP	Collection Date: 5/29/2013 11:38:00 AM
Lab ID: 1305O93-014	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					(SW3050B)			
Lead	437	5.43		mg/Kg-dry	176843	1	06/03/2013 21:51	MR
PERCENT MOISTURE D2216								
Percent Moisture	11.1	0		wt%	R245296	1	06/04/2013 08:00	AK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 18-Jun-13

Client: Arcadis	Client Sample ID: ZONE 3b-J1-E. WALL
Project Name: Lafarge EP	Collection Date: 5/29/2013 11:40:00 AM
Lab ID: 1305O93-015	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					(SW3050B)			
Lead	323	5.49		mg/Kg-dry	176852	1	06/02/2013 18:16	TA
PERCENT MOISTURE D2216								
Percent Moisture	9.06	0		wt%	R245296	1	06/04/2013 08:00	AK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis
 Project Name: Lafarge EP
 Lab ID: 1305O93-016

Client Sample ID: ZONE 3b-J4-E. WALL
 Collection Date: 5/29/2013 11:45:00 AM
 Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	4.5		ug/Kg-dry	176908	1	05/31/2013 20:46	MD
1,1,2,2-Tetrachloroethane	BRL	4.5		ug/Kg-dry	176908	1	05/31/2013 20:46	MD
1,1,2-Trichloroethane	BRL	4.5		ug/Kg-dry	176908	1	05/31/2013 20:46	MD
1,1-Dichloroethane	BRL	4.5		ug/Kg-dry	176908	1	05/31/2013 20:46	MD
1,1-Dichloroethene	BRL	4.5		ug/Kg-dry	176908	1	05/31/2013 20:46	MD
1,2,4-Trichlorobenzene	BRL	4.5		ug/Kg-dry	176908	1	05/31/2013 20:46	MD
1,2-Dibromo-3-chloropropane	BRL	4.5		ug/Kg-dry	176908	1	05/31/2013 20:46	MD
1,2-Dibromoethane	BRL	4.5		ug/Kg-dry	176908	1	05/31/2013 20:46	MD
1,2-Dichlorobenzene	BRL	4.5		ug/Kg-dry	176908	1	05/31/2013 20:46	MD
1,2-Dichloroethane	BRL	4.5		ug/Kg-dry	176908	1	05/31/2013 20:46	MD
1,2-Dichloropropane	BRL	4.5		ug/Kg-dry	176908	1	05/31/2013 20:46	MD
1,3-Dichlorobenzene	BRL	4.5		ug/Kg-dry	176908	1	05/31/2013 20:46	MD
1,4-Dichlorobenzene	BRL	4.5		ug/Kg-dry	176908	1	05/31/2013 20:46	MD
2-Butanone	BRL	45		ug/Kg-dry	176908	1	05/31/2013 20:46	MD
2-Hexanone	BRL	8.9		ug/Kg-dry	176908	1	05/31/2013 20:46	MD
4-Methyl-2-pentanone	BRL	8.9		ug/Kg-dry	176908	1	05/31/2013 20:46	MD
Acetone	140	89		ug/Kg-dry	176908	1	05/31/2013 20:46	MD
Benzene	BRL	4.5		ug/Kg-dry	176908	1	05/31/2013 20:46	MD
Bromodichloromethane	BRL	4.5		ug/Kg-dry	176908	1	05/31/2013 20:46	MD
Bromoform	BRL	4.5		ug/Kg-dry	176908	1	05/31/2013 20:46	MD
Bromomethane	BRL	4.5		ug/Kg-dry	176908	1	05/31/2013 20:46	MD
Carbon disulfide	BRL	8.9		ug/Kg-dry	176908	1	05/31/2013 20:46	MD
Carbon tetrachloride	BRL	4.5		ug/Kg-dry	176908	1	05/31/2013 20:46	MD
Chlorobenzene	BRL	4.5		ug/Kg-dry	176908	1	05/31/2013 20:46	MD
Chloroethane	BRL	8.9		ug/Kg-dry	176908	1	05/31/2013 20:46	MD
Chloroform	BRL	4.5		ug/Kg-dry	176908	1	05/31/2013 20:46	MD
Chloromethane	BRL	8.9		ug/Kg-dry	176908	1	05/31/2013 20:46	MD
cis-1,2-Dichloroethene	BRL	4.5		ug/Kg-dry	176908	1	05/31/2013 20:46	MD
cis-1,3-Dichloropropene	BRL	4.5		ug/Kg-dry	176908	1	05/31/2013 20:46	MD
Cyclohexane	BRL	4.5		ug/Kg-dry	176908	1	05/31/2013 20:46	MD
Dibromochloromethane	BRL	4.5		ug/Kg-dry	176908	1	05/31/2013 20:46	MD
Dichlorodifluoromethane	BRL	8.9		ug/Kg-dry	176908	1	05/31/2013 20:46	MD
Ethylbenzene	BRL	4.5		ug/Kg-dry	176908	1	05/31/2013 20:46	MD
Freon-113	BRL	8.9		ug/Kg-dry	176908	1	05/31/2013 20:46	MD
Isopropylbenzene	BRL	4.5		ug/Kg-dry	176908	1	05/31/2013 20:46	MD
m,p-Xylene	BRL	4.5		ug/Kg-dry	176908	1	05/31/2013 20:46	MD
Methyl acetate	BRL	4.5		ug/Kg-dry	176908	1	05/31/2013 20:46	MD
Methyl tert-butyl ether	BRL	4.5		ug/Kg-dry	176908	1	05/31/2013 20:46	MD
Methylcyclohexane	BRL	4.5		ug/Kg-dry	176908	1	05/31/2013 20:46	MD
Methylene chloride	BRL	18		ug/Kg-dry	176908	1	05/31/2013 20:46	MD
o-Xylene	BRL	4.5		ug/Kg-dry	176908	1	05/31/2013 20:46	MD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: ZONE 3b-J4-E. WALL
Project Name: Lafarge EP	Collection Date: 5/29/2013 11:45:00 AM
Lab ID: 1305O93-016	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5035)			
Styrene	BRL	4.5		ug/Kg-dry	176908	1	05/31/2013 20:46	MD
Tetrachloroethene	BRL	4.5		ug/Kg-dry	176908	1	05/31/2013 20:46	MD
Toluene	9.4	4.5		ug/Kg-dry	176908	1	05/31/2013 20:46	MD
trans-1,2-Dichloroethene	BRL	4.5		ug/Kg-dry	176908	1	05/31/2013 20:46	MD
trans-1,3-Dichloropropene	BRL	4.5		ug/Kg-dry	176908	1	05/31/2013 20:46	MD
Trichloroethene	BRL	4.5		ug/Kg-dry	176908	1	05/31/2013 20:46	MD
Trichlorofluoromethane	BRL	4.5		ug/Kg-dry	176908	1	05/31/2013 20:46	MD
Vinyl chloride	BRL	8.9		ug/Kg-dry	176908	1	05/31/2013 20:46	MD
Surr: 4-Bromofluorobenzene	101	63.8-133		%REC	176908	1	05/31/2013 20:46	MD
Surr: Dibromofluoromethane	98.6	74.3-130		%REC	176908	1	05/31/2013 20:46	MD
Surr: Toluene-d8	96	72.8-122		%REC	176908	1	05/31/2013 20:46	MD
METALS, TOTAL SW6010C					(SW3050B)			
Lead	428	5.01		mg/Kg-dry	176852	1	06/02/2013 19:06	TA
PERCENT MOISTURE D2216								
Percent Moisture	7.23	0		wt%	R245296	1	06/04/2013 08:00	AK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 18-Jun-13

Client: Arcadis	Client Sample ID: ZONE 3b-H4-W. WALL
Project Name: Lafarge EP	Collection Date: 5/29/2013 11:50:00 AM
Lab ID: 1305O93-017	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					(SW3050B)			
Lead	640	5.44		mg/Kg-dry	176852	1	06/02/2013 19:11	TA
PERCENT MOISTURE D2216								
Percent Moisture	14.4	0		wt%	R245296	1	06/04/2013 08:00	AK

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 18-Jun-13

Client: Arcadis	Client Sample ID: ZONE 3b-F3-S. WALL
Project Name: Lafarge EP	Collection Date: 5/29/2013 11:55:00 AM
Lab ID: 1305O93-018	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					(SW3050B)			
Lead	596	5.58		mg/Kg-dry	176852	1	06/02/2013 19:15	TA
PERCENT MOISTURE D2216								
Percent Moisture	11.0	0		wt%	R245296	1	06/04/2013 08:00	AK

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 18-Jun-13

Client: Arcadis	Client Sample ID: ZONE 3b-E4-S. WALL
Project Name: Lafarge EP	Collection Date: 5/29/2013 12:00:00 PM
Lab ID: 1305O93-019	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					(SW3050B)			
Lead	450	7.40		mg/Kg-dry	176852	1	06/02/2013 19:19	TA
PERCENT MOISTURE D2216								
Percent Moisture	33.3	0		wt%	R245296	1	06/04/2013 08:00	AK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 18-Jun-13

Client: Arcadis	Client Sample ID: ZONE 3b-D2-S. WALL
Project Name: Lafarge EP	Collection Date: 5/29/2013 12:05:00 PM
Lab ID: 1305O93-020	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					(SW3050B)			
Lead	185	5.52		mg/Kg-dry	176852	1	06/02/2013 19:23	TA
PERCENT MOISTURE D2216								
Percent Moisture	13.5	0		wt%	R245296	1	06/04/2013 08:00	AK

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 18-Jun-13

Client: Arcadis	Client Sample ID: ZONE 3b-B2-S. WALL
Project Name: Lafarge EP	Collection Date: 5/29/2013 12:10:00 PM
Lab ID: 1305O93-021	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					(SW3050B)			
Lead	586	5.53		mg/Kg-dry	176852	1	06/02/2013 19:27	TA
PERCENT MOISTURE D2216								
Percent Moisture	9.62	0		wt%	R245296	1	06/04/2013 08:00	AK

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: ZONE 3b-F4
Project Name: Lafarge EP	Collection Date: 5/29/2013
Lab ID: 1305O93-022	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					(SW3050B)			
Lead	519	5.46		mg/Kg-dry	176852	1	06/02/2013 19:31	TA
PERCENT MOISTURE D2216								
Percent Moisture	12.6	0		wt%	R245296	1	06/04/2013 08:00	AK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Arcadis Work Order Number 1305093

Checklist completed by [Signature] Date 5/30/13

Carrier name: FedEx UPS Courier Client US Mail Other

Shipping container/cooler in good condition? Yes No Not Present
Custody seals intact on shipping container/cooler? Yes No Not Present
Custody seals intact on sample bottles? Yes No Not Present

Container/Temp Blank temperature in compliance? (4°C±2)* Yes No

Cooler #1 3-4 Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler #5 _____ Cooler #6 _____

Chain of custody present? Yes No
Chain of custody signed when relinquished and received? Yes No
Chain of custody agrees with sample labels? Yes No
Samples in proper container/bottle? Yes No
Sample containers intact? Yes No
Sufficient sample volume for indicated test? Yes No
All samples received within holding time? Yes No
Was TAT marked on the COC? Yes No
Proceed with Standard TAT as per project history? Yes No Not Applicable
Water - VOA vials have zero headspace? No VOA vials submitted Yes No
Water - pH acceptable upon receipt? Yes No Not Applicable

Sample Condition: Good Other(Explain) _____ Adjusted? _____ Checked by _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes No

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

Client: Arcadis
 Project Name: Lafarge EP
 Workorder: 1305093

ANALYTICAL QC SUMMARY REPORT

BatchID: 176843

Sample ID: MB-176843	Client ID:	Units: mg/Kg	Prep Date: 05/31/2013	Run No: 245208							
SampleType: MBLK	TestCode: METALS, TOTAL SW6010C	BatchID: 176843	Analysis Date: 06/03/2013	Seq No: 5136286							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Lead BRL 5.00

Sample ID: LCS-176843	Client ID:	Units: mg/Kg	Prep Date: 05/31/2013	Run No: 245208							
SampleType: LCS	TestCode: METALS, TOTAL SW6010C	BatchID: 176843	Analysis Date: 06/03/2013	Seq No: 5136285							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Lead 52.78 5.00 50.00 106 80 120

Sample ID: 1305P74-072AMS	Client ID:	Units: mg/Kg-dry	Prep Date: 05/31/2013	Run No: 245208							
SampleType: MS	TestCode: METALS, TOTAL SW6010C	BatchID: 176843	Analysis Date: 06/03/2013	Seq No: 5136292							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Lead 84.57 5.49 54.89 37.78 85.2 75 125

Sample ID: 1305P74-072AMSD	Client ID:	Units: mg/Kg-dry	Prep Date: 05/31/2013	Run No: 245208							
SampleType: MSD	TestCode: METALS, TOTAL SW6010C	BatchID: 176843	Analysis Date: 06/03/2013	Seq No: 5136293							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Lead 84.89 5.50 55.03 37.78 85.6 75 125 84.57 0.384 20

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Arcadis
 Project Name: Lafarge EP
 Workorder: 1305093

ANALYTICAL QC SUMMARY REPORT

BatchID: 176852

Sample ID: MB-176852	Client ID:	Units: mg/Kg	Prep Date: 06/01/2013	Run No: 245128							
SampleType: MBLK	TestCode: METALS, TOTAL SW6010C	BatchID: 176852	Analysis Date: 06/02/2013	Seq No: 5134380							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Lead BRL 5.00

Sample ID: LCS-176852	Client ID:	Units: mg/Kg	Prep Date: 06/01/2013	Run No: 245128							
SampleType: LCS	TestCode: METALS, TOTAL SW6010C	BatchID: 176852	Analysis Date: 06/02/2013	Seq No: 5134379							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Lead 47.43 5.00 50.00 94.9 80 120

Sample ID: 1305093-015AMS	Client ID: ZONE 3b-J1-E. WALL	Units: mg/Kg-dry	Prep Date: 06/01/2013	Run No: 245128							
SampleType: MS	TestCode: METALS, TOTAL SW6010C	BatchID: 176852	Analysis Date: 06/02/2013	Seq No: 5134383							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Lead 314.5 5.29 52.92 323.5 -17.1 75 125 S

Sample ID: 1305093-015AMSD	Client ID: ZONE 3b-J1-E. WALL	Units: mg/Kg-dry	Prep Date: 06/01/2013	Run No: 245128							
SampleType: MSD	TestCode: METALS, TOTAL SW6010C	BatchID: 176852	Analysis Date: 06/02/2013	Seq No: 5134385							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Lead 321.6 5.49 54.93 323.5 -3.47 75 125 314.5 2.24 20 S

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Arcadis
 Project Name: Lafarge EP
 Workorder: 1305093

ANALYTICAL QC SUMMARY REPORT

BatchID: 176908

Sample ID: MB-176908	Client ID:	Units: ug/Kg	Prep Date: 05/31/2013	Run No: 245132							
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 176908	Analysis Date: 05/31/2013	Seq No: 5134509							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
2-Butanone	BRL	50									
2-Hexanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	100									
Benzene	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon disulfide	BRL	10									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									
Chloroform	BRL	5.0									
Chloromethane	BRL	10									

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
Project Name: Lafarge EP
Workorder: 1305093

ANALYTICAL QC SUMMARY REPORT

BatchID: 176908

Sample ID: MB-176908	Client ID:	Units: ug/Kg	Prep Date: 05/31/2013	Run No: 245132							
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 176908	Analysis Date: 05/31/2013	Seq No: 5134509							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	20									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	10									
Surr: 4-Bromofluorobenzene	48.65	0	50.00		97.3	63.8	133				
Surr: Dibromofluoromethane	47.37	0	50.00		94.7	74.3	130				
Surr: Toluene-d8	50.65	0	50.00		101	72.8	122				

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
 Project Name: Lafarge EP
 Workorder: 1305093

ANALYTICAL QC SUMMARY REPORT

BatchID: 176908

Sample ID: LCS-176908	Client ID:	Units: ug/Kg	Prep Date: 05/31/2013	Run No: 245132							
SampleType: LCS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 176908	Analysis Date: 05/31/2013	Seq No: 5134512							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	41.92	5.0	50.00		83.8	63.1	140				
Benzene	44.78	5.0	50.00		89.6	70.2	130				
Chlorobenzene	42.15	5.0	50.00		84.3	70	126				
Toluene	46.03	5.0	50.00		92.1	70.5	130				
Trichloroethene	47.32	5.0	50.00		94.6	70	135				
Surr: 4-Bromofluorobenzene	51.80	0	50.00		104	63.8	133				
Surr: Dibromofluoromethane	49.40	0	50.00		98.8	74.3	130				
Surr: Toluene-d8	48.81	0	50.00		97.6	72.8	122				

Sample ID: 1305085-001AMS	Client ID:	Units: ug/Kg-dry	Prep Date: 05/31/2013	Run No: 245132							
SampleType: MS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 176908	Analysis Date: 05/31/2013	Seq No: 5134515							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	60.82	7.3	73.35		82.9	58.8	157				
Benzene	66.81	7.3	73.35		91.1	66.3	139				
Chlorobenzene	63.29	7.3	73.35		86.3	67.8	131				
Toluene	71.79	7.3	73.35		97.9	66	138				
Trichloroethene	71.99	7.3	73.35		98.1	72.5	141				
Surr: 4-Bromofluorobenzene	77.68	0	73.35		106	63.8	133				
Surr: Dibromofluoromethane	72.53	0	73.35		98.9	74.3	130				
Surr: Toluene-d8	72.91	0	73.35		99.4	72.8	122				

Sample ID: 1305085-001AMSD	Client ID:	Units: ug/Kg-dry	Prep Date: 05/31/2013	Run No: 245132							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 176908	Analysis Date: 05/31/2013	Seq No: 5134518							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	62.16	7.3	73.35		84.7	58.8	157	60.82	2.17	21.9	
Benzene	67.19	7.3	73.35		91.6	66.3	139	66.81	0.569	22.3	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
 Project Name: Lafarge EP
 Workorder: 1305093

ANALYTICAL QC SUMMARY REPORT

BatchID: 176908

Sample ID: 1305085-001AMSD	Client ID:	Units: ug/Kg-dry	Prep Date: 05/31/2013	Run No: 245132							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 176908	Analysis Date: 05/31/2013	Seq No: 5134518							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chlorobenzene	64.21	7.3	73.35		87.5	67.8	131	63.29	1.45	17.3	
Toluene	71.38	7.3	73.35		97.3	66	138	71.79	0.574	18.1	
Trichloroethene	70.81	7.3	73.35		96.5	72.5	141	71.99	1.64	18.7	
Surr: 4-Bromofluorobenzene	76.18	0	73.35		104	63.8	133	77.68	0	0	
Surr: Dibromofluoromethane	72.91	0	73.35		99.4	74.3	130	72.53	0	0	
Surr: Toluene-d8	75.81	0	73.35		103	72.8	122	72.91	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		



June 27, 2013

Peter Cornais
Arcadis
2081 Vista Parkway, Suite 200
West Palm Beach FL 33411

TEL: (850) 445-0829
FAX:

RE: Lafarge East Point

Dear Peter Cornais:

Order No: 1306C97

Analytical Environmental Services, Inc. received 14 samples on 6/13/2013 3:20:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/12-06/30/13.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/13.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Chantelle Kanhai
Project Manager



ANALYTICAL ENVIRONMENTAL SERVICES, INC

3785 Presidential Parkway, Atlanta GA 30340-3704

TEL: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1306091

Date: 6/14/13 Page 1 of 2

COMPANY: ARCADIS		ADDRESS: 1800 Cobb Place Blvd Bld. 500-A Kennesaw GA 30144				ANALYSIS REQUESTED										Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.		No # of Containers
PHONE: 404-952-1602		FAX: Cecilia.reagan@arcadis-us.com				Lead	VOC	VOC										
SAMPLED BY: K. maloney, M. Myers		SIGNATURE: <i>[Signature]</i>				PRESERVATION (See codes)										REMARKS		
#	SAMPLE ID	DATE	TIME	Grab	Composite	Matrix (See codes)	I	II	III	IV	V	VI	VII	VIII	IX			
1	Zone 3C - A1	6/11/13	1730	X		SO	X	X	X									5
2	Zone 3C - C1	6/12/13	710	X		SO	X											1
3	Zone 3C - E1	6/12/13	713	X		SO	X											1
4	Zone 3C - B2	6/12/13	715	X		SO	X											1
5	Zone 3C - D2	6/12/13	717	X		SO	X											1
6	Zone 3C - A3	6/12/13	718	X		SO	X											1
7	Zone 3C - C3	6/12/13	720	X		SO	X											1
8	Zone 3C - E3	6/12/13	722	X		SO	X											1
9	Zone 3C - B4	6/12/13	730	X		SO	X											1
10	Zone 3C - D4	6/12/13	730	X		SO	X											1
11	Zone 3C - C1 South wall	6/12/13	732	X		SO	X											1
12	Zone 3C - E1 West wall	6/12/13	734	X		SO	X											1
13	Zone 3C - E4 West wall	6/12/13	736	X		SO	X											1
14	Zone 3C - A3 East wall	6/12/13	738	X		SO	X											1
RELINQUISHED BY: <i>[Signature]</i>		DATE/TIME: 6/13/13 1520	RECEIVED BY: <i>[Signature]</i>		DATE/TIME: 6/13/13 3:00	PROJECT INFORMATION										RECEIPT		
1:		2:		3:		PROJECT NAME: Lafarge East Point										Total # of Containers		
2:		3:		3:		PROJECT #: HT212576										Turnaround Time Request		
3:		3:		3:		SITE ADDRESS: 2675 N. Martin St.										Standard 5 Business Days		
SPECIAL INSTRUCTIONS/COMMENTS:		SHIPMENT METHOD		INVOICE TO:		SEND REPORT TO: Peter.Cornais@arcadis-us.com										2 Business Day Rush		
		OUT VIA: IN VIA:		(IF DIFFERENT FROM ABOVE)		US.COM										Next Business Day Rush		
		CLIENT FedEx UPS MAIL COURIER		QUOTE #:		PO#:										Same Day Rush (auth req.)		
		GREYHOUND OTHER														Other		
																STATE PROGRAM (if any):		
																E-mail? Y/N; Fax? Y/N		
																DATA PACKAGE: I II III IV		

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES. SAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMPLETION UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water
PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

Client: Arcadis
Project: Lafarge East Point
Lab ID: 1306C97

Case Narrative

Sample Receipt Nonconformance:

The container for sample "ZONE 3C-E3" was labeled as " ZONE 3E-G3" with collection date and time of 6/12/13 at 7:22. The sample was logged in according to the Chain of Custody.

Volatiles Organic Compounds Analysis by Method 8260B:

Due to sample matrix, sample 1306C97-001 required dilution during preparation and/or analysis resulting in elevated reporting limits.

Client: Arcadis	Client Sample ID: ZONE 3C-A1
Project Name: Lafarge East Point	Collection Date: 6/11/2013 5:45:00 PM
Lab ID: 1306C97-001	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	180		ug/Kg-dry	177552	50	06/18/2013 19:17	GK
1,1,2,2-Tetrachloroethane	BRL	180		ug/Kg-dry	177552	50	06/18/2013 19:17	GK
1,1,2-Trichloroethane	BRL	180		ug/Kg-dry	177552	50	06/18/2013 19:17	GK
1,1-Dichloroethane	BRL	180		ug/Kg-dry	177552	50	06/18/2013 19:17	GK
1,1-Dichloroethene	BRL	180		ug/Kg-dry	177552	50	06/18/2013 19:17	GK
1,2,4-Trichlorobenzene	BRL	180		ug/Kg-dry	177552	50	06/18/2013 19:17	GK
1,2-Dibromo-3-chloropropane	BRL	180		ug/Kg-dry	177552	50	06/18/2013 19:17	GK
1,2-Dibromoethane	BRL	180		ug/Kg-dry	177552	50	06/18/2013 19:17	GK
1,2-Dichlorobenzene	BRL	180		ug/Kg-dry	177552	50	06/18/2013 19:17	GK
1,2-Dichloroethane	BRL	180		ug/Kg-dry	177552	50	06/18/2013 19:17	GK
1,2-Dichloropropane	BRL	180		ug/Kg-dry	177552	50	06/18/2013 19:17	GK
1,3-Dichlorobenzene	BRL	180		ug/Kg-dry	177552	50	06/18/2013 19:17	GK
1,4-Dichlorobenzene	BRL	180		ug/Kg-dry	177552	50	06/18/2013 19:17	GK
2-Butanone	BRL	1800		ug/Kg-dry	177552	50	06/18/2013 19:17	GK
2-Hexanone	BRL	360		ug/Kg-dry	177552	50	06/18/2013 19:17	GK
4-Methyl-2-pentanone	BRL	360		ug/Kg-dry	177552	50	06/18/2013 19:17	GK
Acetone	BRL	3600		ug/Kg-dry	177552	50	06/18/2013 19:17	GK
Benzene	BRL	180		ug/Kg-dry	177552	50	06/18/2013 19:17	GK
Bromodichloromethane	BRL	180		ug/Kg-dry	177552	50	06/18/2013 19:17	GK
Bromoform	BRL	180		ug/Kg-dry	177552	50	06/18/2013 19:17	GK
Bromomethane	BRL	180		ug/Kg-dry	177552	50	06/18/2013 19:17	GK
Carbon disulfide	BRL	360		ug/Kg-dry	177552	50	06/18/2013 19:17	GK
Carbon tetrachloride	BRL	180		ug/Kg-dry	177552	50	06/18/2013 19:17	GK
Chlorobenzene	BRL	180		ug/Kg-dry	177552	50	06/18/2013 19:17	GK
Chloroethane	BRL	360		ug/Kg-dry	177552	50	06/18/2013 19:17	GK
Chloroform	BRL	180		ug/Kg-dry	177552	50	06/18/2013 19:17	GK
Chloromethane	BRL	360		ug/Kg-dry	177552	50	06/18/2013 19:17	GK
cis-1,2-Dichloroethene	BRL	180		ug/Kg-dry	177552	50	06/18/2013 19:17	GK
cis-1,3-Dichloropropene	BRL	180		ug/Kg-dry	177552	50	06/18/2013 19:17	GK
Cyclohexane	730	180		ug/Kg-dry	177552	50	06/18/2013 19:17	GK
Dibromochloromethane	BRL	180		ug/Kg-dry	177552	50	06/18/2013 19:17	GK
Dichlorodifluoromethane	BRL	360		ug/Kg-dry	177552	50	06/18/2013 19:17	GK
Ethylbenzene	990	180		ug/Kg-dry	177552	50	06/18/2013 19:17	GK
Freon-113	BRL	360		ug/Kg-dry	177552	50	06/18/2013 19:17	GK
Isopropylbenzene	2100	180		ug/Kg-dry	177552	50	06/18/2013 19:17	GK
m,p-Xylene	680	180		ug/Kg-dry	177552	50	06/18/2013 19:17	GK
Methyl acetate	BRL	180		ug/Kg-dry	177552	50	06/18/2013 19:17	GK
Methyl tert-butyl ether	BRL	180		ug/Kg-dry	177552	50	06/18/2013 19:17	GK
Methylcyclohexane	3300	180		ug/Kg-dry	177552	50	06/18/2013 19:17	GK
Methylene chloride	BRL	720		ug/Kg-dry	177552	50	06/18/2013 19:17	GK
o-Xylene	BRL	180		ug/Kg-dry	177552	50	06/18/2013 19:17	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: ZONE 3C-A1
Project Name: Lafarge East Point	Collection Date: 6/11/2013 5:45:00 PM
Lab ID: 1306C97-001	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5035)			
Styrene	BRL	180		ug/Kg-dry	177552	50	06/18/2013 19:17	GK
Tetrachloroethene	BRL	180		ug/Kg-dry	177552	50	06/18/2013 19:17	GK
Toluene	BRL	180		ug/Kg-dry	177552	50	06/18/2013 19:17	GK
trans-1,2-Dichloroethene	BRL	180		ug/Kg-dry	177552	50	06/18/2013 19:17	GK
trans-1,3-Dichloropropene	BRL	180		ug/Kg-dry	177552	50	06/18/2013 19:17	GK
Trichloroethene	BRL	180		ug/Kg-dry	177552	50	06/18/2013 19:17	GK
Trichlorofluoromethane	BRL	180		ug/Kg-dry	177552	50	06/18/2013 19:17	GK
Vinyl chloride	BRL	360		ug/Kg-dry	177552	50	06/18/2013 19:17	GK
Surr: 4-Bromofluorobenzene	230	63.8-133	S	%REC	177552	50	06/18/2013 19:17	GK
Surr: Dibromofluoromethane	86.3	74.3-130		%REC	177552	50	06/18/2013 19:17	GK
Surr: Toluene-d8	102	72.8-122		%REC	177552	50	06/18/2013 19:17	GK
METALS, TOTAL SW6010C					(SW3050B)			
Lead	27.6	5.72		mg/Kg-dry	177548	1	06/20/2013 14:00	MR
PERCENT MOISTURE D2216								
Percent Moisture	15.5	0		wt%	R246376	1	06/18/2013 17:00	LW

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 27-Jun-13

Client: Arcadis	Client Sample ID: ZONE 3C-C1
Project Name: Lafarge East Point	Collection Date: 6/12/2013 7:10:00 AM
Lab ID: 1306C97-002	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					(SW3050B)			
Lead	837	5.47		mg/Kg-dry	177548	1	06/20/2013 14:21	MR
PERCENT MOISTURE D2216								
Percent Moisture	14.6	0		wt%	R246376	1	06/18/2013 17:00	LW

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 27-Jun-13

Client: Arcadis	Client Sample ID: ZONE 3C-E1
Project Name: Lafarge East Point	Collection Date: 6/12/2013 7:13:00 AM
Lab ID: 1306C97-003	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					(SW3050B)			
Lead	667	5.77		mg/Kg-dry	177548	1	06/20/2013 14:25	MR
PERCENT MOISTURE D2216								
Percent Moisture	13.4	0		wt%	R246376	1	06/18/2013 17:00	LW

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 27-Jun-13

Client: Arcadis	Client Sample ID: ZONE 3C-B2
Project Name: Lafarge East Point	Collection Date: 6/12/2013 7:15:00 AM
Lab ID: 1306C97-004	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					(SW3050B)			
Lead	2150	5.21		mg/Kg-dry	177548	1	06/20/2013 14:29	MR
PERCENT MOISTURE D2216								
Percent Moisture	12.0	0		wt%	R246376	1	06/18/2013 17:00	LW

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 27-Jun-13

Client: Arcadis	Client Sample ID: ZONE 3C-D2
Project Name: Lafarge East Point	Collection Date: 6/12/2013 7:17:00 AM
Lab ID: 1306C97-005	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					(SW3050B)			
Lead	307	5.89		mg/Kg-dry	177548	1	06/20/2013 14:34	MR
PERCENT MOISTURE D2216								
Percent Moisture	16.7	0		wt%	R246376	1	06/18/2013 17:00	LW

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 27-Jun-13

Client: Arcadis	Client Sample ID: ZONE 3C-A3
Project Name: Lafarge East Point	Collection Date: 6/12/2013 7:18:00 AM
Lab ID: 1306C97-006	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					(SW3050B)			
Lead	991	5.55		mg/Kg-dry	177548	1	06/20/2013 15:12	MR
PERCENT MOISTURE D2216								
Percent Moisture	11.9	0		wt%	R246376	1	06/18/2013 17:00	LW

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 27-Jun-13

Client: Arcadis	Client Sample ID: ZONE 3C-C3
Project Name: Lafarge East Point	Collection Date: 6/12/2013 7:20:00 AM
Lab ID: 1306C97-007	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					(SW3050B)			
Lead	341	5.35		mg/Kg-dry	177548	1	06/20/2013 15:23	MR
PERCENT MOISTURE D2216								
Percent Moisture	13.3	0		wt%	R246376	1	06/18/2013 17:00	LW

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 27-Jun-13

Client: Arcadis	Client Sample ID: ZONE 3C-E3
Project Name: Lafarge East Point	Collection Date: 6/12/2013 7:22:00 AM
Lab ID: 1306C97-008	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					(SW3050B)			
Lead	452	5.07		mg/Kg-dry	177548	1	06/20/2013 15:27	MR
PERCENT MOISTURE D2216								
Percent Moisture	9.89	0		wt%	R246376	1	06/18/2013 17:00	LW

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 27-Jun-13

Client: Arcadis	Client Sample ID: ZONE 3C-B4
Project Name: Lafarge East Point	Collection Date: 6/12/2013 7:25:00 AM
Lab ID: 1306C97-009	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					(SW3050B)			
Lead	170	5.20		mg/Kg-dry	177548	1	06/20/2013 15:31	MR
PERCENT MOISTURE D2216								
Percent Moisture	11.5	0		wt%	R246376	1	06/18/2013 17:00	LW

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 27-Jun-13

Client: Arcadis	Client Sample ID: ZONE 3C-D4
Project Name: Lafarge East Point	Collection Date: 6/12/2013 7:30:00 AM
Lab ID: 1306C97-010	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					(SW3050B)			
Lead	1190	5.68		mg/Kg-dry	177548	1	06/20/2013 15:35	MR
PERCENT MOISTURE D2216								
Percent Moisture	16.2	0		wt%	R246376	1	06/18/2013 17:00	LW

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 27-Jun-13

Client: Arcadis	Client Sample ID: ZONE 3C-C1 SOUTH WALL
Project Name: Lafarge East Point	Collection Date: 6/12/2013 7:32:00 AM
Lab ID: 1306C97-011	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					(SW3050B)			
Lead	243	5.60		mg/Kg-dry	177548	1	06/20/2013 15:39	MR
PERCENT MOISTURE D2216								
Percent Moisture	18.6	0		wt%	R246376	1	06/18/2013 17:00	LW

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 27-Jun-13

Client: Arcadis	Client Sample ID: ZONE 3C-E1 WEST WALL
Project Name: Lafarge East Point	Collection Date: 6/12/2013 7:34:00 AM
Lab ID: 1306C97-012	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					(SW3050B)			
Lead	695	6.01		mg/Kg-dry	177548	1	06/20/2013 15:43	MR
PERCENT MOISTURE D2216								
Percent Moisture	22.6	0		wt%	R246376	1	06/18/2013 17:00	LW

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 27-Jun-13

Client: Arcadis	Client Sample ID: ZONE 3C-E4 WEST WALL
Project Name: Lafarge East Point	Collection Date: 6/12/2013 7:36:00 AM
Lab ID: 1306C97-013	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					(SW3050B)			
Lead	228	6.62		mg/Kg-dry	177548	1	06/20/2013 15:47	MR
PERCENT MOISTURE D2216								
Percent Moisture	25.0	0		wt%	R246376	1	06/18/2013 17:00	LW

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 27-Jun-13

Client: Arcadis	Client Sample ID: ZONE 3C-A3 EAST WALL
Project Name: Lafarge East Point	Collection Date: 6/12/2013 7:38:00 AM
Lab ID: 1306C97-014	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					(SW3050B)			
Lead	576	5.25		mg/Kg-dry	177548	1	06/20/2013 15:51	MR
PERCENT MOISTURE D2216								
Percent Moisture	12.3	0		wt%	R246376	1	06/18/2013 17:00	LW

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Arcadis Work Order Number 1306C97

Checklist completed by [Signature] Date 6/14/13

Carrier name: FedEx UPS Courier Client US Mail Other

Shipping container/cooler in good condition? Yes No Not Present
Custody seals intact on shipping container/cooler? Yes No Not Present
Custody seals intact on sample bottles? Yes No Not Present

Container/Temp Blank temperature in compliance? (4°C±2)* Yes No

Cooler #1 3.5 Cooler #2 Cooler #3 Cooler #4 Cooler#5 Cooler #6

Chain of custody present? Yes No
Chain of custody signed when relinquished and received? Yes No
Chain of custody agrees with sample labels? PT 6/14/13 Yes No

Samples in proper container/bottle? Yes No
Sample containers intact? Yes No
Sufficient sample volume for indicated test? Yes No
All samples received within holding time? Yes No
Was TAT marked on the COC? Yes No

Proceed with Standard TAT as per project history? Yes No Not Applicable

Water - VOA vials have zero headspace? No VOA vials submitted Yes No

Water - pH acceptable upon receipt? Yes No Not Applicable

Sample Condition: Good Adjusted? Other(Explain) Checked by

(For diffusive samples or AIHA lead) Is a known blank included? Yes No

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

Client: Arcadis
 Project Name: Lafarge East Point
 Workorder: 1306C97

ANALYTICAL QC SUMMARY REPORT

BatchID: 177548

Sample ID: MB-177548	Client ID:	Units: mg/Kg	Prep Date: 06/20/2013	Run No: 246471							
SampleType: MBLK	TestCode: METALS, TOTAL SW6010C	BatchID: 177548	Analysis Date: 06/20/2013	Seq No: 5163759							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Lead BRL 5.00

Sample ID: LCS-177548	Client ID:	Units: mg/Kg	Prep Date: 06/20/2013	Run No: 246471							
SampleType: LCS	TestCode: METALS, TOTAL SW6010C	BatchID: 177548	Analysis Date: 06/20/2013	Seq No: 5163755							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Lead 47.85 5.00 50.00 95.7 80 120

Sample ID: 1306C50-012AMS	Client ID:	Units: mg/Kg-dry	Prep Date: 06/20/2013	Run No: 246471							
SampleType: MS	TestCode: METALS, TOTAL SW6010C	BatchID: 177548	Analysis Date: 06/20/2013	Seq No: 5164352							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Lead 51.98 5.41 54.13 8.560 80.2 75 125

Sample ID: 1306C50-012AMSD	Client ID:	Units: mg/Kg-dry	Prep Date: 06/20/2013	Run No: 246471							
SampleType: MSD	TestCode: METALS, TOTAL SW6010C	BatchID: 177548	Analysis Date: 06/20/2013	Seq No: 5164355							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Lead 51.31 5.42 54.24 8.560 78.8 75 125 51.98 1.29 20

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Arcadis
Project Name: Lafarge East Point
Workorder: 1306C97

ANALYTICAL QC SUMMARY REPORT

BatchID: 177552

Sample ID: MB-177552	Client ID:	Units: ug/Kg	Prep Date: 06/17/2013	Run No: 246190							
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 177552	Analysis Date: 06/17/2013	Seq No: 5157697							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	BRL	250									
1,1,2,2-Tetrachloroethane	BRL	250									
1,1,2-Trichloroethane	BRL	250									
1,1-Dichloroethane	BRL	250									
1,1-Dichloroethene	BRL	250									
1,2,4-Trichlorobenzene	BRL	250									
1,2-Dibromo-3-chloropropane	BRL	250									
1,2-Dibromoethane	BRL	250									
1,2-Dichlorobenzene	BRL	250									
1,2-Dichloroethane	BRL	250									
1,2-Dichloropropane	BRL	250									
1,3-Dichlorobenzene	BRL	250									
1,4-Dichlorobenzene	BRL	250									
2-Butanone	BRL	2500									
2-Hexanone	BRL	500									
4-Methyl-2-pentanone	BRL	500									
Acetone	BRL	5000									
Benzene	BRL	250									
Bromodichloromethane	BRL	250									
Bromoform	BRL	250									
Bromomethane	BRL	250									
Carbon disulfide	BRL	500									
Carbon tetrachloride	BRL	250									
Chlorobenzene	BRL	250									
Chloroethane	BRL	500									
Chloroform	BRL	250									
Chloromethane	BRL	500									

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
Project Name: Lafarge East Point
Workorder: 1306C97

ANALYTICAL QC SUMMARY REPORT

BatchID: 177552

Sample ID: MB-177552	Client ID:	Units: ug/Kg	Prep Date: 06/17/2013	Run No: 246190							
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 177552	Analysis Date: 06/17/2013	Seq No: 5157697							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	BRL	250									
cis-1,3-Dichloropropene	BRL	250									
Cyclohexane	BRL	250									
Dibromochloromethane	BRL	250									
Dichlorodifluoromethane	BRL	500									
Ethylbenzene	BRL	250									
Freon-113	BRL	500									
Isopropylbenzene	BRL	250									
m,p-Xylene	BRL	250									
Methyl acetate	BRL	250									
Methyl tert-butyl ether	BRL	250									
Methylcyclohexane	BRL	250									
Methylene chloride	BRL	1000									
o-Xylene	BRL	250									
Styrene	BRL	250									
Tetrachloroethene	BRL	250									
Toluene	BRL	250									
trans-1,2-Dichloroethene	BRL	250									
trans-1,3-Dichloropropene	BRL	250									
Trichloroethene	BRL	250									
Trichlorofluoromethane	BRL	250									
Vinyl chloride	BRL	500									
Surr: 4-Bromofluorobenzene	2252	0	2500		90.1	63.8	133				
Surr: Dibromofluoromethane	2435	0	2500		97.4	74.3	130				
Surr: Toluene-d8	2387	0	2500		95.5	72.8	122				

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
Project Name: Lafarge East Point
Workorder: 1306C97

ANALYTICAL QC SUMMARY REPORT

BatchID: 177552

Sample ID: LCS-177552	Client ID:	Units: ug/Kg	Prep Date: 06/17/2013	Run No: 246190							
SampleType: LCS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 177552	Analysis Date: 06/17/2013	Seq No: 5159378							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	2422	250	2500		96.9	63.1	140				
Benzene	2386	250	2500		95.4	70.2	130				
Chlorobenzene	2284	250	2500		91.4	70	126				
Toluene	2506	250	2500		100	70.5	130				
Trichloroethene	2761	250	2500		110	70	135				
Surr: 4-Bromofluorobenzene	2380	0	2500		95.2	63.8	133				
Surr: Dibromofluoromethane	2488	0	2500		99.5	74.3	130				
Surr: Toluene-d8	2444	0	2500		97.7	72.8	122				

Sample ID: 1306C97-001AMS	Client ID: ZONE 3C-A1	Units: ug/Kg-dry	Prep Date: 06/17/2013	Run No: 246190							
SampleType: MS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 177552	Analysis Date: 06/17/2013	Seq No: 5159499							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	3612	360	3588		101	58.8	157				
Benzene	3687	360	3588		103	66.3	139				
Chlorobenzene	3503	360	3588		97.6	67.8	131				
Toluene	3814	360	3588	73.20	104	66	138				
Trichloroethene	4175	360	3588		116	72.5	141				
Surr: 4-Bromofluorobenzene	2188	0	3588		61.0	63.8	133				S
Surr: Dibromofluoromethane	3564	0	3588		99.3	74.3	130				
Surr: Toluene-d8	3593	0	3588		100	72.8	122				

Sample ID: 1306C97-001AMSD	Client ID: ZONE 3C-A1	Units: ug/Kg-dry	Prep Date: 06/17/2013	Run No: 246190							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 177552	Analysis Date: 06/17/2013	Seq No: 5159501							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	3743	360	3588		104	58.8	157	3612	3.55	21.9	
Benzene	3580	360	3588		99.8	66.3	139	3687	2.94	22.3	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
 Project Name: Lafarge East Point
 Workorder: 1306C97

ANALYTICAL QC SUMMARY REPORT

BatchID: 177552

Sample ID: 1306C97-001AMSD	Client ID: ZONE 3C-A1	Units: ug/Kg-dry	Prep Date: 06/17/2013	Run No: 246190
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 177552	Analysis Date: 06/17/2013	Seq No: 5159501

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	3401	360	3588		94.8	67.8	131	3503	2.95	17.3	
Toluene	3789	360	3588	73.20	104	66	138	3814	0.661	18.1	
Trichloroethene	4015	360	3588		112	72.5	141	4175	3.89	18.7	
Surr: 4-Bromofluorobenzene	2175	0	3588		60.6	63.8	133	2188	0	0	S
Surr: Dibromofluoromethane	3465	0	3588		96.6	74.3	130	3564	0	0	
Surr: Toluene-d8	3601	0	3588		100	72.8	122	3593	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		



May 30, 2013

Peter Cornais
Arcadis
2081 Vista Parkway, Suite 200
West Palm Beach FL 33411

TEL: (850) 445-0829
FAX:

RE: Lafarge East Point

Dear Peter Cornais:

Order No: 1305129

Analytical Environmental Services, Inc. received 7 samples on 5/21/2013 3:25:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/12-06/30/13.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/13.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Chantelle Kanhai
Project Manager



ANALYTICAL ENVIRONMENTAL SERVICES, INC

3785 Presidential Parkway, Atlanta GA 30340-3704

AES TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1305129

Date: _____ Page 1 of _____

COMPANY: ARCADIS		ADDRESS: 1000 Cobb Place Blvd Bldg 500A Kennesaw, GA 30144			ANALYSIS REQUESTED					Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.		No # of Containers	
PHONE: 404-952-1602		FAX: Cecilia.reagan@arcadis-us.com			Lead	TCL VOC	TCL VOC						
SAMPLED BY: Mark Myers / Karlin Malong		SIGNATURE: <i>[Signature]</i>			PRESERVATION (See codes)								REMARKS
#	SAMPLE ID	SAMPLED		Grab	Composite	Matrix (See codes)	H	I	H				
		DATE	TIME						H	I	H		
1	Zone 4 - B3	5/21/13	1355	Y		SO	X	X	X			5	
2	zone 4 - C2	5/21/13	1400	X		SO	X					1	
3	Zone 4 - B1	5/21/13	1405	X		SO	X					1	
4	Zone 4 - A1 N. wall	5/21/13	1415	X		SO	X					1	
5	Zone 4 - A3 W. wall	5/21/13	1410	X		SO	X					1	
6	Zone 4 - C3 E wall	5/21/13	1425	X		SO	X					1	
7	Zone 4 - C1 N. wall	5/21/13	1420	X		SO	X					1	
8													
9													
10													
11													
12													
13													
14													
RELINQUISHED BY: <i>[Signature]</i>		DATE/TIME: 5/21/13 1525	RECEIVED BY: <i>[Signature]</i>		DATE/TIME: 5/21/13 1525	PROJECT INFORMATION					RECEIPT		
1:						PROJECT NAME: Lafarge East Point					Total # of Containers: 10		
2:						PROJECT #: HT22516					<input checked="" type="radio"/> Turnaround Time Request <input type="radio"/> Standard 5 Business Days <input type="radio"/> 2 Business Day Rush <input type="radio"/> Next Business Day Rush <input type="radio"/> Same Day Rush (auth req.) <input type="radio"/> Other _____		
3:						SITE ADDRESS: 2625 N. Martin St.							
SPECIAL INSTRUCTIONS/COMMENTS:						SEND REPORT TO: Peter.cornais@arcadis-us.com					STATE PROGRAM (if any): _____		
						INVOICE TO: (IF DIFFERENT FROM ABOVE)					E-mail? Y/N; Fax? Y/N		
						SHIPMENT METHOD: OUT / / VIA: CLIENT FedEx UPS MAIL COURIER					DATA PACKAGE: I II III IV		
						IN / / VIA: GREYHOUND OTHER _____							
<p>SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES.</p> <p>SAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMPLETION UNLESS OTHER ARRANGEMENTS ARE MADE.</p>													

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water

PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

Client: Arcadis	Client Sample ID: ZONE 4-B3
Project Name: Lafarge East Point	Collection Date: 5/21/2013 1:55:00 PM
Lab ID: 1305129-001	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	3.9		ug/Kg-dry	176596	1	05/24/2013 03:44	MD
1,1,2,2-Tetrachloroethane	BRL	3.9		ug/Kg-dry	176596	1	05/24/2013 03:44	MD
1,1,2-Trichloroethane	BRL	3.9		ug/Kg-dry	176596	1	05/24/2013 03:44	MD
1,1-Dichloroethane	BRL	3.9		ug/Kg-dry	176596	1	05/24/2013 03:44	MD
1,1-Dichloroethene	BRL	3.9		ug/Kg-dry	176596	1	05/24/2013 03:44	MD
1,2,4-Trichlorobenzene	BRL	3.9		ug/Kg-dry	176596	1	05/24/2013 03:44	MD
1,2-Dibromo-3-chloropropane	BRL	3.9		ug/Kg-dry	176596	1	05/24/2013 03:44	MD
1,2-Dibromoethane	BRL	3.9		ug/Kg-dry	176596	1	05/24/2013 03:44	MD
1,2-Dichlorobenzene	BRL	3.9		ug/Kg-dry	176596	1	05/24/2013 03:44	MD
1,2-Dichloroethane	BRL	3.9		ug/Kg-dry	176596	1	05/24/2013 03:44	MD
1,2-Dichloropropane	BRL	3.9		ug/Kg-dry	176596	1	05/24/2013 03:44	MD
1,3-Dichlorobenzene	BRL	3.9		ug/Kg-dry	176596	1	05/24/2013 03:44	MD
1,4-Dichlorobenzene	BRL	3.9		ug/Kg-dry	176596	1	05/24/2013 03:44	MD
2-Butanone	BRL	39		ug/Kg-dry	176596	1	05/24/2013 03:44	MD
2-Hexanone	BRL	7.8		ug/Kg-dry	176596	1	05/24/2013 03:44	MD
4-Methyl-2-pentanone	BRL	7.8		ug/Kg-dry	176596	1	05/24/2013 03:44	MD
Acetone	BRL	78		ug/Kg-dry	176596	1	05/24/2013 03:44	MD
Benzene	BRL	3.9		ug/Kg-dry	176596	1	05/24/2013 03:44	MD
Bromodichloromethane	BRL	3.9		ug/Kg-dry	176596	1	05/24/2013 03:44	MD
Bromoform	BRL	3.9		ug/Kg-dry	176596	1	05/24/2013 03:44	MD
Bromomethane	BRL	3.9		ug/Kg-dry	176596	1	05/24/2013 03:44	MD
Carbon disulfide	BRL	7.8		ug/Kg-dry	176596	1	05/24/2013 03:44	MD
Carbon tetrachloride	BRL	3.9		ug/Kg-dry	176596	1	05/24/2013 03:44	MD
Chlorobenzene	BRL	3.9		ug/Kg-dry	176596	1	05/24/2013 03:44	MD
Chloroethane	BRL	7.8		ug/Kg-dry	176596	1	05/24/2013 03:44	MD
Chloroform	BRL	3.9		ug/Kg-dry	176596	1	05/24/2013 03:44	MD
Chloromethane	BRL	7.8		ug/Kg-dry	176596	1	05/24/2013 03:44	MD
cis-1,2-Dichloroethene	BRL	3.9		ug/Kg-dry	176596	1	05/24/2013 03:44	MD
cis-1,3-Dichloropropene	BRL	3.9		ug/Kg-dry	176596	1	05/24/2013 03:44	MD
Cyclohexane	BRL	3.9		ug/Kg-dry	176596	1	05/24/2013 03:44	MD
Dibromochloromethane	BRL	3.9		ug/Kg-dry	176596	1	05/24/2013 03:44	MD
Dichlorodifluoromethane	BRL	7.8		ug/Kg-dry	176596	1	05/24/2013 03:44	MD
Ethylbenzene	BRL	3.9		ug/Kg-dry	176596	1	05/24/2013 03:44	MD
Freon-113	BRL	7.8		ug/Kg-dry	176596	1	05/24/2013 03:44	MD
Isopropylbenzene	BRL	3.9		ug/Kg-dry	176596	1	05/24/2013 03:44	MD
m,p-Xylene	BRL	3.9		ug/Kg-dry	176596	1	05/24/2013 03:44	MD
Methyl acetate	BRL	3.9		ug/Kg-dry	176596	1	05/24/2013 03:44	MD
Methyl tert-butyl ether	BRL	3.9		ug/Kg-dry	176596	1	05/24/2013 03:44	MD
Methylcyclohexane	BRL	3.9		ug/Kg-dry	176596	1	05/24/2013 03:44	MD
Methylene chloride	BRL	16		ug/Kg-dry	176596	1	05/24/2013 03:44	MD
o-Xylene	BRL	3.9		ug/Kg-dry	176596	1	05/24/2013 03:44	MD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: ZONE 4-B3
Project Name: Lafarge East Point	Collection Date: 5/21/2013 1:55:00 PM
Lab ID: 1305129-001	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B		(SW5035)						
Styrene	BRL	3.9		ug/Kg-dry	176596	1	05/24/2013 03:44	MD
Tetrachloroethene	BRL	3.9		ug/Kg-dry	176596	1	05/24/2013 03:44	MD
Toluene	BRL	3.9		ug/Kg-dry	176596	1	05/24/2013 03:44	MD
trans-1,2-Dichloroethene	BRL	3.9		ug/Kg-dry	176596	1	05/24/2013 03:44	MD
trans-1,3-Dichloropropene	BRL	3.9		ug/Kg-dry	176596	1	05/24/2013 03:44	MD
Trichloroethene	BRL	3.9		ug/Kg-dry	176596	1	05/24/2013 03:44	MD
Trichlorofluoromethane	BRL	3.9		ug/Kg-dry	176596	1	05/24/2013 03:44	MD
Vinyl chloride	BRL	7.8		ug/Kg-dry	176596	1	05/24/2013 03:44	MD
Surr: 4-Bromofluorobenzene	102	63.8-133		%REC	176596	1	05/24/2013 03:44	MD
Surr: Dibromofluoromethane	111	74.3-130		%REC	176596	1	05/24/2013 03:44	MD
Surr: Toluene-d8	105	72.8-122		%REC	176596	1	05/24/2013 03:44	MD
METALS, TOTAL SW6010C		(SW3050B)						
Lead	29.5	5.57		mg/Kg-dry	176461	1	05/23/2013 10:36	MR
PERCENT MOISTURE D2216								
Percent Moisture	15.6	0		wt%	R244746	1	05/24/2013 13:00	AS

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-May-13

Client: Arcadis	Client Sample ID: ZONE 4-C2
Project Name: Lafarge East Point	Collection Date: 5/21/2013 2:00:00 PM
Lab ID: 1305129-002	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					(SW3050B)			
Lead	262	5.36		mg/Kg-dry	176461	1	05/23/2013 18:54	MR
PERCENT MOISTURE D2216								
Percent Moisture	12.0	0		wt%	R244746	1	05/24/2013 13:00	AS

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-May-13

Client: Arcadis	Client Sample ID: ZONE 4-B1
Project Name: Lafarge East Point	Collection Date: 5/21/2013 2:05:00 PM
Lab ID: 1305129-003	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					(SW3050B)			
Lead	485	5.38		mg/Kg-dry	176461	1	05/23/2013 18:58	MR
PERCENT MOISTURE D2216								
Percent Moisture	15.3	0		wt%	R244746	1	05/24/2013 13:00	AS

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-May-13

Client: Arcadis	Client Sample ID: ZONE 4-A1 N. WALL
Project Name: Lafarge East Point	Collection Date: 5/21/2013 2:15:00 PM
Lab ID: 1305129-004	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					(SW3050B)			
Lead	1890	5.19		mg/Kg-dry	176461	1	05/23/2013 19:02	MR
PERCENT MOISTURE D2216								
Percent Moisture	9.88	0		wt%	R244746	1	05/24/2013 13:00	AS

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-May-13

Client: Arcadis	Client Sample ID: ZONE 4-A3 W. WALL
Project Name: Lafarge East Point	Collection Date: 5/21/2013 2:10:00 PM
Lab ID: 1305129-005	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					(SW3050B)			
Lead	581	5.00		mg/Kg-dry	176461	1	05/23/2013 19:13	MR
PERCENT MOISTURE D2216								
Percent Moisture	6.48	0		wt%	R244746	1	05/24/2013 13:00	AS

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-May-13

Client: Arcadis	Client Sample ID: ZONE 4-C3 E. WALL
Project Name: Lafarge East Point	Collection Date: 5/21/2013 2:25:00 PM
Lab ID: 1305129-006	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					(SW3050B)			
Lead	1980	5.31		mg/Kg-dry	176461	1	05/23/2013 19:17	MR
PERCENT MOISTURE D2216								
Percent Moisture	12.8	0		wt%	R244746	1	05/24/2013 13:00	AS

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-May-13

Client: Arcadis	Client Sample ID: ZONE 4-C1 N. WALL
Project Name: Lafarge East Point	Collection Date: 5/21/2013 2:20:00 PM
Lab ID: 1305129-007	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					(SW3050B)			
Lead	489	5.60		mg/Kg-dry	176461	1	05/23/2013 19:23	MR
PERCENT MOISTURE D2216								
Percent Moisture	13.7	0		wt%	R244746	1	05/24/2013 13:00	AS

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Arcadis

Work Order Number 1305129

Checklist completed by Jan B 5/21/13
Signature Date

Carrier name: FedEx UPS Courier Client US Mail Other

Shipping container/cooler in good condition? Yes No Not Present

Custody seals intact on shipping container/cooler? Yes No Not Present

Custody seals intact on sample bottles? Yes No Not Present

Container/Temp Blank temperature in compliance? (4°C±2)* Yes No

Cooler #1 3-2° Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present? Yes No

Chain of custody signed when relinquished and received? Yes No

Chain of custody agrees with sample labels? Yes No

Samples in proper container/bottle? Yes No

Sample containers intact? Yes No

Sufficient sample volume for indicated test? Yes No

All samples received within holding time? Yes No

Was TAT marked on the COC? Yes No

Proceed with Standard TAT as per project history? Yes No Not Applicable

Water - VOA vials have zero headspace? No VOA vials submitted Yes CK 5/21/13 No

Water - pH acceptable upon receipt? Yes No Not Applicable

Adjusted? _____ Checked by _____

Sample Condition: Good Other(Explain) _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes No

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

Client: Arcadis
Project Name: Lafarge East Point
Workorder: 1305I29

ANALYTICAL QC SUMMARY REPORT

BatchID: 176461

Sample ID: MB-176461	Client ID:	Units: mg/Kg	Prep Date: 05/22/2013	Run No: 244623							
SampleType: MBLK	TestCode: METALS, TOTAL SW6010C	BatchID: 176461	Analysis Date: 05/23/2013	Seq No: 5122978							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Lead BRL 5.00 0 0 0 0 0 0 0 0 0 0

Sample ID: LCS-176461	Client ID:	Units: mg/Kg	Prep Date: 05/22/2013	Run No: 244623							
SampleType: LCS	TestCode: METALS, TOTAL SW6010C	BatchID: 176461	Analysis Date: 05/23/2013	Seq No: 5122977							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Lead 49.34 5.00 50.00 0 98.7 80 120 0 0 0

Sample ID: 1305I29-001CMS	Client ID: ZONE 4-B3	Units: mg/Kg-dry	Prep Date: 05/22/2013	Run No: 244623							
SampleType: MS	TestCode: METALS, TOTAL SW6010C	BatchID: 176461	Analysis Date: 05/23/2013	Seq No: 5122981							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Lead 85.03 5.55 55.47 29.55 100 75 125 0 0 0

Sample ID: 1305I29-001CMSD	Client ID: ZONE 4-B3	Units: mg/Kg-dry	Prep Date: 05/22/2013	Run No: 244623							
SampleType: MSD	TestCode: METALS, TOTAL SW6010C	BatchID: 176461	Analysis Date: 05/23/2013	Seq No: 5122982							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Lead 83.06 5.57 55.74 29.55 96.0 75 125 85.03 2.35 20

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Arcadis
 Project Name: Lafarge East Point
 Workorder: 1305129

ANALYTICAL QC SUMMARY REPORT

BatchID: 176596

Sample ID: MB-176596	Client ID:	Units: ug/Kg	Prep Date: 05/23/2013	Run No: 244674
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 176596	Analysis Date: 05/23/2013	Seq No: 5124081

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,1,2,2-Tetrachloroethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,1,2-Trichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,1-Dichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,1-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
1,2,4-Trichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	
1,2-Dibromo-3-chloropropane	BRL	5.0	0	0	0	0	0	0	0	0	
1,2-Dibromoethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,2-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	
1,2-Dichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,2-Dichloropropane	BRL	5.0	0	0	0	0	0	0	0	0	
1,3-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	
1,4-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	
2-Butanone	BRL	50	0	0	0	0	0	0	0	0	
2-Hexanone	BRL	10	0	0	0	0	0	0	0	0	
4-Methyl-2-pentanone	BRL	10	0	0	0	0	0	0	0	0	
Acetone	BRL	100	0	0	0	0	0	0	0	0	
Benzene	BRL	5.0	0	0	0	0	0	0	0	0	
Bromodichloromethane	BRL	5.0	0	0	0	0	0	0	0	0	
Bromoform	BRL	5.0	0	0	0	0	0	0	0	0	
Bromomethane	BRL	5.0	0	0	0	0	0	0	0	0	
Carbon disulfide	BRL	10	0	0	0	0	0	0	0	0	
Carbon tetrachloride	BRL	5.0	0	0	0	0	0	0	0	0	
Chlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	
Chloroethane	BRL	10	0	0	0	0	0	0	0	0	
Chloroform	BRL	5.0	0	0	0	0	0	0	0	0	
Chloromethane	BRL	10	0	0	0	0	0	0	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
Project Name: Lafarge East Point
Workorder: 1305129

ANALYTICAL QC SUMMARY REPORT

BatchID: 176596

Sample ID: MB-176596	Client ID:	Units: ug/Kg	Prep Date: 05/23/2013	Run No: 244674							
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 176596	Analysis Date: 05/23/2013	Seq No: 5124081							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
cis-1,3-Dichloropropene	BRL	5.0	0	0	0	0	0	0	0	0	
Cyclohexane	BRL	5.0	0	0	0	0	0	0	0	0	
Dibromochloromethane	BRL	5.0	0	0	0	0	0	0	0	0	
Dichlorodifluoromethane	BRL	10	0	0	0	0	0	0	0	0	
Ethylbenzene	BRL	5.0	0	0	0	0	0	0	0	0	
Freon-113	BRL	10	0	0	0	0	0	0	0	0	
Isopropylbenzene	BRL	5.0	0	0	0	0	0	0	0	0	
m,p-Xylene	BRL	5.0	0	0	0	0	0	0	0	0	
Methyl acetate	BRL	5.0	0	0	0	0	0	0	0	0	
Methyl tert-butyl ether	BRL	5.0	0	0	0	0	0	0	0	0	
Methylcyclohexane	BRL	5.0	0	0	0	0	0	0	0	0	
Methylene chloride	BRL	20	0	0	0	0	0	0	0	0	
o-Xylene	BRL	5.0	0	0	0	0	0	0	0	0	
Styrene	BRL	5.0	0	0	0	0	0	0	0	0	
Tetrachloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
Toluene	BRL	5.0	0	0	0	0	0	0	0	0	
trans-1,2-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
trans-1,3-Dichloropropene	BRL	5.0	0	0	0	0	0	0	0	0	
Trichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
Trichlorofluoromethane	BRL	5.0	0	0	0	0	0	0	0	0	
Vinyl chloride	BRL	10	0	0	0	0	0	0	0	0	
Surr: 4-Bromofluorobenzene	49.49	0	50.00	0	99.0	63.8	133	0	0	0	
Surr: Dibromofluoromethane	55.59	0	50.00	0	111	74.3	130	0	0	0	
Surr: Toluene-d8	49.46	0	50.00	0	98.9	72.8	122	0	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
Project Name: Lafarge East Point
Workorder: 1305129

ANALYTICAL QC SUMMARY REPORT

BatchID: 176596

Sample ID: LCS-176596	Client ID:	Units: ug/Kg	Prep Date: 05/23/2013	Run No: 244674							
SampleType: LCS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 176596	Analysis Date: 05/23/2013	Seq No: 5124078							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	47.65	5.0	50.00	0	95.3	63.1	140	0	0	0	
Benzene	49.49	5.0	50.00	0	99.0	70.2	130	0	0	0	
Chlorobenzene	49.69	5.0	50.00	0	99.4	70	126	0	0	0	
Toluene	52.02	5.0	50.00	0	104	70.5	130	0	0	0	
Trichloroethene	52.45	5.0	50.00	0	105	70	135	0	0	0	
Surr: 4-Bromofluorobenzene	55.22	0	50.00	0	110	63.8	133	0	0	0	
Surr: Dibromofluoromethane	55.97	0	50.00	0	112	74.3	130	0	0	0	
Surr: Toluene-d8	52.01	0	50.00	0	104	72.8	122	0	0	0	

Sample ID: 1305K64-001AMS	Client ID:	Units: ug/Kg-dry	Prep Date: 05/23/2013	Run No: 244674							
SampleType: MS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 176596	Analysis Date: 05/23/2013	Seq No: 5124100							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	46.30	5.8	57.68	0	80.3	58.8	157	0	0	0	
Benzene	49.04	5.8	57.68	0	85.0	66.3	139	0	0	0	
Chlorobenzene	49.13	5.8	57.68	0	85.2	67.8	131	0	0	0	
Toluene	54.01	5.8	57.68	0	93.6	66	138	0	0	0	
Trichloroethene	52.69	5.8	57.68	0	91.4	72.5	141	0	0	0	
Surr: 4-Bromofluorobenzene	64.67	0	57.68	0	112	63.8	133	0	0	0	
Surr: Dibromofluoromethane	64.34	0	57.68	0	112	74.3	130	0	0	0	
Surr: Toluene-d8	61.76	0	57.68	0	107	72.8	122	0	0	0	

Sample ID: 1305K64-001AMSD	Client ID:	Units: ug/Kg-dry	Prep Date: 05/23/2013	Run No: 244674							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 176596	Analysis Date: 05/23/2013	Seq No: 5124102							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	49.97	5.8	57.68	0	86.6	58.8	157	46.30	7.62	21.9	
Benzene	52.52	5.8	57.68	0	91.1	66.3	139	49.04	6.86	22.3	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
 Project Name: Lafarge East Point
 Workorder: 1305129

ANALYTICAL QC SUMMARY REPORT

BatchID: 176596

Sample ID: 1305K64-001AMSD	Client ID:	Units: ug/Kg-dry	Prep Date: 05/23/2013	Run No: 244674							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 176596	Analysis Date: 05/23/2013	Seq No: 5124102							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chlorobenzene	51.35	5.8	57.68	0	89.0	67.8	131	49.13	4.43	17.3	
Toluene	57.19	5.8	57.68	0	99.2	66	138	54.01	5.73	18.1	
Trichloroethene	54.32	5.8	57.68	0	94.2	72.5	141	52.69	3.04	18.7	
Surr: 4-Bromofluorobenzene	64.62	0	57.68	0	112	63.8	133	64.67	0	0	
Surr: Dibromofluoromethane	63.12	0	57.68	0	109	74.3	130	64.34	0	0	
Surr: Toluene-d8	61.68	0	57.68	0	107	72.8	122	61.76	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		



June 27, 2013

Peter Cornais
Arcadis
2081 Vista Parkway, Suite 200
West Palm Beach FL 33411

TEL: (850) 445-0829
FAX:

RE: Lafarge East Point

Dear Peter Cornais:

Order No: 1306C98

Analytical Environmental Services, Inc. received 13 samples on 6/13/2013 3:20:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/12-06/30/13.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/13.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Chantelle Kanhai
Project Manager



ANALYTICAL ENVIRONMENTAL SERVICES, INC

3785 Presidential Parkway, Atlanta GA 30340-3704

AES TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1306C98

Date 6/13/13 Page 1 of 1

COMPANY: ARCADIS		ADDRESS: 1000 Cobb Place Blvd Bldg 500-1A Kennelaw GA 30144					ANALYSIS REQUESTED										Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.		No # of Containers
PHONE: 404 952 1602		FAX: Cecilia.reagan@arcadis-us.com					PRESERVATION (See codes)										REMARKS		
SAMPLED BY: K. Maloney, M. Myers		SIGNATURE: <i>[Signature]</i>					Lead VOC VOC												
#	SAMPLE ID	SAMPLED		Grab	Composite	Matrix (See codes)											REMARKS		
		DATE	TIME																
1	Zone 5 - A2	6/13/13	1242	Y		SO	X	X	X									5	
2	Zone 5 - A4 A4	6/13/13	1244	Y		SO	X	X	X									5	
3	Zone 5 - B1	6/13/13	1246	Y		SO	X											1	
4	Zone 5 - B3	6/13/13	1248	Y		SO	X											1	
5	Zone 5 - C2	6/13/13	1250	Y		SO	X											1	
6	Zone 5 - D1	6/13/13	1252	Y		SO	X	X	X									5	
7	Zone 5 - D3	6/13/13	1254	Y		SO	X											1	
8	Zone 5 - B3 West wall	6/13/13	1258	X		SO	X	X	X									5	
9	Zone 5 - B4 East wall	6/13/13	1300	Y		SO	X											1	
10	Zone 5 - A4 West wall	6/13/13	1256	Y		SO	X											1	
11	Zone 5 - B4 North wall	6/13/13	1315	X		SO	X											1	
12	Zone 5 - D1 North wall	6/13/13	1310	Y		SO	X											1	
13	Zone 5 - D3 South wall	6/13/13	1305	Y		SO	X	X	X									5	
14																			
RELINQUISHED BY: <i>[Signature]</i>		DATE/TIME: 6/13/13 1520		RECEIVED BY: <i>[Signature]</i>		DATE/TIME: 6/13/13 3:20		PROJECT INFORMATION										RECEIPT	
1:		2:		3:		PROJECT NAME: Laforge East Point										Total # of Containers 33			
2:		3:		3:		PROJECT #: HT 212576										Turnaround Time Request <input checked="" type="radio"/> Standard 5 Business Days <input type="radio"/> 2 Business Day Rush <input type="radio"/> Next Business Day Rush <input type="radio"/> Same Day Rush (auth req.) <input type="radio"/> Other _____			
3:		3:		3:		SITE ADDRESS: 2675 N. Martin St.										STATE PROGRAM (if any): _____ E-mail? Y/N; Fax? Y/N			
SPECIAL INSTRUCTIONS/COMMENTS:		SHIPMENT METHOD		OUT / IN		SEND REPORT TO: peter.cornau@arcadis-us.com										DATA PACKAGE: I II III IV			
		SHIPMENT METHOD		OUT / IN		INVOICE TO: (IF DIFFERENT FROM ABOVE)													
		SHIPMENT METHOD		OUT / IN		QUOTE #:										PO#:			
		SHIPMENT METHOD		OUT / IN		INVOICE TO: (IF DIFFERENT FROM ABOVE)													
		SHIPMENT METHOD		OUT / IN		QUOTE #:										PO#:			

Client: Arcadis
Project: Lafarge East Point
Lab ID: 1306C98

Case Narrative

Volatiles Organic Compounds Analysis by Method 8260B:

Due to sample matrix, samples 1306C98-002 and -013 required dilution during preparation and/or analysis resulting in elevated reporting limits.

Client: Arcadis	Client Sample ID: ZONE5-A2
Project Name: Lafarge East Point	Collection Date: 6/13/2013 12:42:00 PM
Lab ID: 1306C98-001	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	3.0		ug/Kg-dry	177529	1	06/18/2013 00:44	MD
1,1,2,2-Tetrachloroethane	BRL	3.0		ug/Kg-dry	177529	1	06/18/2013 00:44	MD
1,1,2-Trichloroethane	BRL	3.0		ug/Kg-dry	177529	1	06/18/2013 00:44	MD
1,1-Dichloroethane	BRL	3.0		ug/Kg-dry	177529	1	06/18/2013 00:44	MD
1,1-Dichloroethene	BRL	3.0		ug/Kg-dry	177529	1	06/18/2013 00:44	MD
1,2,4-Trichlorobenzene	BRL	3.0		ug/Kg-dry	177529	1	06/18/2013 00:44	MD
1,2-Dibromo-3-chloropropane	BRL	3.0		ug/Kg-dry	177529	1	06/18/2013 00:44	MD
1,2-Dibromoethane	BRL	3.0		ug/Kg-dry	177529	1	06/18/2013 00:44	MD
1,2-Dichlorobenzene	BRL	3.0		ug/Kg-dry	177529	1	06/18/2013 00:44	MD
1,2-Dichloroethane	BRL	3.0		ug/Kg-dry	177529	1	06/18/2013 00:44	MD
1,2-Dichloropropane	BRL	3.0		ug/Kg-dry	177529	1	06/18/2013 00:44	MD
1,3-Dichlorobenzene	BRL	3.0		ug/Kg-dry	177529	1	06/18/2013 00:44	MD
1,4-Dichlorobenzene	BRL	3.0		ug/Kg-dry	177529	1	06/18/2013 00:44	MD
2-Butanone	BRL	30		ug/Kg-dry	177529	1	06/18/2013 00:44	MD
2-Hexanone	BRL	6.0		ug/Kg-dry	177529	1	06/18/2013 00:44	MD
4-Methyl-2-pentanone	BRL	6.0		ug/Kg-dry	177529	1	06/18/2013 00:44	MD
Acetone	86	60		ug/Kg-dry	177529	1	06/18/2013 00:44	MD
Benzene	12	3.0		ug/Kg-dry	177529	1	06/18/2013 00:44	MD
Bromodichloromethane	BRL	3.0		ug/Kg-dry	177529	1	06/18/2013 00:44	MD
Bromoform	BRL	3.0		ug/Kg-dry	177529	1	06/18/2013 00:44	MD
Bromomethane	BRL	3.0		ug/Kg-dry	177529	1	06/18/2013 00:44	MD
Carbon disulfide	BRL	6.0		ug/Kg-dry	177529	1	06/18/2013 00:44	MD
Carbon tetrachloride	BRL	3.0		ug/Kg-dry	177529	1	06/18/2013 00:44	MD
Chlorobenzene	BRL	3.0		ug/Kg-dry	177529	1	06/18/2013 00:44	MD
Chloroethane	BRL	6.0		ug/Kg-dry	177529	1	06/18/2013 00:44	MD
Chloroform	BRL	3.0		ug/Kg-dry	177529	1	06/18/2013 00:44	MD
Chloromethane	BRL	6.0		ug/Kg-dry	177529	1	06/18/2013 00:44	MD
cis-1,2-Dichloroethene	BRL	3.0		ug/Kg-dry	177529	1	06/18/2013 00:44	MD
cis-1,3-Dichloropropene	BRL	3.0		ug/Kg-dry	177529	1	06/18/2013 00:44	MD
Cyclohexane	30	3.0		ug/Kg-dry	177529	1	06/18/2013 00:44	MD
Dibromochloromethane	BRL	3.0		ug/Kg-dry	177529	1	06/18/2013 00:44	MD
Dichlorodifluoromethane	BRL	6.0		ug/Kg-dry	177529	1	06/18/2013 00:44	MD
Ethylbenzene	74	3.0		ug/Kg-dry	177529	1	06/18/2013 00:44	MD
Freon-113	BRL	6.0		ug/Kg-dry	177529	1	06/18/2013 00:44	MD
Isopropylbenzene	5.7	3.0		ug/Kg-dry	177529	1	06/18/2013 00:44	MD
m,p-Xylene	BRL	3.0		ug/Kg-dry	177529	1	06/18/2013 00:44	MD
Methyl acetate	BRL	3.0		ug/Kg-dry	177529	1	06/18/2013 00:44	MD
Methyl tert-butyl ether	BRL	3.0		ug/Kg-dry	177529	1	06/18/2013 00:44	MD
Methylcyclohexane	42	3.0		ug/Kg-dry	177529	1	06/18/2013 00:44	MD
Methylene chloride	BRL	12		ug/Kg-dry	177529	1	06/18/2013 00:44	MD
o-Xylene	BRL	3.0		ug/Kg-dry	177529	1	06/18/2013 00:44	MD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: ZONE5-A2
Project Name: Lafarge East Point	Collection Date: 6/13/2013 12:42:00 PM
Lab ID: 1306C98-001	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B		(SW5035)						
Styrene	BRL	3.0		ug/Kg-dry	177529	1	06/18/2013 00:44	MD
Tetrachloroethene	BRL	3.0		ug/Kg-dry	177529	1	06/18/2013 00:44	MD
Toluene	BRL	3.0		ug/Kg-dry	177529	1	06/18/2013 00:44	MD
trans-1,2-Dichloroethene	BRL	3.0		ug/Kg-dry	177529	1	06/18/2013 00:44	MD
trans-1,3-Dichloropropene	BRL	3.0		ug/Kg-dry	177529	1	06/18/2013 00:44	MD
Trichloroethene	BRL	3.0		ug/Kg-dry	177529	1	06/18/2013 00:44	MD
Trichlorofluoromethane	BRL	3.0		ug/Kg-dry	177529	1	06/18/2013 00:44	MD
Vinyl chloride	BRL	6.0		ug/Kg-dry	177529	1	06/18/2013 00:44	MD
Surr: 4-Bromofluorobenzene	98.5	63.8-133		%REC	177529	1	06/18/2013 00:44	MD
Surr: Dibromofluoromethane	97.1	74.3-130		%REC	177529	1	06/18/2013 00:44	MD
Surr: Toluene-d8	103	72.8-122		%REC	177529	1	06/18/2013 00:44	MD
METALS, TOTAL SW6010C		(SW3050B)						
Lead	70.1	5.65		mg/Kg-dry	177551	1	06/19/2013 21:08	MR
PERCENT MOISTURE D2216								
Percent Moisture	15.6	0		wt%	R246376	1	06/18/2013 17:00	LW

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Client: Arcadis
 Project Name: Lafarge East Point
 Lab ID: 1306C98-002

Client Sample ID: ZONE5- A4
 Collection Date: 6/13/2013 12:44:00 PM
 Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	130		ug/Kg-dry	177552	50	06/17/2013 23:26	GK
1,1,2,2-Tetrachloroethane	BRL	130		ug/Kg-dry	177552	50	06/17/2013 23:26	GK
1,1,2-Trichloroethane	BRL	130		ug/Kg-dry	177552	50	06/17/2013 23:26	GK
1,1-Dichloroethane	BRL	130		ug/Kg-dry	177552	50	06/17/2013 23:26	GK
1,1-Dichloroethene	BRL	130		ug/Kg-dry	177552	50	06/17/2013 23:26	GK
1,2,4-Trichlorobenzene	BRL	130		ug/Kg-dry	177552	50	06/17/2013 23:26	GK
1,2-Dibromo-3-chloropropane	BRL	130		ug/Kg-dry	177552	50	06/17/2013 23:26	GK
1,2-Dibromoethane	BRL	130		ug/Kg-dry	177552	50	06/17/2013 23:26	GK
1,2-Dichlorobenzene	BRL	130		ug/Kg-dry	177552	50	06/17/2013 23:26	GK
1,2-Dichloroethane	BRL	130		ug/Kg-dry	177552	50	06/17/2013 23:26	GK
1,2-Dichloropropane	BRL	130		ug/Kg-dry	177552	50	06/17/2013 23:26	GK
1,3-Dichlorobenzene	BRL	130		ug/Kg-dry	177552	50	06/17/2013 23:26	GK
1,4-Dichlorobenzene	BRL	130		ug/Kg-dry	177552	50	06/17/2013 23:26	GK
2-Butanone	BRL	1300		ug/Kg-dry	177552	50	06/17/2013 23:26	GK
2-Hexanone	BRL	250		ug/Kg-dry	177552	50	06/17/2013 23:26	GK
4-Methyl-2-pentanone	BRL	250		ug/Kg-dry	177552	50	06/17/2013 23:26	GK
Acetone	BRL	2500		ug/Kg-dry	177552	50	06/17/2013 23:26	GK
Benzene	BRL	130		ug/Kg-dry	177552	50	06/17/2013 23:26	GK
Bromodichloromethane	BRL	130		ug/Kg-dry	177552	50	06/17/2013 23:26	GK
Bromoform	BRL	130		ug/Kg-dry	177552	50	06/17/2013 23:26	GK
Bromomethane	BRL	130		ug/Kg-dry	177552	50	06/17/2013 23:26	GK
Carbon disulfide	BRL	250		ug/Kg-dry	177552	50	06/17/2013 23:26	GK
Carbon tetrachloride	BRL	130		ug/Kg-dry	177552	50	06/17/2013 23:26	GK
Chlorobenzene	BRL	130		ug/Kg-dry	177552	50	06/17/2013 23:26	GK
Chloroethane	BRL	250		ug/Kg-dry	177552	50	06/17/2013 23:26	GK
Chloroform	BRL	130		ug/Kg-dry	177552	50	06/17/2013 23:26	GK
Chloromethane	BRL	250		ug/Kg-dry	177552	50	06/17/2013 23:26	GK
cis-1,2-Dichloroethene	BRL	130		ug/Kg-dry	177552	50	06/17/2013 23:26	GK
cis-1,3-Dichloropropene	BRL	130		ug/Kg-dry	177552	50	06/17/2013 23:26	GK
Cyclohexane	560	130		ug/Kg-dry	177552	50	06/17/2013 23:26	GK
Dibromochloromethane	BRL	130		ug/Kg-dry	177552	50	06/17/2013 23:26	GK
Dichlorodifluoromethane	BRL	250		ug/Kg-dry	177552	50	06/17/2013 23:26	GK
Ethylbenzene	5400	250		ug/Kg-dry	177552	100	06/18/2013 17:47	GK
Freon-113	BRL	250		ug/Kg-dry	177552	50	06/17/2013 23:26	GK
Isopropylbenzene	280	130		ug/Kg-dry	177552	50	06/17/2013 23:26	GK
m,p-Xylene	BRL	130		ug/Kg-dry	177552	50	06/17/2013 23:26	GK
Methyl acetate	BRL	130		ug/Kg-dry	177552	50	06/17/2013 23:26	GK
Methyl tert-butyl ether	BRL	130		ug/Kg-dry	177552	50	06/17/2013 23:26	GK
Methylcyclohexane	4500	250		ug/Kg-dry	177552	100	06/18/2013 17:47	GK
Methylene chloride	BRL	500		ug/Kg-dry	177552	50	06/17/2013 23:26	GK
o-Xylene	BRL	130		ug/Kg-dry	177552	50	06/17/2013 23:26	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: ZONE5- A4
Project Name: Lafarge East Point	Collection Date: 6/13/2013 12:44:00 PM
Lab ID: 1306C98-002	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5035)			
Styrene	BRL	130		ug/Kg-dry	177552	50	06/17/2013 23:26	GK
Tetrachloroethene	BRL	130		ug/Kg-dry	177552	50	06/17/2013 23:26	GK
Toluene	BRL	130		ug/Kg-dry	177552	50	06/17/2013 23:26	GK
trans-1,2-Dichloroethene	BRL	130		ug/Kg-dry	177552	50	06/17/2013 23:26	GK
trans-1,3-Dichloropropene	BRL	130		ug/Kg-dry	177552	50	06/17/2013 23:26	GK
Trichloroethene	BRL	130		ug/Kg-dry	177552	50	06/17/2013 23:26	GK
Trichlorofluoromethane	BRL	130		ug/Kg-dry	177552	50	06/17/2013 23:26	GK
Vinyl chloride	BRL	250		ug/Kg-dry	177552	50	06/17/2013 23:26	GK
Surr: 4-Bromofluorobenzene	103	63.8-133		%REC	177552	50	06/17/2013 23:26	GK
Surr: 4-Bromofluorobenzene	90.3	63.8-133		%REC	177552	100	06/18/2013 17:47	GK
Surr: Dibromofluoromethane	91.4	74.3-130		%REC	177552	50	06/17/2013 23:26	GK
Surr: Dibromofluoromethane	91.3	74.3-130		%REC	177552	100	06/18/2013 17:47	GK
Surr: Toluene-d8	104	72.8-122		%REC	177552	50	06/17/2013 23:26	GK
Surr: Toluene-d8	98.5	72.8-122		%REC	177552	100	06/18/2013 17:47	GK
METALS, TOTAL SW6010C					(SW3050B)			
Lead	128	5.05		mg/Kg-dry	177551	1	06/19/2013 21:13	MR
PERCENT MOISTURE D2216								
Percent Moisture	9.89	0		wt%	R246376	1	06/18/2013 17:00	LW

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 27-Jun-13

Client: Arcadis	Client Sample ID: ZONE5-B1
Project Name: Lafarge East Point	Collection Date: 6/13/2013 12:46:00 PM
Lab ID: 1306C98-003	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					(SW3050B)			
Lead	1020	6.43		mg/Kg-dry	177551	1	06/19/2013 21:33	MR
PERCENT MOISTURE D2216								
Percent Moisture	23.7	0		wt%	R246376	1	06/18/2013 17:00	LW

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 27-Jun-13

Client: Arcadis	Client Sample ID: ZONE5-B3
Project Name: Lafarge East Point	Collection Date: 6/13/2013 12:48:00 PM
Lab ID: 1306C98-004	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					(SW3050B)			
Lead	1200	5.70		mg/Kg-dry	177551	1	06/19/2013 21:38	MR
PERCENT MOISTURE D2216								
Percent Moisture	17.2	0		wt%	R246376	1	06/18/2013 17:00	LW

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 27-Jun-13

Client: Arcadis	Client Sample ID: ZONE5-C2
Project Name: Lafarge East Point	Collection Date: 6/13/2013 12:50:00 PM
Lab ID: 1306C98-005	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					(SW3050B)			
Lead	212	5.80		mg/Kg-dry	177551	1	06/19/2013 21:43	MR
PERCENT MOISTURE D2216								
Percent Moisture	14.3	0		wt%	R246376	1	06/18/2013 17:00	LW

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis
 Project Name: Lafarge East Point
 Lab ID: 1306C98-006

Client Sample ID: ZONE5-D1
 Collection Date: 6/13/2013 12:52:00 PM
 Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	3.5		ug/Kg-dry	177529	1	06/18/2013 01:13	MD
1,1,2,2-Tetrachloroethane	BRL	3.5		ug/Kg-dry	177529	1	06/18/2013 01:13	MD
1,1,2-Trichloroethane	BRL	3.5		ug/Kg-dry	177529	1	06/18/2013 01:13	MD
1,1-Dichloroethane	BRL	3.5		ug/Kg-dry	177529	1	06/18/2013 01:13	MD
1,1-Dichloroethene	BRL	3.5		ug/Kg-dry	177529	1	06/18/2013 01:13	MD
1,2,4-Trichlorobenzene	BRL	3.5		ug/Kg-dry	177529	1	06/18/2013 01:13	MD
1,2-Dibromo-3-chloropropane	BRL	3.5		ug/Kg-dry	177529	1	06/18/2013 01:13	MD
1,2-Dibromoethane	BRL	3.5		ug/Kg-dry	177529	1	06/18/2013 01:13	MD
1,2-Dichlorobenzene	BRL	3.5		ug/Kg-dry	177529	1	06/18/2013 01:13	MD
1,2-Dichloroethane	BRL	3.5		ug/Kg-dry	177529	1	06/18/2013 01:13	MD
1,2-Dichloropropane	BRL	3.5		ug/Kg-dry	177529	1	06/18/2013 01:13	MD
1,3-Dichlorobenzene	BRL	3.5		ug/Kg-dry	177529	1	06/18/2013 01:13	MD
1,4-Dichlorobenzene	BRL	3.5		ug/Kg-dry	177529	1	06/18/2013 01:13	MD
2-Butanone	35	35		ug/Kg-dry	177529	1	06/18/2013 01:13	MD
2-Hexanone	BRL	7.1		ug/Kg-dry	177529	1	06/18/2013 01:13	MD
4-Methyl-2-pentanone	BRL	7.1		ug/Kg-dry	177529	1	06/18/2013 01:13	MD
Acetone	120	71		ug/Kg-dry	177529	1	06/18/2013 01:13	MD
Benzene	17	3.5		ug/Kg-dry	177529	1	06/18/2013 01:13	MD
Bromodichloromethane	BRL	3.5		ug/Kg-dry	177529	1	06/18/2013 01:13	MD
Bromoform	BRL	3.5		ug/Kg-dry	177529	1	06/18/2013 01:13	MD
Bromomethane	BRL	3.5		ug/Kg-dry	177529	1	06/18/2013 01:13	MD
Carbon disulfide	BRL	7.1		ug/Kg-dry	177529	1	06/18/2013 01:13	MD
Carbon tetrachloride	BRL	3.5		ug/Kg-dry	177529	1	06/18/2013 01:13	MD
Chlorobenzene	BRL	3.5		ug/Kg-dry	177529	1	06/18/2013 01:13	MD
Chloroethane	BRL	7.1		ug/Kg-dry	177529	1	06/18/2013 01:13	MD
Chloroform	BRL	3.5		ug/Kg-dry	177529	1	06/18/2013 01:13	MD
Chloromethane	BRL	7.1		ug/Kg-dry	177529	1	06/18/2013 01:13	MD
cis-1,2-Dichloroethene	BRL	3.5		ug/Kg-dry	177529	1	06/18/2013 01:13	MD
cis-1,3-Dichloropropene	BRL	3.5		ug/Kg-dry	177529	1	06/18/2013 01:13	MD
Cyclohexane	2000	200		ug/Kg-dry	177552	50	06/18/2013 18:17	GK
Dibromochloromethane	BRL	3.5		ug/Kg-dry	177529	1	06/18/2013 01:13	MD
Dichlorodifluoromethane	BRL	7.1		ug/Kg-dry	177529	1	06/18/2013 01:13	MD
Ethylbenzene	27	3.5		ug/Kg-dry	177529	1	06/18/2013 01:13	MD
Freon-113	BRL	7.1		ug/Kg-dry	177529	1	06/18/2013 01:13	MD
Isopropylbenzene	1100	200		ug/Kg-dry	177552	50	06/18/2013 18:17	GK
m,p-Xylene	BRL	3.5		ug/Kg-dry	177529	1	06/18/2013 01:13	MD
Methyl acetate	BRL	3.5		ug/Kg-dry	177529	1	06/18/2013 01:13	MD
Methyl tert-butyl ether	BRL	3.5		ug/Kg-dry	177529	1	06/18/2013 01:13	MD
Methylcyclohexane	830	200		ug/Kg-dry	177552	50	06/18/2013 18:17	GK
Methylene chloride	BRL	14		ug/Kg-dry	177529	1	06/18/2013 01:13	MD
o-Xylene	BRL	3.5		ug/Kg-dry	177529	1	06/18/2013 01:13	MD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: ZONE5-D1
Project Name: Lafarge East Point	Collection Date: 6/13/2013 12:52:00 PM
Lab ID: 1306C98-006	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B		(SW5035)						
Styrene	BRL	3.5		ug/Kg-dry	177529	1	06/18/2013 01:13	MD
Tetrachloroethene	BRL	3.5		ug/Kg-dry	177529	1	06/18/2013 01:13	MD
Toluene	BRL	3.5		ug/Kg-dry	177529	1	06/18/2013 01:13	MD
trans-1,2-Dichloroethene	BRL	3.5		ug/Kg-dry	177529	1	06/18/2013 01:13	MD
trans-1,3-Dichloropropene	BRL	3.5		ug/Kg-dry	177529	1	06/18/2013 01:13	MD
Trichloroethene	BRL	3.5		ug/Kg-dry	177529	1	06/18/2013 01:13	MD
Trichlorofluoromethane	BRL	3.5		ug/Kg-dry	177529	1	06/18/2013 01:13	MD
Vinyl chloride	BRL	7.1		ug/Kg-dry	177529	1	06/18/2013 01:13	MD
Surr: 4-Bromofluorobenzene	85	63.8-133		%REC	177552	50	06/18/2013 18:17	GK
Surr: 4-Bromofluorobenzene	88.2	63.8-133		%REC	177529	1	06/18/2013 01:13	MD
Surr: Dibromofluoromethane	90.2	74.3-130		%REC	177552	50	06/18/2013 18:17	GK
Surr: Dibromofluoromethane	101	74.3-130		%REC	177529	1	06/18/2013 01:13	MD
Surr: Toluene-d8	95.6	72.8-122		%REC	177552	50	06/18/2013 18:17	GK
Surr: Toluene-d8	110	72.8-122		%REC	177529	1	06/18/2013 01:13	MD
METALS, TOTAL SW6010C		(SW3050B)						
Lead	177	5.79		mg/Kg-dry	177551	1	06/19/2013 21:48	MR
PERCENT MOISTURE D2216								
Percent Moisture	20.1	0		wt%	R246376	1	06/18/2013 17:00	LW

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 27-Jun-13

Client: Arcadis	Client Sample ID: ZONE5-D3
Project Name: Lafarge East Point	Collection Date: 6/13/2013 12:54:00 PM
Lab ID: 1306C98-007	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					(SW3050B)			
Lead	82.0	5.10		mg/Kg-dry	177551	1	06/19/2013 21:52	MR
PERCENT MOISTURE D2216								
Percent Moisture	9.29	0		wt%	R246376	1	06/18/2013 17:00	LW

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis
 Project Name: Lafarge East Point
 Lab ID: 1306C98-008

Client Sample ID: ZONE5-B3 WEST WALL
 Collection Date: 6/13/2013 12:58:00 PM
 Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	3.6		ug/Kg-dry	177529	1	06/18/2013 01:41	MD
1,1,2,2-Tetrachloroethane	BRL	3.6		ug/Kg-dry	177529	1	06/18/2013 01:41	MD
1,1,2-Trichloroethane	BRL	3.6		ug/Kg-dry	177529	1	06/18/2013 01:41	MD
1,1-Dichloroethane	BRL	3.6		ug/Kg-dry	177529	1	06/18/2013 01:41	MD
1,1-Dichloroethene	BRL	3.6		ug/Kg-dry	177529	1	06/18/2013 01:41	MD
1,2,4-Trichlorobenzene	BRL	3.6		ug/Kg-dry	177529	1	06/18/2013 01:41	MD
1,2-Dibromo-3-chloropropane	BRL	3.6		ug/Kg-dry	177529	1	06/18/2013 01:41	MD
1,2-Dibromoethane	BRL	3.6		ug/Kg-dry	177529	1	06/18/2013 01:41	MD
1,2-Dichlorobenzene	BRL	3.6		ug/Kg-dry	177529	1	06/18/2013 01:41	MD
1,2-Dichloroethane	BRL	3.6		ug/Kg-dry	177529	1	06/18/2013 01:41	MD
1,2-Dichloropropane	BRL	3.6		ug/Kg-dry	177529	1	06/18/2013 01:41	MD
1,3-Dichlorobenzene	BRL	3.6		ug/Kg-dry	177529	1	06/18/2013 01:41	MD
1,4-Dichlorobenzene	BRL	3.6		ug/Kg-dry	177529	1	06/18/2013 01:41	MD
2-Butanone	BRL	36		ug/Kg-dry	177529	1	06/18/2013 01:41	MD
2-Hexanone	BRL	7.3		ug/Kg-dry	177529	1	06/18/2013 01:41	MD
4-Methyl-2-pentanone	BRL	7.3		ug/Kg-dry	177529	1	06/18/2013 01:41	MD
Acetone	BRL	73		ug/Kg-dry	177529	1	06/18/2013 01:41	MD
Benzene	43	3.6		ug/Kg-dry	177529	1	06/18/2013 01:41	MD
Bromodichloromethane	BRL	3.6		ug/Kg-dry	177529	1	06/18/2013 01:41	MD
Bromoform	BRL	3.6		ug/Kg-dry	177529	1	06/18/2013 01:41	MD
Bromomethane	BRL	3.6		ug/Kg-dry	177529	1	06/18/2013 01:41	MD
Carbon disulfide	BRL	7.3		ug/Kg-dry	177529	1	06/18/2013 01:41	MD
Carbon tetrachloride	BRL	3.6		ug/Kg-dry	177529	1	06/18/2013 01:41	MD
Chlorobenzene	BRL	3.6		ug/Kg-dry	177529	1	06/18/2013 01:41	MD
Chloroethane	BRL	7.3		ug/Kg-dry	177529	1	06/18/2013 01:41	MD
Chloroform	BRL	3.6		ug/Kg-dry	177529	1	06/18/2013 01:41	MD
Chloromethane	BRL	7.3		ug/Kg-dry	177529	1	06/18/2013 01:41	MD
cis-1,2-Dichloroethene	BRL	3.6		ug/Kg-dry	177529	1	06/18/2013 01:41	MD
cis-1,3-Dichloropropene	BRL	3.6		ug/Kg-dry	177529	1	06/18/2013 01:41	MD
Cyclohexane	BRL	3.6		ug/Kg-dry	177529	1	06/18/2013 01:41	MD
Dibromochloromethane	BRL	3.6		ug/Kg-dry	177529	1	06/18/2013 01:41	MD
Dichlorodifluoromethane	BRL	7.3		ug/Kg-dry	177529	1	06/18/2013 01:41	MD
Ethylbenzene	4800	180		ug/Kg-dry	177552	50	06/19/2013 16:40	GK
Freon-113	BRL	7.3		ug/Kg-dry	177529	1	06/18/2013 01:41	MD
Isopropylbenzene	8.6	3.6		ug/Kg-dry	177529	1	06/18/2013 01:41	MD
m,p-Xylene	BRL	3.6		ug/Kg-dry	177529	1	06/18/2013 01:41	MD
Methyl acetate	BRL	3.6		ug/Kg-dry	177529	1	06/18/2013 01:41	MD
Methyl tert-butyl ether	BRL	3.6		ug/Kg-dry	177529	1	06/18/2013 01:41	MD
Methylcyclohexane	72	3.6		ug/Kg-dry	177529	1	06/18/2013 01:41	MD
Methylene chloride	BRL	15		ug/Kg-dry	177529	1	06/18/2013 01:41	MD
o-Xylene	BRL	3.6		ug/Kg-dry	177529	1	06/18/2013 01:41	MD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: ZONE5-B3 WEST WALL
Project Name: Lafarge East Point	Collection Date: 6/13/2013 12:58:00 PM
Lab ID: 1306C98-008	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B		(SW5035)						
Styrene	BRL	3.6		ug/Kg-dry	177529	1	06/18/2013 01:41	MD
Tetrachloroethene	BRL	3.6		ug/Kg-dry	177529	1	06/18/2013 01:41	MD
Toluene	BRL	3.6		ug/Kg-dry	177529	1	06/18/2013 01:41	MD
trans-1,2-Dichloroethene	BRL	3.6		ug/Kg-dry	177529	1	06/18/2013 01:41	MD
trans-1,3-Dichloropropene	BRL	3.6		ug/Kg-dry	177529	1	06/18/2013 01:41	MD
Trichloroethene	BRL	3.6		ug/Kg-dry	177529	1	06/18/2013 01:41	MD
Trichlorofluoromethane	BRL	3.6		ug/Kg-dry	177529	1	06/18/2013 01:41	MD
Vinyl chloride	BRL	7.3		ug/Kg-dry	177529	1	06/18/2013 01:41	MD
Surr: 4-Bromofluorobenzene	91.6	63.8-133		%REC	177552	50	06/19/2013 16:40	GK
Surr: 4-Bromofluorobenzene	94.4	63.8-133		%REC	177529	1	06/18/2013 01:41	MD
Surr: Dibromofluoromethane	91.5	74.3-130		%REC	177552	50	06/19/2013 16:40	GK
Surr: Dibromofluoromethane	93	74.3-130		%REC	177529	1	06/18/2013 01:41	MD
Surr: Toluene-d8	97.7	72.8-122		%REC	177552	50	06/19/2013 16:40	GK
Surr: Toluene-d8	96.7	72.8-122		%REC	177529	1	06/18/2013 01:41	MD
METALS, TOTAL SW6010C		(SW3050B)						
Lead	19.3	5.16		mg/Kg-dry	177551	1	06/19/2013 21:57	MR
PERCENT MOISTURE D2216								
Percent Moisture	11.1	0		wt%	R246376	1	06/18/2013 17:00	LW

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 27-Jun-13

Client: Arcadis	Client Sample ID: ZONE5-B4 EAST WALL
Project Name: Lafarge East Point	Collection Date: 6/13/2013 1:00:00 PM
Lab ID: 1306C98-009	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					(SW3050B)			
Lead	1420	5.63		mg/Kg-dry	177551	1	06/19/2013 22:02	MR
PERCENT MOISTURE D2216								
Percent Moisture	16.5	0		wt%	R246376	1	06/18/2013 17:00	LW

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 27-Jun-13

Client: Arcadis	Client Sample ID: ZONE5-A4 WEST WALL
Project Name: Lafarge East Point	Collection Date: 6/13/2013 12:56:00 PM
Lab ID: 1306C98-010	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					(SW3050B)			
Lead	1410	5.54		mg/Kg-dry	177551	1	06/19/2013 22:09	MR
PERCENT MOISTURE D2216								
Percent Moisture	10.2	0		wt%	R246376	1	06/18/2013 17:00	LW

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 27-Jun-13

Client: Arcadis	Client Sample ID: ZONE5-B1 NORTH WALL
Project Name: Lafarge East Point	Collection Date: 6/13/2013 1:15:00 PM
Lab ID: 1306C98-011	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					(SW3050B)			
Lead	603	5.66		mg/Kg-dry	177551	1	06/19/2013 22:14	MR
PERCENT MOISTURE D2216								
Percent Moisture	17.1	0		wt%	R246376	1	06/18/2013 17:00	LW

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 27-Jun-13

Client: Arcadis	Client Sample ID: ZONE5-D1 NORTH WALL
Project Name: Lafarge East Point	Collection Date: 6/13/2013 1:10:00 PM
Lab ID: 1306C98-012	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					(SW3050B)			
Lead	135	6.54		mg/Kg-dry	177551	1	06/19/2013 22:18	MR
PERCENT MOISTURE D2216								
Percent Moisture	25.5	0		wt%	R246376	1	06/18/2013 17:00	LW

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: ZONE5-D3 SOUTH WALL
Project Name: Lafarge East Point	Collection Date: 6/13/2013 1:05:00 PM
Lab ID: 1306C98-013	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	400		ug/Kg-dry	177552	100	06/17/2013 23:57	GK
1,1,2,2-Tetrachloroethane	BRL	400		ug/Kg-dry	177552	100	06/17/2013 23:57	GK
1,1,2-Trichloroethane	BRL	400		ug/Kg-dry	177552	100	06/17/2013 23:57	GK
1,1-Dichloroethane	BRL	400		ug/Kg-dry	177552	100	06/17/2013 23:57	GK
1,1-Dichloroethene	BRL	400		ug/Kg-dry	177552	100	06/17/2013 23:57	GK
1,2,4-Trichlorobenzene	BRL	400		ug/Kg-dry	177552	100	06/17/2013 23:57	GK
1,2-Dibromo-3-chloropropane	BRL	400		ug/Kg-dry	177552	100	06/17/2013 23:57	GK
1,2-Dibromoethane	BRL	400		ug/Kg-dry	177552	100	06/17/2013 23:57	GK
1,2-Dichlorobenzene	BRL	400		ug/Kg-dry	177552	100	06/17/2013 23:57	GK
1,2-Dichloroethane	BRL	400		ug/Kg-dry	177552	100	06/17/2013 23:57	GK
1,2-Dichloropropane	BRL	400		ug/Kg-dry	177552	100	06/17/2013 23:57	GK
1,3-Dichlorobenzene	BRL	400		ug/Kg-dry	177552	100	06/17/2013 23:57	GK
1,4-Dichlorobenzene	BRL	400		ug/Kg-dry	177552	100	06/17/2013 23:57	GK
2-Butanone	BRL	4000		ug/Kg-dry	177552	100	06/17/2013 23:57	GK
2-Hexanone	BRL	810		ug/Kg-dry	177552	100	06/17/2013 23:57	GK
4-Methyl-2-pentanone	BRL	810		ug/Kg-dry	177552	100	06/17/2013 23:57	GK
Acetone	BRL	8100		ug/Kg-dry	177552	100	06/17/2013 23:57	GK
Benzene	5200	400		ug/Kg-dry	177552	100	06/17/2013 23:57	GK
Bromodichloromethane	BRL	400		ug/Kg-dry	177552	100	06/17/2013 23:57	GK
Bromoform	BRL	400		ug/Kg-dry	177552	100	06/17/2013 23:57	GK
Bromomethane	BRL	400		ug/Kg-dry	177552	100	06/17/2013 23:57	GK
Carbon disulfide	BRL	810		ug/Kg-dry	177552	100	06/17/2013 23:57	GK
Carbon tetrachloride	BRL	400		ug/Kg-dry	177552	100	06/17/2013 23:57	GK
Chlorobenzene	BRL	400		ug/Kg-dry	177552	100	06/17/2013 23:57	GK
Chloroethane	BRL	810		ug/Kg-dry	177552	100	06/17/2013 23:57	GK
Chloroform	BRL	400		ug/Kg-dry	177552	100	06/17/2013 23:57	GK
Chloromethane	BRL	810		ug/Kg-dry	177552	100	06/17/2013 23:57	GK
cis-1,2-Dichloroethene	BRL	400		ug/Kg-dry	177552	100	06/17/2013 23:57	GK
cis-1,3-Dichloropropene	BRL	400		ug/Kg-dry	177552	100	06/17/2013 23:57	GK
Cyclohexane	9100	400		ug/Kg-dry	177552	100	06/17/2013 23:57	GK
Dibromochloromethane	BRL	400		ug/Kg-dry	177552	100	06/17/2013 23:57	GK
Dichlorodifluoromethane	BRL	810		ug/Kg-dry	177552	100	06/17/2013 23:57	GK
Ethylbenzene	6300	400		ug/Kg-dry	177552	100	06/17/2013 23:57	GK
Freon-113	BRL	810		ug/Kg-dry	177552	100	06/17/2013 23:57	GK
Isopropylbenzene	730	400		ug/Kg-dry	177552	100	06/17/2013 23:57	GK
m,p-Xylene	3500	400		ug/Kg-dry	177552	100	06/17/2013 23:57	GK
Methyl acetate	BRL	400		ug/Kg-dry	177552	100	06/17/2013 23:57	GK
Methyl tert-butyl ether	BRL	400		ug/Kg-dry	177552	100	06/17/2013 23:57	GK
Methylcyclohexane	7500	400		ug/Kg-dry	177552	100	06/17/2013 23:57	GK
Methylene chloride	BRL	1600		ug/Kg-dry	177552	100	06/17/2013 23:57	GK
o-Xylene	820	400		ug/Kg-dry	177552	100	06/17/2013 23:57	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: ZONE5-D3 SOUTH WALL
Project Name: Lafarge East Point	Collection Date: 6/13/2013 1:05:00 PM
Lab ID: 1306C98-013	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B		(SW5035)						
Styrene	BRL	400		ug/Kg-dry	177552	100	06/17/2013 23:57	GK
Tetrachloroethene	BRL	400		ug/Kg-dry	177552	100	06/17/2013 23:57	GK
Toluene	940	400		ug/Kg-dry	177552	100	06/17/2013 23:57	GK
trans-1,2-Dichloroethene	BRL	400		ug/Kg-dry	177552	100	06/17/2013 23:57	GK
trans-1,3-Dichloropropene	BRL	400		ug/Kg-dry	177552	100	06/17/2013 23:57	GK
Trichloroethene	BRL	400		ug/Kg-dry	177552	100	06/17/2013 23:57	GK
Trichlorofluoromethane	BRL	400		ug/Kg-dry	177552	100	06/17/2013 23:57	GK
Vinyl chloride	BRL	810		ug/Kg-dry	177552	100	06/17/2013 23:57	GK
Surr: 4-Bromofluorobenzene	87	63.8-133		%REC	177552	100	06/17/2013 23:57	GK
Surr: Dibromofluoromethane	90.8	74.3-130		%REC	177552	100	06/17/2013 23:57	GK
Surr: Toluene-d8	96.9	72.8-122		%REC	177552	100	06/17/2013 23:57	GK
METALS, TOTAL SW6010C		(SW3050B)						
Lead	238	5.62		mg/Kg-dry	177551	1	06/19/2013 22:29	MR
PERCENT MOISTURE D2216								
Percent Moisture	17.3	0		wt%	R246376	1	06/18/2013 17:00	LW

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Arcadis Work Order Number 1306C98

Checklist completed by PK Signature Date 6/14/13

Carrier name: FedEx UPS Courier Client US Mail Other

Shipping container/cooler in good condition? Yes No Not Present

Custody seals intact on shipping container/cooler? Yes No Not Present

Custody seals intact on sample bottles? Yes No Not Present

Container/Temp Blank temperature in compliance? (4°C±2)* Yes No

Cooler #1 3-5 Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present? Yes No

Chain of custody signed when relinquished and received? Yes No

Chain of custody agrees with sample labels? Yes No

Samples in proper container/bottle? Yes No

Sample containers intact? Yes No

Sufficient sample volume for indicated test? Yes No

All samples received within holding time? Yes No

Was TAT marked on the COC? Yes No

Proceed with Standard TAT as per project history? Yes No Not Applicable

Water - VOA vials have zero headspace? No VOA vials submitted Yes No

Water - pH acceptable upon receipt? Yes No Not Applicable

Sample Condition: Good Other(Explain) _____ Adjusted? _____ Checked by _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes No

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

Client: Arcadis
 Project Name: Lafarge East Point
 Workorder: 1306C98

ANALYTICAL QC SUMMARY REPORT

BatchID: 177529

Sample ID: MB-177529	Client ID:	Units: ug/Kg	Prep Date: 06/17/2013	Run No: 246211							
Sample Type: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 177529	Analysis Date: 06/17/2013	Seq No: 5158111							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
2-Butanone	BRL	50									
2-Hexanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	100									
Benzene	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon disulfide	BRL	10									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									
Chloroform	BRL	5.0									
Chloromethane	BRL	10									

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
Project Name: Lafarge East Point
Workorder: 1306C98

ANALYTICAL QC SUMMARY REPORT

BatchID: 177529

Sample ID: MB-177529	Client ID:	Units: ug/Kg	Prep Date: 06/17/2013	Run No: 246211							
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 177529	Analysis Date: 06/17/2013	Seq No: 5158111							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	20									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	10									
Surr: 4-Bromofluorobenzene	43.36	0	50.00		86.7	63.8	133				
Surr: Dibromofluoromethane	49.20	0	50.00		98.4	74.3	130				
Surr: Toluene-d8	47.83	0	50.00		95.7	72.8	122				

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
Project Name: Lafarge East Point
Workorder: 1306C98

ANALYTICAL QC SUMMARY REPORT

BatchID: 177529

Sample ID: LCS-177529	Client ID:	Units: ug/Kg	Prep Date: 06/17/2013	Run No: 246211							
SampleType: LCS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 177529	Analysis Date: 06/17/2013	Seq No: 5158051							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	48.95	5.0	50.00		97.9	63.1	140				
Benzene	51.57	5.0	50.00		103	70.2	130				
Chlorobenzene	46.23	5.0	50.00		92.5	70	126				
Toluene	52.42	5.0	50.00		105	70.5	130				
Trichloroethene	49.14	5.0	50.00		98.3	70	135				
Surr: 4-Bromofluorobenzene	51.08	0	50.00		102	63.8	133				
Surr: Dibromofluoromethane	51.59	0	50.00		103	74.3	130				
Surr: Toluene-d8	48.09	0	50.00		96.2	72.8	122				

Sample ID: 1306B29-001DMS	Client ID:	Units: ug/Kg-dry	Prep Date: 06/17/2013	Run No: 246211							
SampleType: MS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 177529	Analysis Date: 06/17/2013	Seq No: 5158061							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	39.91	5.3	53.17		75.1	58.8	157				
Benzene	56.24	5.3	53.17		106	66.3	139				
Chlorobenzene	51.45	5.3	53.17		96.8	67.8	131				
Toluene	58.22	5.3	53.17		110	66	138				
Trichloroethene	54.61	5.3	53.17		103	72.5	141				
Surr: 4-Bromofluorobenzene	53.90	0	53.17		101	63.8	133				
Surr: Dibromofluoromethane	51.36	0	53.17		96.6	74.3	130				
Surr: Toluene-d8	51.77	0	53.17		97.4	72.8	122				

Sample ID: 1306B29-001DMSD	Client ID:	Units: ug/Kg-dry	Prep Date: 06/17/2013	Run No: 246211							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 177529	Analysis Date: 06/17/2013	Seq No: 5158062							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	45.43	5.3	53.17		85.4	58.8	157	39.91	12.9	21.9	
Benzene	53.23	5.3	53.17		100	66.3	139	56.24	5.50	22.3	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
 Project Name: Lafarge East Point
 Workorder: 1306C98

ANALYTICAL QC SUMMARY REPORT

BatchID: 177529

Sample ID: 1306B29-001DMSD	Client ID:	Units: ug/Kg-dry	Prep Date: 06/17/2013	Run No: 246211							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 177529	Analysis Date: 06/17/2013	Seq No: 5158062							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chlorobenzene	49.76	5.3	53.17		93.6	67.8	131	51.45	3.34	17.3	
Toluene	55.00	5.3	53.17		103	66	138	58.22	5.69	18.1	
Trichloroethene	51.82	5.3	53.17		97.5	72.5	141	54.61	5.24	18.7	
Surr: 4-Bromofluorobenzene	55.54	0	53.17		104	63.8	133	53.90	0	0	
Surr: Dibromofluoromethane	54.52	0	53.17		103	74.3	130	51.36	0	0	
Surr: Toluene-d8	52.54	0	53.17		98.8	72.8	122	51.77	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
Project Name: Lafarge East Point
Workorder: 1306C98

ANALYTICAL QC SUMMARY REPORT

BatchID: 177551

Sample ID: MB-177551	Client ID:	Units: mg/Kg	Prep Date: 06/19/2013	Run No: 246389							
SampleType: MBLK	TestCode: METALS, TOTAL SW6010C	BatchID: 177551	Analysis Date: 06/19/2013	Seq No: 5161952							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Lead BRL 5.00

Sample ID: LCS-177551	Client ID:	Units: mg/Kg	Prep Date: 06/19/2013	Run No: 246389							
SampleType: LCS	TestCode: METALS, TOTAL SW6010C	BatchID: 177551	Analysis Date: 06/19/2013	Seq No: 5161949							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Lead 49.00 5.00 50.00 98.0 80 120

Sample ID: 1306F21-002AMS	Client ID:	Units: mg/Kg-dry	Prep Date: 06/19/2013	Run No: 246389							
SampleType: MS	TestCode: METALS, TOTAL SW6010C	BatchID: 177551	Analysis Date: 06/19/2013	Seq No: 5161957							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Lead 41.69 4.80 48.03 14.33 57.0 75 125 S

Sample ID: 1306F21-002AMSD	Client ID:	Units: mg/Kg-dry	Prep Date: 06/19/2013	Run No: 246389							
SampleType: MSD	TestCode: METALS, TOTAL SW6010C	BatchID: 177551	Analysis Date: 06/19/2013	Seq No: 5161960							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Lead 41.39 4.79 47.90 14.33 56.5 75 125 41.69 0.714 20 S

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Arcadis
Project Name: Lafarge East Point
Workorder: 1306C98

ANALYTICAL QC SUMMARY REPORT

BatchID: 177552

Sample ID: MB-177552	Client ID:	Units: ug/Kg	Prep Date: 06/17/2013	Run No: 246190							
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 177552	Analysis Date: 06/17/2013	Seq No: 5157697							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	BRL	250									
1,1,2,2-Tetrachloroethane	BRL	250									
1,1,2-Trichloroethane	BRL	250									
1,1-Dichloroethane	BRL	250									
1,1-Dichloroethene	BRL	250									
1,2,4-Trichlorobenzene	BRL	250									
1,2-Dibromo-3-chloropropane	BRL	250									
1,2-Dibromoethane	BRL	250									
1,2-Dichlorobenzene	BRL	250									
1,2-Dichloroethane	BRL	250									
1,2-Dichloropropane	BRL	250									
1,3-Dichlorobenzene	BRL	250									
1,4-Dichlorobenzene	BRL	250									
2-Butanone	BRL	2500									
2-Hexanone	BRL	500									
4-Methyl-2-pentanone	BRL	500									
Acetone	BRL	5000									
Benzene	BRL	250									
Bromodichloromethane	BRL	250									
Bromoform	BRL	250									
Bromomethane	BRL	250									
Carbon disulfide	BRL	500									
Carbon tetrachloride	BRL	250									
Chlorobenzene	BRL	250									
Chloroethane	BRL	500									
Chloroform	BRL	250									
Chloromethane	BRL	500									

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
Project Name: Lafarge East Point
Workorder: 1306C98

ANALYTICAL QC SUMMARY REPORT

BatchID: 177552

Sample ID: MB-177552	Client ID:	Units: ug/Kg	Prep Date: 06/17/2013	Run No: 246190							
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 177552	Analysis Date: 06/17/2013	Seq No: 5157697							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	BRL	250									
cis-1,3-Dichloropropene	BRL	250									
Cyclohexane	BRL	250									
Dibromochloromethane	BRL	250									
Dichlorodifluoromethane	BRL	500									
Ethylbenzene	BRL	250									
Freon-113	BRL	500									
Isopropylbenzene	BRL	250									
m,p-Xylene	BRL	250									
Methyl acetate	BRL	250									
Methyl tert-butyl ether	BRL	250									
Methylcyclohexane	BRL	250									
Methylene chloride	BRL	1000									
o-Xylene	BRL	250									
Styrene	BRL	250									
Tetrachloroethene	BRL	250									
Toluene	BRL	250									
trans-1,2-Dichloroethene	BRL	250									
trans-1,3-Dichloropropene	BRL	250									
Trichloroethene	BRL	250									
Trichlorofluoromethane	BRL	250									
Vinyl chloride	BRL	500									
Surr: 4-Bromofluorobenzene	2252	0	2500		90.1	63.8	133				
Surr: Dibromofluoromethane	2435	0	2500		97.4	74.3	130				
Surr: Toluene-d8	2387	0	2500		95.5	72.8	122				

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
Project Name: Lafarge East Point
Workorder: 1306C98

ANALYTICAL QC SUMMARY REPORT

BatchID: 177552

Sample ID: LCS-177552	Client ID:	Units: ug/Kg	Prep Date: 06/17/2013	Run No: 246190							
SampleType: LCS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 177552	Analysis Date: 06/17/2013	Seq No: 5159378							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	2422	250	2500		96.9	63.1	140				
Benzene	2386	250	2500		95.4	70.2	130				
Chlorobenzene	2284	250	2500		91.4	70	126				
Toluene	2506	250	2500		100	70.5	130				
Trichloroethene	2761	250	2500		110	70	135				
Surr: 4-Bromofluorobenzene	2380	0	2500		95.2	63.8	133				
Surr: Dibromofluoromethane	2488	0	2500		99.5	74.3	130				
Surr: Toluene-d8	2444	0	2500		97.7	72.8	122				

Sample ID: 1306C97-001AMS	Client ID:	Units: ug/Kg-dry	Prep Date: 06/17/2013	Run No: 246190							
SampleType: MS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 177552	Analysis Date: 06/17/2013	Seq No: 5159499							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	3612	360	3588		101	58.8	157				
Benzene	3687	360	3588		103	66.3	139				
Chlorobenzene	3503	360	3588		97.6	67.8	131				
Toluene	3814	360	3588	73.20	104	66	138				
Trichloroethene	4175	360	3588		116	72.5	141				
Surr: 4-Bromofluorobenzene	2188	0	3588		61.0	63.8	133				S
Surr: Dibromofluoromethane	3564	0	3588		99.3	74.3	130				
Surr: Toluene-d8	3593	0	3588		100	72.8	122				

Sample ID: 1306C97-001AMSD	Client ID:	Units: ug/Kg-dry	Prep Date: 06/17/2013	Run No: 246190							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 177552	Analysis Date: 06/17/2013	Seq No: 5159501							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	3743	360	3588		104	58.8	157	3612	3.55	21.9	
Benzene	3580	360	3588		99.8	66.3	139	3687	2.94	22.3	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
 Project Name: Lafarge East Point
 Workorder: 1306C98

ANALYTICAL QC SUMMARY REPORT

BatchID: 177552

Sample ID: 1306C97-001AMSD	Client ID:	Units: ug/Kg-dry	Prep Date: 06/17/2013	Run No: 246190
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 177552	Analysis Date: 06/17/2013	Seq No: 5159501

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	3401	360	3588		94.8	67.8	131	3503	2.95	17.3	
Toluene	3789	360	3588	73.20	104	66	138	3814	0.661	18.1	
Trichloroethene	4015	360	3588		112	72.5	141	4175	3.89	18.7	
Surr: 4-Bromofluorobenzene	2175	0	3588		60.6	63.8	133	2188	0	0	S
Surr: Dibromofluoromethane	3465	0	3588		96.6	74.3	130	3564	0	0	
Surr: Toluene-d8	3601	0	3588		100	72.8	122	3593	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		



June 12, 2013

Peter Cornais
Arcadis
2081 Vista Parkway, Suite 200
West Palm Beach FL 33411

TEL: (850) 445-0829
FAX:

RE: Lafarge EP

Dear Peter Cornais:

Order No: 1305040

Analytical Environmental Services, Inc. received 1 samples on 5/29/2013 2:05:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/12-06/30/13.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/13.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Chantelle Kanhai
Project Manager



COMPANY: ARCADIS		ADDRESS: 1000 Cobb Place Blvd, Bldg 500-A Kennesaw, GA 30144			ANALYSIS REQUESTED					Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.		No # of Containers																			
PHONE:		FAX:			PRESERVATION (See codes)					REMARKS																					
SAMPLED BY: Kaitlin Maloney (Mare Meyer)		SIGNATURE: <i>[Signature]</i>			<table border="1"> <tr> <td>Full List</td> <td>IC17 VOLs</td> <td>IC17 SVOCs</td> <td>IC17 PCBs</td> <td>IC17 PAHs</td> <td>IC17 Pesticides</td> <td>IC17 Ions</td> <td>IC17 Metals</td> <td>IC17 Other</td> <td>IC17 Matrix</td> </tr> <tr> <td></td> </tr> </table>					Full List	IC17 VOLs	IC17 SVOCs	IC17 PCBs	IC17 PAHs	IC17 Pesticides	IC17 Ions	IC17 Metals	IC17 Other	IC17 Matrix												
Full List	IC17 VOLs	IC17 SVOCs	IC17 PCBs	IC17 PAHs	IC17 Pesticides	IC17 Ions	IC17 Metals	IC17 Other	IC17 Matrix																						
#	SAMPLE ID	DATE	TIME	Grab	Composite	Matrix (See codes)																									
1	Zone 3b - SP-1	5/29/13	1315		X	SO	I	I	I	I		Run PAHs and PCBs & Metals Hold Sample for SVOC Full List, Herbicides, Pesticides	5																		
2																															
3																															
4																															
5																															
6																															
7																															
8																															
9																															
10																															
11																															
12																															
13																															
14																															
RELINQUISHED BY		DATE/TIME	RECEIVED BY		DATE/TIME	PROJECT INFORMATION					RECEIPT																				
1: Mare Meyer		5-29-13/1405	1: <i>[Signature]</i>		5/29/13/140	PROJECT NAME: Labge E.P.					Total # of Containers: 5																				
2:			2: <i>[Signature]</i>		2:05	PROJECT #: HT-212516					Turnaround Time Request																				
3:			3:			SITE ADDRESS: 2075 RN Martin St East Point, GA					Standard 5 Business Days																				
SPECIAL INSTRUCTIONS/COMMENTS:		SHIPMENT METHOD				INVOICE TO:					2 Business Day Rush																				
* 24 hr. TAT		OUT / IN				SEND REPORT TO: peter.lorain@arcadis-us.com					Next Business Day Rush																				
* Hold Sample for SVOC Full List, Herbicides, Pesticides		CLIENT / FedEx / UPS / MAIL / COURIER				(IF DIFFERENT FROM ABOVE)					Same Day Rush (auth req.)																				
		GREYHOUND / OTHER				QUOTE #:					Other																				
						PO#:					STATE PROGRAM (if any):																				
											E-mail? Y/N; Fax? Y/N																				
											DATA PACKAGE: I II III IV																				

Page 2 of 19

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES. SAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMPLETION UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water
 PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

Client: Arcadis
Project: Lafarge EP
Lab ID: 1305O40

Case Narrative

pH Analysis by Method 9045D:

Samples for pH analysis by Method 9045D were received and analyzed outside holding time requirement of "immediate or 15 minutes".

Per Peter Cornais on 5/29/2013 via telephone, the samples were analyzed for TCLP VOCs, TCLP RCRA 8 Metals, TCLP PAHs at next day TAT and RCI at 2 day TAT.

Client: Arcadis
 Project Name: Lafarge EP
 Lab ID: 1305O40-001

Client Sample ID: ZONE 3B-SP-1
 Collection Date: 5/29/2013 1:15:00 PM
 Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
VOLATILES, TCLP SW1311/8260B		(SW1311)						
1,1-Dichloroethene	BRL	0.10		mg/L	176778	20	05/30/2013 11:05	YT
1,2-Dichloroethane	BRL	0.10		mg/L	176778	20	05/30/2013 11:05	YT
2-Butanone	BRL	0.20		mg/L	176778	20	05/30/2013 11:05	YT
Benzene	BRL	0.10		mg/L	176778	20	05/30/2013 11:05	YT
Carbon tetrachloride	BRL	0.10		mg/L	176778	20	05/30/2013 11:05	YT
Chlorobenzene	BRL	0.10		mg/L	176778	20	05/30/2013 11:05	YT
Chloroform	BRL	0.10		mg/L	176778	20	05/30/2013 11:05	YT
Tetrachloroethene	BRL	0.10		mg/L	176778	20	05/30/2013 11:05	YT
Trichloroethene	BRL	0.10		mg/L	176778	20	05/30/2013 11:05	YT
Vinyl chloride	BRL	0.040		mg/L	176778	20	05/30/2013 11:05	YT
Surr: 4-Bromofluorobenzene	94.2	65-129		%REC	176778	20	05/30/2013 11:05	YT
Surr: Dibromofluoromethane	92.2	72.3-129		%REC	176778	20	05/30/2013 11:05	YT
Surr: Toluene-d8	97.6	74.2-118		%REC	176778	20	05/30/2013 11:05	YT
Sulfide, Reactive SW7.3.4.2		(SW7.3.4.2)						
Sulfide, Reactive	BRL	100		mg/Kg	176870	1	05/31/2013 10:00	CG
POLYAROMATIC HYDROCARBONS SW8270D		(SW3535A)						
Naphthalene	BRL	100		ug/L	176763	1	05/30/2013 16:32	EI
Acenaphthylene	BRL	100		ug/L	176763	1	05/30/2013 16:32	EI
1-Methylnaphthalene	BRL	100		ug/L	176763	1	05/30/2013 16:32	EI
2-Methylnaphthalene	BRL	100		ug/L	176763	1	05/30/2013 16:32	EI
Acenaphthene	BRL	100		ug/L	176763	1	05/30/2013 16:32	EI
Fluorene	BRL	100		ug/L	176763	1	05/30/2013 16:32	EI
Phenanthrene	BRL	100		ug/L	176763	1	05/30/2013 16:32	EI
Anthracene	BRL	100		ug/L	176763	1	05/30/2013 16:32	EI
Fluoranthene	BRL	100		ug/L	176763	1	05/30/2013 16:32	EI
Pyrene	BRL	100		ug/L	176763	1	05/30/2013 16:32	EI
Benz(a)anthracene	BRL	100		ug/L	176763	1	05/30/2013 16:32	EI
Chrysene	BRL	100		ug/L	176763	1	05/30/2013 16:32	EI
Benzo(b)fluoranthene	BRL	100		ug/L	176763	1	05/30/2013 16:32	EI
Benzo(k)fluoranthene	BRL	100		ug/L	176763	1	05/30/2013 16:32	EI
Benzo(a)pyrene	BRL	100		ug/L	176763	1	05/30/2013 16:32	EI
Dibenz(a,h)anthracene	BRL	100		ug/L	176763	1	05/30/2013 16:32	EI
Benzo(g,h,i)perylene	BRL	100		ug/L	176763	1	05/30/2013 16:32	EI
Indeno(1,2,3-cd)pyrene	BRL	100		ug/L	176763	1	05/30/2013 16:32	EI
Surr: Nitrobenzene-d5	89.3	35-118		%REC	176763	1	05/30/2013 16:32	EI
Surr: 2-Fluorobiphenyl	83.4	40.6-116		%REC	176763	1	05/30/2013 16:32	EI
Surr: 4-Terphenyl-d14	93.7	51.8-124		%REC	176763	1	05/30/2013 16:32	EI
MERCURY, TCLP SW1311/7470A		(SW7470A)						

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: ZONE 3B-SP-1
Project Name: Lafarge EP	Collection Date: 5/29/2013 1:15:00 PM
Lab ID: 1305O40-001	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
MERCURY, TCLP SW1311/7470A					(SW7470A)			
Mercury	BRL	0.00400		mg/L	176775	1	05/30/2013 16:45	JY
Laboratory Hydrogen Ion (pH) SW9045D					(SW9045D)			
pH	6.89	0.01	H	pH Units	176819	1	05/29/2013 17:05	DM
Ignitability SW1010A								
Ignitability	180	0	>	°F	R245019	1	05/30/2013 11:00	LW
ICP METALS, TCLP SW1311/6010C					(SW3010A)			
Arsenic	BRL	0.250		mg/L	176803	1	05/30/2013 15:15	MR
Barium	0.681	0.500		mg/L	176803	1	05/30/2013 15:15	MR
Cadmium	BRL	0.0250		mg/L	176803	1	05/30/2013 15:15	MR
Chromium	BRL	0.0500		mg/L	176803	1	05/30/2013 15:15	MR
Lead	0.682	0.0500		mg/L	176803	1	05/30/2013 15:15	MR
Selenium	BRL	0.100		mg/L	176803	1	05/30/2013 15:15	MR
Silver	BRL	0.0250		mg/L	176803	1	05/30/2013 15:15	MR
Cyanide, Reactive SW7.3.3.2					(SW7.3.3.2)			
Cyanide, Reactive	BRL	1.00		mg/Kg	176848	1	05/31/2013 11:15	CG

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Arcadis

Work Order Number 1305048

Checklist completed by [Signature] Date 5/22/13

Carrier name: FedEx UPS Courier Client US Mail Other

Shipping container/cooler in good condition? Yes No Not Present

Custody seals intact on shipping container/cooler? Yes No Not Present

Custody seals intact on sample bottles? Yes No Not Present

Container/Temp Blank temperature in compliance? (4°C±2)* Yes No

Cooler #1 350 Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present? Yes No

Chain of custody signed when relinquished and received? Yes No

Chain of custody agrees with sample labels? Yes No

Samples in proper container/bottle? Yes No

Sample containers intact? Yes No

Sufficient sample volume for indicated test? Yes No

All samples received within holding time? Yes No

Was TAT marked on the COC? Yes No

Proceed with Standard TAT as per project history? Yes No Not Applicable

Water - VOA vials have zero headspace? No VOA vials submitted Yes No

Water - pH acceptable upon receipt? Yes No Not Applicable

Adjusted? _____ Checked by _____
Sample Condition: Good Other(Explain) _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes No

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

Client: Arcadis
 Project Name: Lafarge EP
 Workorder: 1305O40

ANALYTICAL QC SUMMARY REPORT

BatchID: 176763

Sample ID: MB-176763	Client ID:	Units: ug/L	Prep Date: 05/30/2013	Run No: 244968							
SampleType: MBLK	TestCode: POLYAROMATIC HYDROCARBONS SW8270D	BatchID: 176763	Analysis Date: 05/30/2013	Seq No: 5131231							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1-Methylnaphthalene	BRL	100									
2-Methylnaphthalene	BRL	100									
Acenaphthene	BRL	100									
Acenaphthylene	BRL	100									
Anthracene	BRL	100									
Benz(a)anthracene	BRL	100									
Benzo(a)pyrene	BRL	100									
Benzo(b)fluoranthene	BRL	100									
Benzo(g,h,i)perylene	BRL	100									
Benzo(k)fluoranthene	BRL	100									
Chrysene	BRL	100									
Dibenz(a,h)anthracene	BRL	100									
Fluoranthene	BRL	100									
Fluorene	BRL	100									
Indeno(1,2,3-cd)pyrene	BRL	100									
Naphthalene	BRL	100									
Phenanthrene	BRL	100									
Pyrene	BRL	100									
Surr: 2-Fluorobiphenyl	440.3	0	500.0		88.1	40.6	116				
Surr: 4-Terphenyl-d14	523.0	0	500.0		105	51.8	124				
Surr: Nitrobenzene-d5	466.0	0	500.0		93.2	35	118				

Sample ID: LCS-176763	Client ID:	Units: ug/L	Prep Date: 05/30/2013	Run No: 244968							
SampleType: LCS	TestCode: POLYAROMATIC HYDROCARBONS SW8270D	BatchID: 176763	Analysis Date: 05/30/2013	Seq No: 5131232							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1-Methylnaphthalene	423.9	100	500.0		84.8	52.5	120				
---------------------	-------	-----	-------	--	------	------	-----	--	--	--	--

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
 Project Name: Lafarge EP
 Workorder: 1305O40

ANALYTICAL QC SUMMARY REPORT

BatchID: 176763

Sample ID: LCS-176763	Client ID:	Units: ug/L	Prep Date: 05/30/2013	Run No: 244968							
SampleType: LCS	TestCode: POLYAROMATIC HYDROCARBONS SW8270D	BatchID: 176763	Analysis Date: 05/30/2013	Seq No: 5131232							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2-Methylnaphthalene	390.7	100	500.0		78.1	50.9	120				
Acenaphthene	453.8	100	500.0		90.8	49	120				
Acenaphthylene	422.4	100	500.0		84.5	58.5	123				
Anthracene	464.5	100	500.0		92.9	55.6	120				
Benz(a)anthracene	486.6	100	500.0		97.3	52.6	120				
Benzo(a)pyrene	426.4	100	500.0		85.3	53	120				
Benzo(b)fluoranthene	477.3	100	500.0		95.5	49.5	120				
Benzo(g,h,i)perylene	511.0	100	500.0		102	50	120				
Benzo(k)fluoranthene	462.3	100	500.0		92.5	50	120				
Chrysene	448.2	100	500.0		89.6	51.3	120				
Dibenz(a,h)anthracene	527.5	100	500.0		106	50.1	120				
Fluoranthene	444.4	100	500.0		88.9	59.5	124				
Fluorene	478.3	100	500.0		95.7	51.1	120				
Indeno(1,2,3-cd)pyrene	523.4	100	500.0		105	51.1	120				
Naphthalene	397.3	100	500.0		79.5	50.8	120				
Phenanthrene	450.5	100	500.0		90.1	54.4	120				
Pyrene	450.2	100	500.0		90.0	52.7	120				
Surr: 2-Fluorobiphenyl	421.1	0	500.0		84.2	40.6	116				
Surr: 4-Terphenyl-d14	493.2	0	500.0		98.6	51.8	124				
Surr: Nitrobenzene-d5	449.5	0	500.0		89.9	35	118				

Sample ID: 1305O40-001BMS	Client ID: ZONE 3B-SP-1	Units: ug/L	Prep Date: 05/30/2013	Run No: 244968							
SampleType: MS	TestCode: POLYAROMATIC HYDROCARBONS SW8270D	BatchID: 176763	Analysis Date: 05/30/2013	Seq No: 5131711							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1-Methylnaphthalene	402.9	100	500.0		80.6	41.7	120				
2-Methylnaphthalene	363.0	100	500.0		72.6	40.2	120				
Acenaphthene	397.4	100	500.0		79.5	40.6	120				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
 Project Name: Lafarge EP
 Workorder: 1305O40

ANALYTICAL QC SUMMARY REPORT

BatchID: 176763

Sample ID: 1305O40-001BMS	Client ID: ZONE 3B-SP-1	Units: ug/L	Prep Date: 05/30/2013	Run No: 244968							
SampleType: MS	TestCode: POLYAROMATIC HYDROCARBONS SW8270D	BatchID: 176763	Analysis Date: 05/30/2013	Seq No: 5131711							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Acenaphthylene	374.3	100	500.0		74.9	43.3	123				
Anthracene	421.9	100	500.0		84.4	49.3	120				
Benz(a)anthracene	433.9	100	500.0		86.8	50.4	120				
Benzo(a)pyrene	389.9	100	500.0		78.0	49.4	120				
Benzo(b)fluoranthene	429.2	100	500.0		85.8	47.7	120				
Benzo(g,h,i)perylene	468.6	100	500.0		93.7	45.4	120				
Benzo(k)fluoranthene	412.0	100	500.0		82.4	48.4	120				
Chrysene	397.2	100	500.0		79.4	50.9	120				
Dibenz(a,h)anthracene	488.7	100	500.0		97.7	49.3	120				
Fluoranthene	407.0	100	500.0		81.4	51.8	124				
Fluorene	424.4	100	500.0		84.9	44.4	120				
Indeno(1,2,3-cd)pyrene	475.2	100	500.0		95.0	50.9	120				
Naphthalene	348.7	100	500.0		69.7	35.7	120				
Phenanthrene	406.9	100	500.0		81.4	48.8	120				
Pyrene	403.2	100	500.0		80.6	50.9	120				
Surr: 2-Fluorobiphenyl	362.0	0	500.0		72.4	40.6	116				
Surr: 4-Terphenyl-d14	437.5	0	500.0		87.5	51.8	124				
Surr: Nitrobenzene-d5	386.3	0	500.0		77.3	35	118				

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
 Project Name: Lafarge EP
 Workorder: 1305O40

ANALYTICAL QC SUMMARY REPORT

BatchID: 176775

Sample ID: MB-176775	Client ID:	Units: mg/L	Prep Date: 05/30/2013	Run No: 244977							
SampleType: MBLK	TestCode: MERCURY, TCLP SW1311/7470A	BatchID: 176775	Analysis Date: 05/30/2013	Seq No: 5131193							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Mercury BRL 0.00400

Sample ID: LCS-176775	Client ID:	Units: mg/L	Prep Date: 05/30/2013	Run No: 244977							
SampleType: LCS	TestCode: MERCURY, TCLP SW1311/7470A	BatchID: 176775	Analysis Date: 05/30/2013	Seq No: 5131194							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Mercury 0.04017 0.00400 0.0400 100 85 115

Sample ID: 1305K91-001BMS	Client ID:	Units: mg/L	Prep Date: 05/30/2013	Run No: 244977							
SampleType: MS	TestCode: MERCURY, TCLP SW1311/7470A	BatchID: 176775	Analysis Date: 05/30/2013	Seq No: 5131203							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Mercury 0.04073 0.00400 0.0400 102 80 120

Sample ID: 1305K91-001BMSD	Client ID:	Units: mg/L	Prep Date: 05/30/2013	Run No: 244977							
SampleType: MSD	TestCode: MERCURY, TCLP SW1311/7470A	BatchID: 176775	Analysis Date: 05/30/2013	Seq No: 5131205							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Mercury 0.04013 0.00400 0.0400 100 80 120 0.04073 1.49 20

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Arcadis
 Project Name: Lafarge EP
 Workorder: 1305O40

ANALYTICAL QC SUMMARY REPORT

BatchID: 176778

Sample ID: MB-176778	Client ID:	Units: mg/L	Prep Date: 05/29/2013	Run No: 244886							
SampleType: MBLK	TestCode: VOLATILES, TCLP SW1311/8260B	BatchID: 176778	Analysis Date: 05/29/2013	Seq No: 5129465							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	BRL	0.10									
1,2-Dichloroethane	BRL	0.10									
2-Butanone	BRL	0.20									
Benzene	BRL	0.10									
Carbon tetrachloride	BRL	0.10									
Chlorobenzene	BRL	0.10									
Chloroform	BRL	0.10									
Tetrachloroethene	BRL	0.10									
Trichloroethene	BRL	0.10									
Vinyl chloride	BRL	0.040									
Surr: 4-Bromofluorobenzene	0.9312	0	1.000		93.1	65	129				
Surr: Dibromofluoromethane	0.9142	0	1.000		91.4	72.3	129				
Surr: Toluene-d8	0.9688	0	1.000		96.9	74.2	118				

Sample ID: LCS-176778	Client ID:	Units: mg/L	Prep Date: 05/29/2013	Run No: 244886							
SampleType: LCS	TestCode: VOLATILES, TCLP SW1311/8260B	BatchID: 176778	Analysis Date: 05/29/2013	Seq No: 5129467							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	1.037	0.10	1.000		104	53	139				
1,2-Dichloroethane	1.027	0.10	1.000		103	62	143				
2-Butanone	1.767	0.20	2.000		88.4	42	146				
Benzene	1.015	0.10	1.000		101	70.6	128				
Carbon tetrachloride	0.9838	0.10	1.000		98.4	56	146				
Chlorobenzene	1.066	0.10	1.000		107	73	121				
Chloroform	0.9516	0.10	1.000		95.2	64.6	129				
Tetrachloroethene	1.106	0.10	1.000		111	70.5	131				
Trichloroethene	1.063	0.10	1.000		106	69.3	129				
Vinyl chloride	1.050	0.040	1.000		105	46.1	139				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
Project Name: Lafarge EP
Workorder: 1305O40

ANALYTICAL QC SUMMARY REPORT

BatchID: 176778

Sample ID: LCS-176778	Client ID:	Units: mg/L	Prep Date: 05/29/2013	Run No: 244886							
SampleType: LCS	TestCode: VOLATILES, TCLP SW1311/8260B	BatchID: 176778	Analysis Date: 05/29/2013	Seq No: 5129467							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Surr: 4-Bromofluorobenzene	1.001	0	1.000		100	65	129				
Surr: Dibromofluoromethane	1.002	0	1.000		100	72.3	129				
Surr: Toluene-d8	0.9646	0	1.000		96.5	74.2	118				

Sample ID: 1305K91-001AMS	Client ID:	Units: mg/L	Prep Date: 05/29/2013	Run No: 244886							
SampleType: MS	TestCode: VOLATILES, TCLP SW1311/8260B	BatchID: 176778	Analysis Date: 05/29/2013	Seq No: 5129478							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	1.089	0.10	1.000		109	52.3	155				
1,2-Dichloroethane	0.9938	0.10	1.000		99.4	58.3	144				
2-Butanone	1.714	0.20	2.000		85.7	39.1	160				
Benzene	1.055	0.10	1.000		106	70	139				
Carbon tetrachloride	0.9494	0.10	1.000		94.9	53.3	147				
Chlorobenzene	1.063	0.10	1.000		106	72.2	132				
Chloroform	0.9714	0.10	1.000		97.1	63.7	135				
Tetrachloroethene	1.125	0.10	1.000		113	70	148				
Trichloroethene	1.107	0.10	1.000		111	67.8	149				
Vinyl chloride	1.184	0.040	1.000		118	46.1	152				
Surr: 4-Bromofluorobenzene	1.024	0	1.000		102	65	129				
Surr: Dibromofluoromethane	0.9386	0	1.000		93.9	72.3	129				
Surr: Toluene-d8	0.9772	0	1.000		97.7	74.2	118				

Sample ID: 1305K91-001ADUP	Client ID:	Units: mg/L	Prep Date: 05/29/2013	Run No: 244886							
SampleType: DUP	TestCode: VOLATILES, TCLP SW1311/8260B	BatchID: 176778	Analysis Date: 05/29/2013	Seq No: 5129476							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	BRL	0.10						0	0	30	
1,2-Dichloroethane	BRL	0.10						0	0	30	

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Arcadis
 Project Name: Lafarge EP
 Workorder: 1305O40

ANALYTICAL QC SUMMARY REPORT

BatchID: 176778

Sample ID: 1305K91-001ADUP	Client ID:	Units: mg/L	Prep Date: 05/29/2013	Run No: 244886							
SampleType: DUP	TestCode: VOLATILES, TCLP SW1311/8260B	BatchID: 176778	Analysis Date: 05/29/2013	Seq No: 5129476							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2-Butanone	BRL	0.20						0	0	30	
Benzene	BRL	0.10						0	0	30	
Carbon tetrachloride	BRL	0.10						0	0	30	
Chlorobenzene	BRL	0.10						0	0	30	
Chloroform	BRL	0.10						0	0	30	
Tetrachloroethene	BRL	0.10						0	0	30	
Trichloroethene	BRL	0.10						0	0	30	
Vinyl chloride	BRL	0.040						0	0	30	
Surr: 4-Bromofluorobenzene	0.9344	0	1.000		93.4	65	129	0.9040	0	0	
Surr: Dibromofluoromethane	1.009	0	1.000		101	72.3	129	0.9754	0	0	
Surr: Toluene-d8	1.001	0	1.000		100	74.2	118	0.9862	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
 Project Name: Lafarge EP
 Workorder: 1305O40

ANALYTICAL QC SUMMARY REPORT

BatchID: 176803

Sample ID: MB-176803	Client ID:	Units: mg/L	Prep Date: 05/30/2013	Run No: 245008							
SampleType: MBLK	TestCode: ICP METALS, TCLP SW1311/6010C	BatchID: 176803	Analysis Date: 05/30/2013	Seq No: 5130837							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	BRL	0.250									
Barium	BRL	0.500									
Cadmium	BRL	0.0250									
Chromium	BRL	0.0500									
Lead	BRL	0.0500									
Selenium	BRL	0.100									
Silver	BRL	0.0250									

Sample ID: LCS-176803	Client ID:	Units: mg/L	Prep Date: 05/30/2013	Run No: 245008							
SampleType: LCS	TestCode: ICP METALS, TCLP SW1311/6010C	BatchID: 176803	Analysis Date: 05/30/2013	Seq No: 5130836							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	5.046	0.250	5.000		101	85	115				
Barium	4.765	0.500	5.000	0.009865	95.1	80	120				
Cadmium	4.909	0.0250	5.000		98.2	85	115				
Chromium	4.908	0.0500	5.000		98.2	85	115				
Lead	4.721	0.0500	5.000		94.4	85	115				
Selenium	5.066	0.100	5.000		101	85	115				
Silver	0.4928	0.0250	0.5000		98.6	85	115				

Sample ID: 1305O40-001BMS	Client ID: ZONE 3B-SP-1	Units: mg/L	Prep Date: 05/30/2013	Run No: 245008							
SampleType: MS	TestCode: ICP METALS, TCLP SW1311/6010C	BatchID: 176803	Analysis Date: 05/30/2013	Seq No: 5130841							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	5.060	0.250	5.000		101	50	150				
Barium	5.444	0.500	5.000	0.6809	95.3	50	150				
Cadmium	4.920	0.0250	5.000		98.4	50	150				
Chromium	4.918	0.0500	5.000		98.4	50	150				

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Arcadis
 Project Name: Lafarge EP
 Workorder: 1305O40

ANALYTICAL QC SUMMARY REPORT

BatchID: 176803

Sample ID: 1305O40-001BMS	Client ID: ZONE 3B-SP-1	Units: mg/L	Prep Date: 05/30/2013	Run No: 245008							
SampleType: MS	TestCode: ICP METALS, TCLP SW1311/6010C	BatchID: 176803	Analysis Date: 05/30/2013	Seq No: 5130841							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Lead	5.443	0.0500	5.000	0.6821	95.2	50	150				
Selenium	5.088	0.100	5.000		102	50	150				
Silver	0.4929	0.0250	0.5000		98.6	50	150				

Sample ID: 1305O40-001BMSD	Client ID: ZONE 3B-SP-1	Units: mg/L	Prep Date: 05/30/2013	Run No: 245008							
SampleType: MSD	TestCode: ICP METALS, TCLP SW1311/6010C	BatchID: 176803	Analysis Date: 05/30/2013	Seq No: 5130843							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	5.062	0.250	5.000		101	50	150	5.060	0.049	30	
Barium	5.451	0.500	5.000	0.6809	95.4	50	150	5.444	0.133	30	
Cadmium	4.914	0.0250	5.000		98.3	50	150	4.920	0.134	30	
Chromium	4.914	0.0500	5.000		98.3	50	150	4.918	0.076	30	
Lead	5.447	0.0500	5.000	0.6821	95.3	50	150	5.443	0.068	30	
Selenium	5.085	0.100	5.000		102	50	150	5.088	0.062	30	
Silver	0.4920	0.0250	0.5000		98.4	50	150	0.4929	0.173	30	

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
BRL	Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S Spike Recovery outside limits due to matrix	

Client: Arcadis
 Project Name: Lafarge EP
 Workorder: 1305O40

ANALYTICAL QC SUMMARY REPORT

BatchID: 176819

Sample ID: LCS-176819	Client ID:	Units: pH Units	Prep Date: 05/29/2013	Run No: 245014							
SampleType: LCS	TestCode: Laboratory Hydrogen Ion (pH) SW9045D	BatchID: 176819	Analysis Date: 05/29/2013	Seq No: 5130959							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

pH 7.050 0.01 7.000 101 90 110

Sample ID: 1305M08-001ADUP	Client ID:	Units: pH Units	Prep Date: 05/29/2013	Run No: 245014							
SampleType: DUP	TestCode: Laboratory Hydrogen Ion (pH) SW9045D	BatchID: 176819	Analysis Date: 05/29/2013	Seq No: 5130971							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

pH 9.240 0.01 9.240 0 10 H

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	

Client: Arcadis
 Project Name: Lafarge EP
 Workorder: 1305O40

ANALYTICAL QC SUMMARY REPORT

BatchID: 176848

Sample ID: MB-176848	Client ID:	Units: mg/Kg	Prep Date: 05/31/2013	Run No: 245047							
SampleType: MBLK	TestCode: Cyanide, Reactive SW7.3.3.2	BatchID: 176848	Analysis Date: 05/31/2013	Seq No: 5132034							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Cyanide, Reactive

BRL 1.00

Sample ID: LCS-176848	Client ID:	Units: mg/Kg	Prep Date: 05/31/2013	Run No: 245047							
SampleType: LCS	TestCode: Cyanide, Reactive SW7.3.3.2	BatchID: 176848	Analysis Date: 05/31/2013	Seq No: 5132035							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Cyanide, Reactive

6.495 1.00 12.50 52.0 50 150

Sample ID: 1305O40-001CMS	Client ID: ZONE 3B-SP-1	Units: mg/Kg	Prep Date: 05/31/2013	Run No: 245047							
SampleType: MS	TestCode: Cyanide, Reactive SW7.3.3.2	BatchID: 176848	Analysis Date: 05/31/2013	Seq No: 5132043							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Cyanide, Reactive

6.220 1.00 12.50 49.8 19.9 120

Sample ID: 1305O40-001CMSD	Client ID: ZONE 3B-SP-1	Units: mg/Kg	Prep Date: 05/31/2013	Run No: 245047							
SampleType: MSD	TestCode: Cyanide, Reactive SW7.3.3.2	BatchID: 176848	Analysis Date: 05/31/2013	Seq No: 5132046							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Cyanide, Reactive

5.475 1.00 12.50 43.8 19.9 120 6.220 12.7 30

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	

Client: Arcadis
 Project Name: Lafarge EP
 Workorder: 1305O40

ANALYTICAL QC SUMMARY REPORT

BatchID: 176870

Sample ID: MB-176870	Client ID:	Units: mg/Kg	Prep Date: 05/31/2013	Run No: 245103							
SampleType: MBLK	TestCode: Sulfide, Reactive SW7.3.4.2	BatchID: 176870	Analysis Date: 05/31/2013	Seq No: 5133446							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Sulfide, Reactive

BRL 100

Sample ID: LCS-176870	Client ID:	Units: mg/Kg	Prep Date: 05/31/2013	Run No: 245103							
SampleType: LCS	TestCode: Sulfide, Reactive SW7.3.4.2	BatchID: 176870	Analysis Date: 05/31/2013	Seq No: 5133447							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Sulfide, Reactive

1080 100 1300 83.1 30 120

Sample ID: 1305O40-001CMS	Client ID: ZONE 3B-SP-1	Units: mg/Kg	Prep Date: 05/31/2013	Run No: 245103							
SampleType: MS	TestCode: Sulfide, Reactive SW7.3.4.2	BatchID: 176870	Analysis Date: 05/31/2013	Seq No: 5133454							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Sulfide, Reactive

408.0 100 520.0 78.5 27.8 117

Sample ID: 1305O40-001CMSD	Client ID: ZONE 3B-SP-1	Units: mg/Kg	Prep Date: 05/31/2013	Run No: 245103							
SampleType: MSD	TestCode: Sulfide, Reactive SW7.3.4.2	BatchID: 176870	Analysis Date: 05/31/2013	Seq No: 5133455							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Sulfide, Reactive

400.0 100 520.0 76.9 27.8 117 408.0 1.98 27

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	

Client: Arcadis
 Project Name: Lafarge EP
 Workorder: 1305O40

ANALYTICAL QC SUMMARY REPORT

BatchID: R245019

Sample ID: LCS-R245019	Client ID:	Units: °F	Prep Date:	Run No: 245019							
SampleType: LCS	TestCode: Ignitability SW1010A	BatchID: R245019	Analysis Date: 05/30/2013	Seq No: 5131218							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ignitability 81.00 0 80.00 101 93.8 106.2

Sample ID: 1305O40-001DDUP	Client ID: ZONE 3B-SP-1	Units: °F	Prep Date:	Run No: 245019							
SampleType: DUP	TestCode: Ignitability SW1010A	BatchID: R245019	Analysis Date: 05/30/2013	Seq No: 5131220							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ignitability 180.0 0 0 0 20 >

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	



July 03, 2013

Peter Cornais
Arcadis
2081 Vista Parkway, Suite 200
West Palm Beach FL 33411

TEL: (850) 445-0829
FAX:

RE: Lafarge East Point

Dear Peter Cornais:

Order No: 1306C23

Analytical Environmental Services, Inc. received 1 samples on 6/13/2013 3:20:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/13-06/30/14.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/15.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Chantelle Kanhai
Project Manager



COMPANY: Arcadis		ADDRESS: 1600 Cobb Place Blvd Bldg 500A			ANALYSIS REQUESTED				Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.			
PHONE: 404-952-1602		FAX: 404-952-1602			<div style="display: flex; flex-direction: column; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TCLP VOCs fruit</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Reactivity</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Ignitability</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TCLP SVOC VOCs PAH</div> </div>							
SAMPLED BY: K. Makney, M. Myes		SIGNATURE: <i>[Signature]</i>							PRESERVATION (See codes)			
#	SAMPLE ID	DATE	TIME	Grab	Composite	Matrix (See codes)						
1	zone 3c-sp1	6/13/13	1135	X		SO	H	H	H	H	Hold Sample for SVOC list Herbicides, Pesticides	5
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME	PROJECT INFORMATION	RECEIPT
1: <i>[Signature]</i>	6/13/13 1520	1: <i>[Signature]</i>	6/13/13 3:00	PROJECT NAME: Laforge East Point	Total # of Containers 5
2:		2:		PROJECT #: HT 212 516	<input type="checkbox"/> Turnaround Time Request <input type="checkbox"/> Standard 5 Business Days <input type="checkbox"/> 2 Business Day Rush <input type="checkbox"/> Next Business Day Rush <input type="checkbox"/> Same Day Rush (auth req.) <input type="checkbox"/> Other _____
3:		3:		SITE ADDRESS: 2675 N. Martin St.	
SPECIAL INSTRUCTIONS/COMMENTS: 24 hr TAT				SEND REPORT TO: order.cerna@arcadis-us.com	
SHIPMENT METHOD				INVOICE TO:	STATE PROGRAM (if any): _____
OUT VIA: IN <input checked="" type="checkbox"/> CLIENT FedEx <input type="checkbox"/> UPS <input type="checkbox"/> MAIL <input type="checkbox"/> COURIER <input type="checkbox"/> GREYHOUND <input type="checkbox"/> OTHER _____				(IF DIFFERENT FROM ABOVE)	E-mail? Y/N; Fax? Y/N
				QUOTE #: _____	DATA PACKAGE: I II III IV

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES.
 SAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMPLETION UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water
 PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client

Client: Arcadis
Project: Lafarge East Point
Lab ID: 1306C23

Case Narrative

pH Analysis by Method 9045D:

Samples for pH analysis by Method 9045D were received and analyzed outside holding time requirement of "immediate or 15 minutes".

Analytical Environmental Services, Inc

Date: 3-Jul-13

Client: Arcadis	Client Sample ID: ZONE 3C-SP1
Project Name: Lafarge East Point	Collection Date: 6/13/2013 11:35:00 AM
Lab ID: 1306C23-001	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
VOLATILES, TCLP SW1311/8260B		(SW1311)						
1,1-Dichloroethene	BRL	0.10		mg/L	177505	20	06/15/2013 16:58	NP
1,2-Dichloroethane	BRL	0.10		mg/L	177505	20	06/15/2013 16:58	NP
2-Butanone	BRL	0.20		mg/L	177505	20	06/15/2013 16:58	NP
Benzene	BRL	0.10		mg/L	177505	20	06/15/2013 16:58	NP
Carbon tetrachloride	BRL	0.10		mg/L	177505	20	06/15/2013 16:58	NP
Chlorobenzene	BRL	0.10		mg/L	177505	20	06/15/2013 16:58	NP
Chloroform	BRL	0.10		mg/L	177505	20	06/15/2013 16:58	NP
Tetrachloroethene	BRL	0.10		mg/L	177505	20	06/15/2013 16:58	NP
Trichloroethene	BRL	0.10		mg/L	177505	20	06/15/2013 16:58	NP
Vinyl chloride	BRL	0.040		mg/L	177505	20	06/15/2013 16:58	NP
Surr: 4-Bromofluorobenzene	87.1	65-129		%REC	177505	20	06/15/2013 16:58	NP
Surr: Dibromofluoromethane	108	72.3-129		%REC	177505	20	06/15/2013 16:58	NP
Surr: Toluene-d8	94.5	74.2-118		%REC	177505	20	06/15/2013 16:58	NP
Sulfide, Reactive SW7.3.4.2		(SW7.3.4.2)						
Sulfide, Reactive	BRL	100		mg/Kg	177550	1	06/17/2013 17:00	AS
POLYAROMATIC HYDROCARBONS SW8270D		(SW3535A)						
Naphthalene	BRL	100		ug/L	177471	1	06/17/2013 15:04	EI
Acenaphthylene	BRL	100		ug/L	177471	1	06/17/2013 15:04	EI
1-Methylnaphthalene	BRL	100		ug/L	177471	1	06/17/2013 15:04	EI
2-Methylnaphthalene	BRL	100		ug/L	177471	1	06/17/2013 15:04	EI
Acenaphthene	BRL	100		ug/L	177471	1	06/17/2013 15:04	EI
Fluorene	BRL	100		ug/L	177471	1	06/17/2013 15:04	EI
Phenanthrene	BRL	100		ug/L	177471	1	06/17/2013 15:04	EI
Anthracene	BRL	100		ug/L	177471	1	06/17/2013 15:04	EI
Fluoranthene	BRL	100		ug/L	177471	1	06/17/2013 15:04	EI
Pyrene	BRL	100		ug/L	177471	1	06/17/2013 15:04	EI
Benz(a)anthracene	BRL	100		ug/L	177471	1	06/17/2013 15:04	EI
Chrysene	BRL	100		ug/L	177471	1	06/17/2013 15:04	EI
Benzo(b)fluoranthene	BRL	100		ug/L	177471	1	06/17/2013 15:04	EI
Benzo(k)fluoranthene	BRL	100		ug/L	177471	1	06/17/2013 15:04	EI
Benzo(a)pyrene	BRL	100		ug/L	177471	1	06/17/2013 15:04	EI
Dibenz(a,h)anthracene	BRL	100		ug/L	177471	1	06/17/2013 15:04	EI
Benzo(g,h,i)perylene	BRL	100		ug/L	177471	1	06/17/2013 15:04	EI
Indeno(1,2,3-cd)pyrene	BRL	100		ug/L	177471	1	06/17/2013 15:04	EI
Surr: Nitrobenzene-d5	102	35-118		%REC	177471	1	06/17/2013 15:04	EI
Surr: 2-Fluorobiphenyl	92	40.6-116		%REC	177471	1	06/17/2013 15:04	EI
Surr: 4-Terphenyl-d14	116	51.8-124		%REC	177471	1	06/17/2013 15:04	EI
MERCURY, TCLP SW1311/7470A		(SW7470A)						

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: ZONE 3C-SP1
Project Name: Lafarge East Point	Collection Date: 6/13/2013 11:35:00 AM
Lab ID: 1306C23-001	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
MERCURY, TCLP SW1311/7470A				(SW7470A)				
Mercury	BRL	0.00400		mg/L	177489	1	06/17/2013 16:16	JY
Laboratory Hydrogen Ion (pH) SW9045D				(SW9045D)				
pH	7.83	0.01	H	pH Units	177540	1	06/17/2013 11:35	DM
Ignitability SW1010A								
Ignitability	180	0	>	°F	R246186	1	06/17/2013 15:00	LW
ICP METALS, TCLP SW1311/6010C				(SW3010A)				
Arsenic	BRL	0.250		mg/L	177452	1	06/17/2013 12:51	JY
Barium	1.78	0.500		mg/L	177452	1	06/17/2013 12:51	JY
Cadmium	0.0401	0.0250		mg/L	177452	1	06/17/2013 12:51	JY
Chromium	BRL	0.0500		mg/L	177452	1	06/17/2013 12:51	JY
Lead	47.6	0.0500	*	mg/L	177452	1	06/17/2013 12:51	JY
Selenium	BRL	0.100		mg/L	177452	1	06/17/2013 12:51	JY
Silver	BRL	0.0250		mg/L	177452	1	06/17/2013 12:51	JY
Cyanide, Reactive SW7.3.3.2				(SW7.3.3.2)				
Cyanide, Reactive	BRL	0.980		mg/Kg	177555	1	06/17/2013 18:00	CG

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Arcadis

Work Order Number 1306023

Checklist completed by [Signature] Date 6/13/12

Carrier name: FedEx UPS Courier Client US Mail Other

Shipping container/cooler in good condition? Yes No Not Present

Custody seals intact on shipping container/cooler? Yes No Not Present

Custody seals intact on sample bottles? Yes No Not Present

Container/Temp Blank temperature in compliance? (4°C±2)* Yes No

Cooler #1 3.5 Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler #5 _____ Cooler #6 _____

Chain of custody present? Yes No

Chain of custody signed when relinquished and received? Yes No

Chain of custody agrees with sample labels? Yes No

Samples in proper container/bottle? Yes No

Sample containers intact? Yes No

Sufficient sample volume for indicated test? Yes No

All samples received within holding time? Yes No

Was TAT marked on the COC? Yes No

Proceed with Standard TAT as per project history? Yes No Not Applicable

Water - VOA vials have zero headspace? No VOA vials submitted Yes No

Water - pH acceptable upon receipt? Yes No Not Applicable

Adjusted? _____ Checked by _____

Sample Condition: Good Other(Explain) _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes No

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

Client: Arcadis
 Project: Lafarge East Point
 Lab Order: 1306C23

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1306C23-001A	ZONE 3C-SP1	6/13/2013 11:35:00AM	Soil	VOLATILES, TCLP Leached	06/13/2013	06/15/2013	06/15/2013
1306C23-001B	ZONE 3C-SP1	6/13/2013 11:35:00AM	Soil	IGNITABILITY			06/17/2013
1306C23-001B	ZONE 3C-SP1	6/13/2013 11:35:00AM	Soil	Cyanide, Reactive		06/17/2013	06/17/2013
1306C23-001B	ZONE 3C-SP1	6/13/2013 11:35:00AM	Soil	Sulfide, Reactive		06/17/2013	06/17/2013
1306C23-001B	ZONE 3C-SP1	6/13/2013 11:35:00AM	Soil	Laboratory Hydrogen Ion (pH)		06/17/2013	06/17/2013
1306C23-001C	ZONE 3C-SP1	6/13/2013 11:35:00AM	Soil	MERCURY, TCLP Leached	06/17/2013	06/17/2013	06/17/2013
1306C23-001C	ZONE 3C-SP1	6/13/2013 11:35:00AM	Soil	ICP METALS, TCLP Leached	06/17/2013	06/17/2013	06/17/2013
1306C23-001C	ZONE 3C-SP1	6/13/2013 11:35:00AM	Soil	POLYNUCLEAR AROMATIC HYDROCARBONS		06/17/2013	06/17/2013

Client: Arcadis
 Project Name: Lafarge East Point
 Workorder: 1306C23

ANALYTICAL QC SUMMARY REPORT

BatchID: 177452

Sample ID: MB-177452	Client ID:	Units: mg/L	Prep Date: 06/17/2013	Run No: 246143							
SampleType: MBLK	TestCode: ICP METALS, TCLP SW1311/6010C	BatchID: 177452	Analysis Date: 06/17/2013	Seq No: 5156374							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	BRL	0.250									
Barium	BRL	0.500									
Cadmium	BRL	0.0250									
Chromium	BRL	0.0500									
Lead	BRL	0.0500									
Selenium	BRL	0.100									
Silver	BRL	0.0250									

Sample ID: LCS-177452	Client ID:	Units: mg/L	Prep Date: 06/17/2013	Run No: 246143							
SampleType: LCS	TestCode: ICP METALS, TCLP SW1311/6010C	BatchID: 177452	Analysis Date: 06/17/2013	Seq No: 5156373							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	5.184	0.250	5.000		104	85	115				
Barium	4.889	0.500	5.000	0.08800	96.0	80	120				
Cadmium	4.993	0.0250	5.000		99.9	85	115				
Chromium	4.974	0.0500	5.000		99.5	85	115				
Lead	4.888	0.0500	5.000		97.8	85	115				
Selenium	5.221	0.100	5.000		104	85	115				
Silver	0.4834	0.0250	0.5000		96.7	85	115				

Sample ID: 1306A81-001AMS	Client ID:	Units: mg/L	Prep Date: 06/17/2013	Run No: 246143							
SampleType: MS	TestCode: ICP METALS, TCLP SW1311/6010C	BatchID: 177452	Analysis Date: 06/17/2013	Seq No: 5156381							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	5.233	0.250	5.000		105	50	150				
Barium	5.175	0.500	5.000	0.1184	101	50	150				
Cadmium	5.288	0.0250	5.000	0.1549	103	50	150				
Chromium	6.390	0.0500	5.000	2.128	85.2	50	150				

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Arcadis
 Project Name: Lafarge East Point
 Workorder: 1306C23

ANALYTICAL QC SUMMARY REPORT

BatchID: 177452

Sample ID: 1306A81-001AMS	Client ID:	Units: mg/L	Prep Date: 06/17/2013	Run No: 246143							
SampleType: MS	TestCode: ICP METALS, TCLP SW1311/6010C	BatchID: 177452	Analysis Date: 06/17/2013	Seq No: 5156381							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Lead	5.218	0.0500	5.000	0.2519	99.3	50	150				
Selenium	5.288	0.100	5.000		106	50	150				
Silver	0.5040	0.0250	0.5000		101	50	150				

Sample ID: 1306A81-001AMSD	Client ID:	Units: mg/L	Prep Date: 06/17/2013	Run No: 246143							
SampleType: MSD	TestCode: ICP METALS, TCLP SW1311/6010C	BatchID: 177452	Analysis Date: 06/17/2013	Seq No: 5156382							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	5.221	0.250	5.000		104	50	150	5.233	0.223	30	
Barium	5.150	0.500	5.000	0.1184	101	50	150	5.175	0.470	30	
Cadmium	5.270	0.0250	5.000	0.1549	102	50	150	5.288	0.335	30	
Chromium	6.399	0.0500	5.000	2.128	85.4	50	150	6.390	0.140	30	
Lead	5.200	0.0500	5.000	0.2519	99.0	50	150	5.218	0.362	30	
Selenium	5.276	0.100	5.000		106	50	150	5.288	0.218	30	
Silver	0.5023	0.0250	0.5000		100	50	150	0.5040	0.348	30	

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Arcadis
Project Name: Lafarge East Point
Workorder: 1306C23

ANALYTICAL QC SUMMARY REPORT

BatchID: 177471

Sample ID: MB-177471	Client ID:	Units: ug/L	Prep Date: 06/17/2013	Run No: 246157							
SampleType: MBLK	TestCode: POLYAROMATIC HYDROCARBONS SW8270D	BatchID: 177471	Analysis Date: 06/17/2013	Seq No: 5156728							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1-Methylnaphthalene	BRL	100									
2-Methylnaphthalene	BRL	100									
Acenaphthene	BRL	100									
Acenaphthylene	BRL	100									
Anthracene	BRL	100									
Benz(a)anthracene	BRL	100									
Benzo(a)pyrene	BRL	100									
Benzo(b)fluoranthene	BRL	100									
Benzo(g,h,i)perylene	BRL	100									
Benzo(k)fluoranthene	BRL	100									
Chrysene	BRL	100									
Dibenz(a,h)anthracene	BRL	100									
Fluoranthene	BRL	100									
Fluorene	BRL	100									
Indeno(1,2,3-cd)pyrene	BRL	100									
Naphthalene	BRL	100									
Phenanthrene	BRL	100									
Pyrene	BRL	100									
Surr: 2-Fluorobiphenyl	476.6	0	500.0		95.3	40.6	116				
Surr: 4-Terphenyl-d14	548.5	0	500.0		110	51.8	124				
Surr: Nitrobenzene-d5	481.7	0	500.0		96.3	35	118				

Sample ID: LCS-177471	Client ID:	Units: ug/L	Prep Date: 06/17/2013	Run No: 246157							
SampleType: LCS	TestCode: POLYAROMATIC HYDROCARBONS SW8270D	BatchID: 177471	Analysis Date: 06/17/2013	Seq No: 5156750							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1-Methylnaphthalene	467.6	100	500.0		93.5	52.5	120				
2-Methylnaphthalene	448.4	100	500.0		89.7	50.9	120				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
Project Name: Lafarge East Point
Workorder: 1306C23

ANALYTICAL QC SUMMARY REPORT

BatchID: 177471

Sample ID: LCS-177471	Client ID:	Units: ug/L	Prep Date: 06/17/2013	Run No: 246157							
SampleType: LCS	TestCode: POLYAROMATIC HYDROCARBONS SW8270D	BatchID: 177471	Analysis Date: 06/17/2013	Seq No: 5156750							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Acenaphthene	441.2	100	500.0		88.2	49	120				
Acenaphthylene	447.0	100	500.0		89.4	58.5	123				
Anthracene	461.4	100	500.0		92.3	55.6	120				
Benz(a)anthracene	482.3	100	500.0		96.5	52.6	120				
Benzo(a)pyrene	413.1	100	500.0		82.6	53	120				
Benzo(b)fluoranthene	465.8	100	500.0		93.2	49.5	120				
Benzo(g,h,i)perylene	505.8	100	500.0		101	50	120				
Benzo(k)fluoranthene	442.8	100	500.0		88.6	50	120				
Chrysene	422.1	100	500.0		84.4	51.3	120				
Dibenz(a,h)anthracene	492.9	100	500.0		98.6	50.1	120				
Fluoranthene	467.1	100	500.0		93.4	59.5	124				
Fluorene	459.7	100	500.0		91.9	51.1	120				
Indeno(1,2,3-cd)pyrene	508.8	100	500.0		102	51.1	120				
Naphthalene	435.3	100	500.0		87.1	50.8	120				
Phenanthrene	450.1	100	500.0		90.0	54.4	120				
Pyrene	433.2	100	500.0		86.6	52.7	120				
Surr: 2-Fluorobiphenyl	447.4	0	500.0		89.5	40.6	116				
Surr: 4-Terphenyl-d14	530.5	0	500.0		106	51.8	124				
Surr: Nitrobenzene-d5	471.5	0	500.0		94.3	35	118				

Sample ID: 1306C23-001CMS	Client ID: ZONE 3C-SP1	Units: ug/L	Prep Date: 06/17/2013	Run No: 246157							
SampleType: MS	TestCode: POLYAROMATIC HYDROCARBONS SW8270D	BatchID: 177471	Analysis Date: 06/17/2013	Seq No: 5158124							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1-Methylnaphthalene	503.7	100	500.0		101	41.7	120				
2-Methylnaphthalene	467.7	100	500.0		93.5	40.2	120				
Acenaphthene	470.2	100	500.0		94.0	40.6	120				
Acenaphthylene	469.5	100	500.0		93.9	43.3	123				

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Arcadis
 Project Name: Lafarge East Point
 Workorder: 1306C23

ANALYTICAL QC SUMMARY REPORT

BatchID: 177471

Sample ID: 1306C23-001CMS	Client ID: ZONE 3C-SP1	Units: ug/L	Prep Date: 06/17/2013	Run No: 246157
SampleType: MS	TestCode: POLYAROMATIC HYDROCARBONS SW8270D	BatchID: 177471	Analysis Date: 06/17/2013	Seq No: 5158124

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Anthracene	488.8	100	500.0		97.8	49.3	120				
Benz(a)anthracene	496.6	100	500.0		99.3	50.4	120				
Benzo(a)pyrene	435.5	100	500.0		87.1	49.4	120				
Benzo(b)fluoranthene	493.3	100	500.0		98.7	47.7	120				
Benzo(g,h,i)perylene	541.6	100	500.0		108	45.4	120				
Benzo(k)fluoranthene	470.7	100	500.0		94.1	48.4	120				
Chrysene	450.0	100	500.0		90.0	50.9	120				
Dibenz(a,h)anthracene	548.3	100	500.0		110	49.3	120				
Fluoranthene	486.7	100	500.0		97.3	51.8	124				
Fluorene	474.5	100	500.0		94.9	44.4	120				
Indeno(1,2,3-cd)pyrene	531.6	100	500.0		106	50.9	120				
Naphthalene	458.8	100	500.0		91.8	35.7	120				
Phenanthrene	469.9	100	500.0		94.0	48.8	120				
Pyrene	459.4	100	500.0		91.9	50.9	120				
Surr: 2-Fluorobiphenyl	456.6	0	500.0		91.3	40.6	116				
Surr: 4-Terphenyl-d14	542.3	0	500.0		108	51.8	124				
Surr: Nitrobenzene-d5	504.8	0	500.0		101	35	118				

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
Project Name: Lafarge East Point
Workorder: 1306C23

ANALYTICAL QC SUMMARY REPORT

BatchID: 177489

Sample ID: MB-177489	Client ID:	Units: mg/L	Prep Date: 06/17/2013	Run No: 246129							
SampleType: MBLK	TestCode: MERCURY, TCLP SW1311/7470A	BatchID: 177489	Analysis Date: 06/17/2013	Seq No: 5157300							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Mercury BRL 0.00400

Sample ID: LCS-177489	Client ID:	Units: mg/L	Prep Date: 06/17/2013	Run No: 246129							
SampleType: LCS	TestCode: MERCURY, TCLP SW1311/7470A	BatchID: 177489	Analysis Date: 06/17/2013	Seq No: 5157301							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Mercury 0.03704 0.00400 0.0400 92.6 85 115

Sample ID: 1306A81-001AMS	Client ID:	Units: mg/L	Prep Date: 06/17/2013	Run No: 246129							
SampleType: MS	TestCode: MERCURY, TCLP SW1311/7470A	BatchID: 177489	Analysis Date: 06/17/2013	Seq No: 5157303							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Mercury 0.03857 0.00400 0.0400 96.4 80 120

Sample ID: 1306A81-001AMSD	Client ID:	Units: mg/L	Prep Date: 06/17/2013	Run No: 246129							
SampleType: MSD	TestCode: MERCURY, TCLP SW1311/7470A	BatchID: 177489	Analysis Date: 06/17/2013	Seq No: 5157304							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Mercury 0.03821 0.00400 0.0400 95.5 80 120 0.03857 0.914 20

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Arcadis
 Project Name: Lafarge East Point
 Workorder: 1306C23

ANALYTICAL QC SUMMARY REPORT

BatchID: 177505

Sample ID: MB-177505	Client ID:	Units: mg/L	Prep Date: 06/15/2013	Run No: 246105							
SampleType: MBLK	TestCode: VOLATILES, TCLP SW1311/8260B	BatchID: 177505	Analysis Date: 06/15/2013	Seq No: 5155870							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	BRL	0.10									
1,2-Dichloroethane	BRL	0.10									
2-Butanone	BRL	0.20									
Benzene	BRL	0.10									
Carbon tetrachloride	BRL	0.10									
Chlorobenzene	BRL	0.10									
Chloroform	BRL	0.10									
Tetrachloroethene	BRL	0.10									
Trichloroethene	BRL	0.10									
Vinyl chloride	BRL	0.040									
Surr: 4-Bromofluorobenzene	0.8476	0	1.000		84.8	65	129				
Surr: Dibromofluoromethane	1.052	0	1.000		105	72.3	129				
Surr: Toluene-d8	0.9526	0	1.000		95.3	74.2	118				

Sample ID: LCS-177505	Client ID:	Units: mg/L	Prep Date: 06/15/2013	Run No: 246105							
SampleType: LCS	TestCode: VOLATILES, TCLP SW1311/8260B	BatchID: 177505	Analysis Date: 06/15/2013	Seq No: 5155868							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	0.9116	0.10	1.000		91.2	53	139				
1,2-Dichloroethane	0.8434	0.10	1.000		84.3	62	143				
2-Butanone	1.706	0.20	2.000		85.3	42	146				
Benzene	0.8684	0.10	1.000		86.8	70.6	128				
Carbon tetrachloride	0.8984	0.10	1.000		89.8	56	146				
Chlorobenzene	0.8566	0.10	1.000		85.7	73	121				
Chloroform	0.8670	0.10	1.000		86.7	64.6	129				
Tetrachloroethene	0.8280	0.10	1.000		82.8	70.5	131				
Trichloroethene	0.8138	0.10	1.000		81.4	69.3	129				
Vinyl chloride	0.6564	0.040	1.000		65.6	46.1	139				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
Project Name: Lafarge East Point
Workorder: 1306C23

ANALYTICAL QC SUMMARY REPORT

BatchID: 177505

Sample ID: LCS-177505	Client ID:	Units: mg/L	Prep Date: 06/15/2013	Run No: 246105							
SampleType: LCS	TestCode: VOLATILES, TCLP SW1311/8260B	BatchID: 177505	Analysis Date: 06/15/2013	Seq No: 5155868							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Surr: 4-Bromofluorobenzene	1.051	0	1.000		105	65	129				
Surr: Dibromofluoromethane	1.059	0	1.000		106	72.3	129				
Surr: Toluene-d8	1.053	0	1.000		105	74.2	118				

Sample ID: 1306C23-001AMS	Client ID: ZONE 3C-SP1	Units: mg/L	Prep Date: 06/15/2013	Run No: 246105							
SampleType: MS	TestCode: VOLATILES, TCLP SW1311/8260B	BatchID: 177505	Analysis Date: 06/15/2013	Seq No: 5155872							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	1.242	0.10	1.000		124	52.3	155				
1,2-Dichloroethane	1.049	0.10	1.000		105	58.3	144				
2-Butanone	2.178	0.20	2.000		109	39.1	160				
Benzene	1.115	0.10	1.000		112	70	139				
Carbon tetrachloride	1.153	0.10	1.000		115	53.3	147				
Chlorobenzene	1.091	0.10	1.000		109	72.2	132				
Chloroform	1.101	0.10	1.000		110	63.7	135				
Tetrachloroethene	1.058	0.10	1.000		106	70	148				
Trichloroethene	1.084	0.10	1.000		108	67.8	149				
Vinyl chloride	1.197	0.040	1.000		120	46.1	152				
Surr: 4-Bromofluorobenzene	1.110	0	1.000		111	65	129				
Surr: Dibromofluoromethane	1.089	0	1.000		109	72.3	129				
Surr: Toluene-d8	1.083	0	1.000		108	74.2	118				

Sample ID: 1306C23-001ADUP	Client ID: ZONE 3C-SP1	Units: mg/L	Prep Date: 06/15/2013	Run No: 246105							
SampleType: DUP	TestCode: VOLATILES, TCLP SW1311/8260B	BatchID: 177505	Analysis Date: 06/15/2013	Seq No: 5155875							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	BRL	0.10						0	0	30	
1,2-Dichloroethane	BRL	0.10						0	0	30	

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Arcadis
 Project Name: Lafarge East Point
 Workorder: 1306C23

ANALYTICAL QC SUMMARY REPORT

BatchID: 177505

Sample ID: 1306C23-001ADUP Client ID: ZONE 3C-SP1 Units: mg/L Prep Date: 06/15/2013 Run No: 246105
 SampleType: DUP TestCode: VOLATILES, TCLP SW1311/8260B BatchID: 177505 Analysis Date: 06/15/2013 Seq No: 5155875

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
2-Butanone	BRL	0.20						0	0	30	
Benzene	BRL	0.10						0	0	30	
Carbon tetrachloride	BRL	0.10						0	0	30	
Chlorobenzene	BRL	0.10						0	0	30	
Chloroform	BRL	0.10						0	0	30	
Tetrachloroethene	BRL	0.10						0	0	30	
Trichloroethene	BRL	0.10						0	0	30	
Vinyl chloride	BRL	0.040						0	0	30	
Surr: 4-Bromofluorobenzene	0.8788	0	1.000		87.9	65	129	0.8712	0	0	
Surr: Dibromofluoromethane	1.059	0	1.000		106	72.3	129	1.079	0	0	
Surr: Toluene-d8	0.9404	0	1.000		94.0	74.2	118	0.9448	0	0	

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Arcadis
 Project Name: Lafarge East Point
 Workorder: 1306C23

ANALYTICAL QC SUMMARY REPORT

BatchID: 177540

Sample ID: LCS-177540	Client ID:	Units: pH Units	Prep Date: 06/17/2013	Run No: 246182							
SampleType: LCS	TestCode: Laboratory Hydrogen Ion (pH) SW9045D	BatchID: 177540	Analysis Date: 06/17/2013	Seq No: 5157415							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

pH 7.050 0.01 7.000 101 90 110

Sample ID: 1306C23-001BDUP	Client ID: ZONE 3C-SP1	Units: pH Units	Prep Date: 06/17/2013	Run No: 246182							
SampleType: DUP	TestCode: Laboratory Hydrogen Ion (pH) SW9045D	BatchID: 177540	Analysis Date: 06/17/2013	Seq No: 5157417							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

pH 7.790 0.01 7.830 0.512 10 H

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	

Client: Arcadis
Project Name: Lafarge East Point
Workorder: 1306C23

ANALYTICAL QC SUMMARY REPORT

BatchID: 177550

Sample ID: MB-177550	Client ID:	Units: mg/Kg	Prep Date: 06/17/2013	Run No: 246195							
SampleType: MBLK	TestCode: Sulfide, Reactive SW7.3.4.2	BatchID: 177550	Analysis Date: 06/17/2013	Seq No: 5157627							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Sulfide, Reactive

BRL 100

Sample ID: LCS-177550	Client ID:	Units: mg/Kg	Prep Date: 06/17/2013	Run No: 246195							
SampleType: LCS	TestCode: Sulfide, Reactive SW7.3.4.2	BatchID: 177550	Analysis Date: 06/17/2013	Seq No: 5157628							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Sulfide, Reactive

1880 100 2000 94.0 30 120

Sample ID: 1306C23-001BMS	Client ID: ZONE 3C-SP1	Units: mg/Kg	Prep Date: 06/17/2013	Run No: 246195							
SampleType: MS	TestCode: Sulfide, Reactive SW7.3.4.2	BatchID: 177550	Analysis Date: 06/17/2013	Seq No: 5157631							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Sulfide, Reactive

400.0 100 800.0 50.0 27.8 117

Sample ID: 1306C23-001BMSD	Client ID: ZONE 3C-SP1	Units: mg/Kg	Prep Date: 06/17/2013	Run No: 246195							
SampleType: MSD	TestCode: Sulfide, Reactive SW7.3.4.2	BatchID: 177550	Analysis Date: 06/17/2013	Seq No: 5157632							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Sulfide, Reactive

368.0 100 800.0 46.0 27.8 117 400.0 8.33 27

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	

Client: Arcadis
Project Name: Lafarge East Point
Workorder: 1306C23

ANALYTICAL QC SUMMARY REPORT

BatchID: 177555

Sample ID: MB-177555	Client ID:	Units: mg/Kg	Prep Date: 06/17/2013	Run No: 246198							
SampleType: MBLK	TestCode: Cyanide, Reactive SW7.3.3.2	BatchID: 177555	Analysis Date: 06/17/2013	Seq No: 5157688							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Cyanide, Reactive

BRL 1.00

Sample ID: LCS-177555	Client ID:	Units: mg/Kg	Prep Date: 06/17/2013	Run No: 246198							
SampleType: LCS	TestCode: Cyanide, Reactive SW7.3.3.2	BatchID: 177555	Analysis Date: 06/17/2013	Seq No: 5157689							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Cyanide, Reactive

8.515 1.00 12.50 68.1 50 150

Sample ID: 1306C23-001BMS	Client ID: ZONE 3C-SP1	Units: mg/Kg	Prep Date: 06/17/2013	Run No: 246198							
SampleType: MS	TestCode: Cyanide, Reactive SW7.3.3.2	BatchID: 177555	Analysis Date: 06/17/2013	Seq No: 5157695							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Cyanide, Reactive

8.710 1.00 12.50 69.7 19.9 120

Sample ID: 1306C23-001BMSD	Client ID: ZONE 3C-SP1	Units: mg/Kg	Prep Date: 06/17/2013	Run No: 246198							
SampleType: MSD	TestCode: Cyanide, Reactive SW7.3.3.2	BatchID: 177555	Analysis Date: 06/17/2013	Seq No: 5157696							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Cyanide, Reactive

8.233 0.952 11.90 69.2 19.9 120 8.710 5.63 30

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	

Client: Arcadis
 Project Name: Lafarge East Point
 Workorder: 1306C23

ANALYTICAL QC SUMMARY REPORT

BatchID: R246186

Sample ID: LCS-R246186	Client ID:	Units: °F	Prep Date:	Run No: 246186							
SampleType: LCS	TestCode: Ignitability SW1010A	BatchID: R246186	Analysis Date: 06/17/2013	Seq No: 5157455							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ignitability 80.00 0 80.00 100 93.8 106.2

Sample ID: 1306C23-001BDUP	Client ID: ZONE 3C-SP1	Units: °F	Prep Date:	Run No: 246186							
SampleType: DUP	TestCode: Ignitability SW1010A	BatchID: R246186	Analysis Date: 06/17/2013	Seq No: 5157461							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ignitability 180.0 0 180.0 0 20 >

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	



July 03, 2013

Peter Cornais
Arcadis
2081 Vista Parkway, Suite 200
West Palm Beach FL 33411

TEL: (850) 445-0829
FAX:

RE: Lafarge East Point

Dear Peter Cornais:

Order No: 1306G55

Analytical Environmental Services, Inc. received 1 samples on 6/13/2013 3:20:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/13-06/30/14.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/15.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Chantelle Kanhai
Project Manager



ANALYTICAL ENVIRONMENTAL SERVICES, INC

3785 Presidential Parkway, Atlanta GA 30340-3704

TEL: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1306655
1306623

Date: Page 1 of 1

COMPANY: Arcadis		ADDRESS: 1600 Cobb Place Blvd Bldg 500A			ANALYSIS REQUESTED										Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.		No # of Containers		
PHONE: 404-952-1602		FAX: Cecilia.reagan@arcadis-us.com			PRESERVATION (See codes)										REMARKS				
SAMPLED BY: K. Makrely, M. Myers		SIGNATURE: [Signature]			TOCP VOCs Fr. 1/4 reactivity ignif. stability TOCP SVOCs PCBs PAHs heavy metals														
#	SAMPLE ID	SAMPLED		Grab	Composite	Matrix (See codes)	PRESERVATION (See codes)										REMARKS	No # of Containers	
		DATE	TIME				H	F	H	H									
1	zone 3c - SP1	6/13/13	1135	X		SO	+	-	-	-							Hold Sample for SVOC lab list, Herbicides, Pesticides	5	
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
RELINQUISHED BY: [Signature]		DATE/TIME: 6/13/13 1520		RECEIVED BY: [Signature]		DATE/TIME: 6/13/13 3:00		PROJECT INFORMATION										RECEIPT	
1:		2:		3:		PROJECT NAME: Lafarge East Point		PROJECT #: HT 212 316		SITE ADDRESS: 2675 N. Martin St.		SEND REPORT TO: order.cerna@ae arcadis-us.com		INVOICE TO: (IF DIFFERENT FROM ABOVE)		Total # of Containers: 5			
SPECIAL INSTRUCTIONS/COMMENTS: 24 hr TAT		SHIPMENT METHOD: OUT VIA: IN VIA: CLIENT FedEx UPS MAIL COURIER GREYHOUND OTHER		QUOTE #: PO#:		STATE PROGRAM (if any):		B-mail? Y/N; Fax? Y/N		DATA PACKAGE: I II III IV		Turnaround Time Request: <input type="radio"/> Standard 5 Business Days <input type="radio"/> 2 Business Day Rush <input checked="" type="radio"/> Next Business Day Rush <input type="radio"/> Same Day Rush (auth req.) <input type="radio"/> Other							

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES. SAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMPLETION UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water
PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

Client: Arcadis
Project: Lafarge East Point
Lab ID: 1306G55

Case Narrative

Per Peter Cornais on 6/19/2013 via telephone, sample "ZONE 3C-SP1" was analyzed for TCLP SVOCs, Herbicides and Pesticides at 2 business day rush turnaround.

Client: Arcadis	Client Sample ID: ZONE 3C-SP1
Project Name: Lafarge East Point	Collection Date: 6/13/2013 11:35:00 AM
Lab ID: 1306G55-001	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
SEMIVOLATILES ORGANICS, TCLP SW1311/8270D (SW3510C)								
1,4-Dichlorobenzene	BRL	0.10		mg/L	177676	1	06/21/2013 11:49	YH
2,4,5-Trichlorophenol	BRL	0.10		mg/L	177676	1	06/21/2013 11:49	YH
2,4,6-Trichlorophenol	BRL	0.10		mg/L	177676	1	06/21/2013 11:49	YH
2,4-Dinitrotoluene	BRL	0.10		mg/L	177676	1	06/21/2013 11:49	YH
Hexachlorobenzene	BRL	0.10		mg/L	177676	1	06/21/2013 11:49	YH
Hexachlorobutadiene	BRL	0.10		mg/L	177676	1	06/21/2013 11:49	YH
Hexachloroethane	BRL	0.10		mg/L	177676	1	06/21/2013 11:49	YH
m,p-Cresol	BRL	0.10		mg/L	177676	1	06/21/2013 11:49	YH
Nitrobenzene	BRL	0.10		mg/L	177676	1	06/21/2013 11:49	YH
o-Cresol	BRL	0.10		mg/L	177676	1	06/21/2013 11:49	YH
Pentachlorophenol	BRL	0.50		mg/L	177676	1	06/21/2013 11:49	YH
Pyridine	BRL	0.10		mg/L	177676	1	06/21/2013 11:49	YH
Cresols, Total	BRL	0.10		mg/L	177676	1	06/21/2013 11:49	YH
Surr: 2,4,6-Tribromophenol	90.5	52.5-148		%REC	177676	1	06/21/2013 11:49	YH
Surr: 2-Fluorobiphenyl	99.8	55.4-129		%REC	177676	1	06/21/2013 11:49	YH
Surr: 2-Fluorophenol	98.3	46.5-121		%REC	177676	1	06/21/2013 11:49	YH
Surr: 4-Terphenyl-d14	107	56.2-149		%REC	177676	1	06/21/2013 11:49	YH
Surr: Nitrobenzene-d5	87.8	53-124		%REC	177676	1	06/21/2013 11:49	YH
Surr: Phenol-d5	89.4	41.7-121		%REC	177676	1	06/21/2013 11:49	YH
PESTICIDES, TCLP SW1311/8081B (SW3510C)								
Chlordane	BRL	0.0050		mg/L	177602	1	06/20/2013 15:45	KD
Endrin	BRL	0.0010		mg/L	177602	1	06/20/2013 15:45	KD
gamma-BHC	BRL	0.00050		mg/L	177602	1	06/20/2013 15:45	KD
Heptachlor	BRL	0.00050		mg/L	177602	1	06/20/2013 15:45	KD
Heptachlor epoxide	BRL	0.00050		mg/L	177602	1	06/20/2013 15:45	KD
Methoxychlor	BRL	0.0050		mg/L	177602	1	06/20/2013 15:45	KD
Toxaphene	BRL	0.050		mg/L	177602	1	06/20/2013 15:45	KD
Surr: Decachlorobiphenyl	97.7	30-121		%REC	177602	1	06/20/2013 15:45	KD
Surr: Tetrachloro-m-xylene	29.5	35.3-116	S	%REC	177602	1	06/20/2013 15:45	KD
HERBICIDES, TCLP SW1311/8151A (SW3510C)								
2,4,5-TP (Silvex)	BRL	0.20		mg/L	177506	1	06/20/2013 17:24	AK
2,4-D	BRL	0.20		mg/L	177506	1	06/20/2013 17:24	AK
Surr: DCAA	110	45.5-148		%REC	177506	1	06/20/2013 17:24	AK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Arcadis

Work Order Number 1306655 1306633 OK

Checklist completed by [Signature] Date 6/13/12

Carrier name: FedEx UPS Courier Client US Mail Other

Shipping container/cooler in good condition? Yes No Not Present

Custody seals intact on shipping container/cooler? Yes No Not Present

Custody seals intact on sample bottles? Yes No Not Present

Container/Temp Blank temperature in compliance? (4°C±2)* Yes No

Cooler #1 3.5 Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler #5 _____ Cooler #6 _____

Chain of custody present? Yes No

Chain of custody signed when relinquished and received? Yes No

Chain of custody agrees with sample labels? Yes No

Samples in proper container/bottle? Yes No

Sample containers intact? Yes No

Sufficient sample volume for indicated test? Yes No

All samples received within holding time? Yes No

Was TAT marked on the COC? Yes No

Proceed with Standard TAT as per project history? Yes No Not Applicable

Water - VOA vials have zero headspace? No VOA vials submitted Yes No

Water - pH acceptable upon receipt? Yes No Not Applicable

Sample Condition: Good Adjusted? _____ Other(Explain) _____ Checked by _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes No

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

Client: Arcadis
Project Name: Lafarge East Point
Workorder: 1306G55

ANALYTICAL QC SUMMARY REPORT

BatchID: 177506

Sample ID: MB-177506	Client ID:	Units: mg/L	Prep Date: 06/19/2013	Run No: 246508							
SampleType: MBLK	TestCode: HERBICIDES, TCLP SW1311/8151A	BatchID: 177506	Analysis Date: 06/20/2013	Seq No: 5164523							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2,4,5-TP (Silvex)	BRL	0.20									
2,4-D	BRL	0.20									
Surr: DCAA	0.5864	0	0.5000		117	45.5	148				

Sample ID: LCS-177506	Client ID:	Units: mg/L	Prep Date: 06/19/2013	Run No: 246508							
SampleType: LCS	TestCode: HERBICIDES, TCLP SW1311/8151A	BatchID: 177506	Analysis Date: 06/20/2013	Seq No: 5164524							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2,4,5-TP (Silvex)	0.5471	0.20	0.5000		109	63.7	134				
2,4-D	0.5560	0.20	0.5000		111	56.2	134				
Surr: DCAA	0.5580	0	0.5000		112	45.5	148				

Sample ID: 1306G55-001AMS	Client ID: ZONE 3C-SP1	Units: mg/L	Prep Date: 06/19/2013	Run No: 246508							
SampleType: MS	TestCode: HERBICIDES, TCLP SW1311/8151A	BatchID: 177506	Analysis Date: 06/20/2013	Seq No: 5164527							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2,4,5-TP (Silvex)	0.6891	0.20	0.5000		138	54	143				
2,4-D	0.6893	0.20	0.5000		138	45	142				
Surr: DCAA	0.6986	0	0.5000		140	45.5	148				

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
BRL	Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S Spike Recovery outside limits due to matrix	

Client: Arcadis
Project Name: Lafarge East Point
Workorder: 1306G55

ANALYTICAL QC SUMMARY REPORT

BatchID: 177602

Sample ID: MB-177602	Client ID:	Units: mg/L	Prep Date: 06/19/2013	Run No: 246489							
SampleType: MBLK	TestCode: PESTICIDES, TCLP SW1311/8081B	BatchID: 177602	Analysis Date: 06/20/2013	Seq No: 5164137							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chlordane	BRL	0.0050									
Endrin	BRL	0.0010									
gamma-BHC	BRL	0.00050									
Heptachlor	BRL	0.00050									
Heptachlor epoxide	BRL	0.00050									
Methoxychlor	BRL	0.0050									
Toxaphene	BRL	0.050									
Surr: Decachlorobiphenyl	0.004537	0	0.0050		90.7	30	121				
Surr: Tetrachloro-m-xylene	0.003658	0	0.0050		73.2	35.3	116				

Sample ID: LCS-177602-1	Client ID:	Units: mg/L	Prep Date: 06/19/2013	Run No: 246489							
SampleType: LCS	TestCode: PESTICIDES, TCLP SW1311/8081B	BatchID: 177602	Analysis Date: 06/20/2013	Seq No: 5164147							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Endrin	0.008320	0.0010	0.0080		104	52.9	130				
gamma-BHC	0.007179	0.00050	0.0080		89.7	45.4	121				
Heptachlor	0.007474	0.00050	0.0080		93.4	52.8	117				
Heptachlor epoxide	0.007981	0.00050	0.0080		99.8	57.2	117				
Methoxychlor	0.03528	0.0050	0.0300		118	57.3	118				
Surr: Decachlorobiphenyl	0.004864	0	0.0050		97.3	30	121				
Surr: Tetrachloro-m-xylene	0.003913	0	0.0050		78.3	35.3	116				

Sample ID: LCS-177602-2	Client ID:	Units: mg/L	Prep Date: 06/19/2013	Run No: 246489							
SampleType: LCS	TestCode: PESTICIDES, TCLP SW1311/8081B	BatchID: 177602	Analysis Date: 06/20/2013	Seq No: 5164154							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chlordane	0.03900	0.0050	0.0400		97.5	61.9	134				
Toxaphene	0.09611	0.050	0.0800		120	52.9	124				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
Project Name: Lafarge East Point
Workorder: 1306G55

ANALYTICAL QC SUMMARY REPORT

BatchID: 177602

Sample ID: LCS-177602-2	Client ID:	Units: mg/L	Prep Date: 06/19/2013	Run No: 246489							
SampleType: LCS	TestCode: PESTICIDES, TCLP SW1311/8081B	BatchID: 177602	Analysis Date: 06/20/2013	Seq No: 5164154							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Surr: Decachlorobiphenyl 0.004597 0 0.0050 91.9 30 121
 Surr: Tetrachloro-m-xylene 0.003656 0 0.0050 73.1 35.3 116

Sample ID: 1306B32-001BMS-1	Client ID:	Units: mg/L	Prep Date: 06/19/2013	Run No: 246489							
SampleType: MS	TestCode: PESTICIDES, TCLP SW1311/8081B	BatchID: 177602	Analysis Date: 06/20/2013	Seq No: 5164163							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Endrin 0.008349 0.0010 0.0080 104 47.7 138
 gamma-BHC 0.006523 0.00050 0.0080 81.5 44.1 121
 Heptachlor 0.006295 0.00050 0.0080 78.7 45.8 121
 Heptachlor epoxide 0.007831 0.00050 0.0080 97.9 55.1 121
 Methoxychlor 0.03552 0.0050 0.0300 118 49.4 124
 Surr: Decachlorobiphenyl 0.004592 0 0.0050 91.8 30 121
 Surr: Tetrachloro-m-xylene 0.002418 0 0.0050 48.4 35.3 116

Sample ID: 1306B32-001BMS-2	Client ID:	Units: mg/L	Prep Date: 06/19/2013	Run No: 246489							
SampleType: MS	TestCode: PESTICIDES, TCLP SW1311/8081B	BatchID: 177602	Analysis Date: 06/20/2013	Seq No: 5164166							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chlordane 0.03944 0.0050 0.0400 98.6 53.1 141
 Toxaphene 0.09713 0.050 0.0800 121 45.9 133
 Surr: Decachlorobiphenyl 0.004264 0 0.0050 85.3 30 121
 Surr: Tetrachloro-m-xylene 0.004054 0 0.0050 81.1 35.3 116

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Arcadis
 Project Name: Lafarge East Point
 Workorder: 1306G55

ANALYTICAL QC SUMMARY REPORT

BatchID: 177676

Sample ID: MB-177676	Client ID:	Units: mg/L	Prep Date: 06/20/2013	Run No: 246542							
SampleType: MBLK	TestCode: SEMIVOLATILES ORGANICS, TCLP SW1311/8270D	BatchID: 177676	Analysis Date: 06/20/2013	Seq No: 5165259							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,4-Dichlorobenzene	BRL	0.10									
2,4,5-Trichlorophenol	BRL	0.10									
2,4,6-Trichlorophenol	BRL	0.10									
2,4-Dinitrotoluene	BRL	0.10									
Cresols, Total	BRL	0.10									
Hexachlorobenzene	BRL	0.10									
Hexachlorobutadiene	BRL	0.10									
Hexachloroethane	BRL	0.10									
m,p-Cresol	BRL	0.10									
Nitrobenzene	BRL	0.10									
o-Cresol	BRL	0.10									
Pentachlorophenol	BRL	0.50									
Pyridine	BRL	0.10									
Surr: 2,4,6-Tribromophenol	0.9724	0	1.000		97.2	52.5	148				
Surr: 2-Fluorobiphenyl	0.5163	0	0.5000		103	55.4	129				
Surr: 2-Fluorophenol	0.9973	0	1.000		99.7	46.5	121				
Surr: 4-Terphenyl-d14	0.5426	0	0.5000		109	56.2	149				
Surr: Nitrobenzene-d5	0.4571	0	0.5000		91.4	53	124				
Surr: Phenol-d5	0.9191	0	1.000		91.9	41.7	121				

Sample ID: LCS-177676	Client ID:	Units: mg/L	Prep Date: 06/20/2013	Run No: 246542							
SampleType: LCS	TestCode: SEMIVOLATILES ORGANICS, TCLP SW1311/8270D	BatchID: 177676	Analysis Date: 06/20/2013	Seq No: 5165261							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,4-Dichlorobenzene	0.9333	0.10	1.000		93.3	69.4	118				
2,4,5-Trichlorophenol	1.139	0.10	1.000		114	65	136				
2,4,6-Trichlorophenol	1.106	0.10	1.000		111	76.9	133				
2,4-Dinitrotoluene	0.9953	0.10	1.000		99.5	71.6	128				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
 Project Name: Lafarge East Point
 Workorder: 1306G55

ANALYTICAL QC SUMMARY REPORT

BatchID: 177676

Sample ID: LCS-177676	Client ID:	Units: mg/L	Prep Date: 06/20/2013	Run No: 246542							
SampleType: LCS	TestCode: SEMIVOLATILES ORGANICS, TCLP SW1311/8270D	BatchID: 177676	Analysis Date: 06/20/2013	Seq No: 5165261							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Cresols, Total	3.193	0.10	3.000		106	67.7	123				
Hexachlorobenzene	0.9447	0.10	1.000		94.5	80.3	137				
Hexachlorobutadiene	0.9288	0.10	1.000		92.9	69.7	129				
Hexachloroethane	0.9139	0.10	1.000		91.4	67.1	117				
m,p-Cresol	2.123	0.10	2.000		106	63.6	124				
Nitrobenzene	1.031	0.10	1.000		103	73.4	123				
o-Cresol	1.070	0.10	1.000		107	73.2	123				
Pentachlorophenol	1.223	0.50	1.000		122	49.6	132				
Pyridine	0.3588	0.10	1.000		35.9	10	120				
Surr: 2,4,6-Tribromophenol	1.034	0	1.000		103	52.5	148				
Surr: 2-Fluorobiphenyl	0.5422	0	0.5000		108	55.4	129				
Surr: 2-Fluorophenol	1.052	0	1.000		105	46.5	121				
Surr: 4-Terphenyl-d14	0.5620	0	0.5000		112	56.2	149				
Surr: Nitrobenzene-d5	0.5615	0	0.5000		112	53	124				
Surr: Phenol-d5	0.9847	0	1.000		98.5	41.7	121				

Sample ID: 1306G56-001AMS	Client ID:	Units: mg/L	Prep Date: 06/20/2013	Run No: 246576							
SampleType: MS	TestCode: SEMIVOLATILES ORGANICS, TCLP SW1311/8270D	BatchID: 177676	Analysis Date: 06/21/2013	Seq No: 5167457							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,4-Dichlorobenzene	0.9107	0.10	1.000		91.1	57.6	116				
2,4,5-Trichlorophenol	1.101	0.10	1.000		110	57.8	134				
2,4,6-Trichlorophenol	1.064	0.10	1.000		106	65.7	131				
2,4-Dinitrotoluene	0.9488	0.10	1.000		94.9	54.5	129				*
Cresols, Total	3.143	0.10	3.000		105	54.8	123				
Hexachlorobenzene	0.9087	0.10	1.000		90.9	61.7	137				*
Hexachlorobutadiene	0.8933	0.10	1.000		89.3	54.7	130				*
Hexachloroethane	0.8881	0.10	1.000		88.8	54.5	117				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
 Project Name: Lafarge East Point
 Workorder: 1306G55

ANALYTICAL QC SUMMARY REPORT

BatchID: 177676

Sample ID: 1306G56-001AMS	Client ID:	Units: mg/L	Prep Date: 06/20/2013	Run No: 246576							
SampleType: MS	TestCode: SEMIVOLATILES ORGANICS, TCLP SW1311/8270D	BatchID: 177676	Analysis Date: 06/21/2013	Seq No: 5167457							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

m,p-Cresol	2.092	0.10	2.000		105	51.7	124				
Nitrobenzene	1.003	0.10	1.000		100	62.4	123				
o-Cresol	1.051	0.10	1.000		105	58.1	125				
Pentachlorophenol	1.212	0.50	1.000		121	40.7	137				
Pyridine	0.6131	0.10	1.000		61.3	10	120				
Surr: 2,4,6-Tribromophenol	0.9845	0	1.000		98.4	52.5	148				
Surr: 2-Fluorobiphenyl	0.5178	0	0.5000		104	55.4	129				
Surr: 2-Fluorophenol	1.029	0	1.000		103	46.5	121				
Surr: 4-Terphenyl-d14	0.5451	0	0.5000		109	56.2	149				
Surr: Nitrobenzene-d5	0.5423	0	0.5000		108	53	124				
Surr: Phenol-d5	0.9462	0	1.000		94.6	41.7	121				

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		



July 03, 2013

Peter Cornais
Arcadis
2081 Vista Parkway, Suite 200
West Palm Beach FL 33411

TEL: (850) 445-0829
FAX:

RE: Lafarge East Point

Dear Peter Cornais:

Order No: 1306C24

Analytical Environmental Services, Inc. received 1 samples on 6/13/2013 3:20:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/13-06/30/14.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/15.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Chantelle Kanhai
Project Manager

Client: Arcadis
Project: Lafarge East Point
Lab ID: 1306C24

Case Narrative

pH Analysis by Method 9045D:

Samples for pH analysis by Method 9045D were received and analyzed outside holding time requirement of "immediate or 15 minutes".

Client: Arcadis	Client Sample ID: ZONE 3D-SP1
Project Name: Lafarge East Point	Collection Date: 6/13/2013 12:00:00 PM
Lab ID: 1306C24-001	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
VOLATILES, TCLP SW1311/8260B		(SW1311)						
1,1-Dichloroethene	BRL	0.10		mg/L	177505	20	06/15/2013 17:28	NP
1,2-Dichloroethane	BRL	0.10		mg/L	177505	20	06/15/2013 17:28	NP
2-Butanone	BRL	0.20		mg/L	177505	20	06/15/2013 17:28	NP
Benzene	BRL	0.10		mg/L	177505	20	06/15/2013 17:28	NP
Carbon tetrachloride	BRL	0.10		mg/L	177505	20	06/15/2013 17:28	NP
Chlorobenzene	BRL	0.10		mg/L	177505	20	06/15/2013 17:28	NP
Chloroform	BRL	0.10		mg/L	177505	20	06/15/2013 17:28	NP
Tetrachloroethene	BRL	0.10		mg/L	177505	20	06/15/2013 17:28	NP
Trichloroethene	BRL	0.10		mg/L	177505	20	06/15/2013 17:28	NP
Vinyl chloride	BRL	0.040		mg/L	177505	20	06/15/2013 17:28	NP
Surr: 4-Bromofluorobenzene	86.5	65-129		%REC	177505	20	06/15/2013 17:28	NP
Surr: Dibromofluoromethane	109	72.3-129		%REC	177505	20	06/15/2013 17:28	NP
Surr: Toluene-d8	97.8	74.2-118		%REC	177505	20	06/15/2013 17:28	NP
Sulfide, Reactive SW7.3.4.2		(SW7.3.4.2)						
Sulfide, Reactive	BRL	100		mg/Kg	177550	1	06/17/2013 17:00	AS
POLYAROMATIC HYDROCARBONS SW8270D		(SW3535A)						
Naphthalene	BRL	100		ug/L	177471	1	06/17/2013 15:38	EI
Acenaphthylene	BRL	100		ug/L	177471	1	06/17/2013 15:38	EI
1-Methylnaphthalene	BRL	100		ug/L	177471	1	06/17/2013 15:38	EI
2-Methylnaphthalene	BRL	100		ug/L	177471	1	06/17/2013 15:38	EI
Acenaphthene	BRL	100		ug/L	177471	1	06/17/2013 15:38	EI
Fluorene	BRL	100		ug/L	177471	1	06/17/2013 15:38	EI
Phenanthrene	BRL	100		ug/L	177471	1	06/17/2013 15:38	EI
Anthracene	BRL	100		ug/L	177471	1	06/17/2013 15:38	EI
Fluoranthene	BRL	100		ug/L	177471	1	06/17/2013 15:38	EI
Pyrene	BRL	100		ug/L	177471	1	06/17/2013 15:38	EI
Benz(a)anthracene	BRL	100		ug/L	177471	1	06/17/2013 15:38	EI
Chrysene	BRL	100		ug/L	177471	1	06/17/2013 15:38	EI
Benzo(b)fluoranthene	BRL	100		ug/L	177471	1	06/17/2013 15:38	EI
Benzo(k)fluoranthene	BRL	100		ug/L	177471	1	06/17/2013 15:38	EI
Benzo(a)pyrene	BRL	100		ug/L	177471	1	06/17/2013 15:38	EI
Dibenz(a,h)anthracene	BRL	100		ug/L	177471	1	06/17/2013 15:38	EI
Benzo(g,h,i)perylene	BRL	100		ug/L	177471	1	06/17/2013 15:38	EI
Indeno(1,2,3-cd)pyrene	BRL	100		ug/L	177471	1	06/17/2013 15:38	EI
Surr: Nitrobenzene-d5	98.9	35-118		%REC	177471	1	06/17/2013 15:38	EI
Surr: 2-Fluorobiphenyl	91.3	40.6-116		%REC	177471	1	06/17/2013 15:38	EI
Surr: 4-Terphenyl-d14	107	51.8-124		%REC	177471	1	06/17/2013 15:38	EI
MERCURY, TCLP SW1311/7470A		(SW7470A)						

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: ZONE 3D-SP1
Project Name: Lafarge East Point	Collection Date: 6/13/2013 12:00:00 PM
Lab ID: 1306C24-001	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
MERCURY, TCLP SW1311/7470A (SW7470A)								
Mercury	BRL	0.00400		mg/L	177489	1	06/17/2013 16:18	JY
Laboratory Hydrogen Ion (pH) SW9045D (SW9045D)								
pH	8.05	0.01	H	pH Units	177540	1	06/17/2013 11:35	DM
Ignitability SW1010A								
Ignitability	180	0	>	°F	R246186	1	06/17/2013 15:00	LW
ICP METALS, TCLP SW1311/6010C (SW3010A)								
Arsenic	BRL	0.250		mg/L	177452	1	06/17/2013 12:56	JY
Barium	3.34	0.500		mg/L	177452	1	06/17/2013 12:56	JY
Cadmium	0.0368	0.0250		mg/L	177452	1	06/17/2013 12:56	JY
Chromium	BRL	0.0500		mg/L	177452	1	06/17/2013 12:56	JY
Lead	34.7	0.0500	*	mg/L	177452	1	06/17/2013 12:56	JY
Selenium	BRL	0.100		mg/L	177452	1	06/17/2013 12:56	JY
Silver	BRL	0.0250		mg/L	177452	1	06/17/2013 12:56	JY
Cyanide, Reactive SW7.3.3.2 (SW7.3.3.2)								
Cyanide, Reactive	BRL	0.952		mg/Kg	177555	1	06/17/2013 18:00	CG

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Arco

Work Order Number 1306024

Checklist completed by [Signature] Date 6/13/02

Carrier name: FedEx UPS Courier Client US Mail Other

Shipping container/cooler in good condition? Yes No Not Present

Custody seals intact on shipping container/cooler? Yes No Not Present

Custody seals intact on sample bottles? Yes No Not Present

Container/Temp Blank temperature in compliance? (4°C±2)* Yes No

Cooler #1 3.5 Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present? Yes No

Chain of custody signed when relinquished and received? Yes No

Chain of custody agrees with sample labels? Yes No

Samples in proper container/bottle? Yes No

Sample containers intact? Yes No

Sufficient sample volume for indicated test? Yes No

All samples received within holding time? Yes No

Was TAT marked on the COC? Yes No

Proceed with Standard TAT as per project history? Yes No Not Applicable

Water - VOA vials have zero headspace? No VOA vials submitted Yes No

Water - pH acceptable upon receipt? Yes No Not Applicable

Adjusted? _____ Checked by _____

Sample Condition: Good Other(Explain) _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes No

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

Client: Arcadis
Project: Lafarge East Point
Lab Order: 1306C24

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1306C24-001A	ZONE 3D-SP1	6/13/2013 12:00:00PM	Soil	VOLATILES, TCLP Leached	06/13/2013	06/15/2013	06/15/2013
1306C24-001B	ZONE 3D-SP1	6/13/2013 12:00:00PM	Soil	IGNITABILITY			06/17/2013
1306C24-001B	ZONE 3D-SP1	6/13/2013 12:00:00PM	Soil	Cyanide, Reactive		06/17/2013	06/17/2013
1306C24-001B	ZONE 3D-SP1	6/13/2013 12:00:00PM	Soil	Sulfide, Reactive		06/17/2013	06/17/2013
1306C24-001B	ZONE 3D-SP1	6/13/2013 12:00:00PM	Soil	Laboratory Hydrogen Ion (pH)		06/17/2013	06/17/2013
1306C24-001C	ZONE 3D-SP1	6/13/2013 12:00:00PM	Soil	MERCURY, TCLP Leached	06/17/2013	06/17/2013	06/17/2013
1306C24-001C	ZONE 3D-SP1	6/13/2013 12:00:00PM	Soil	ICP METALS, TCLP Leached	06/17/2013	06/17/2013	06/17/2013
1306C24-001C	ZONE 3D-SP1	6/13/2013 12:00:00PM	Soil	POLYNUCLEAR AROMATIC HYDROCARBONS		06/17/2013	06/17/2013

Client: Arcadis
 Project Name: Lafarge East Point
 Workorder: 1306C24

ANALYTICAL QC SUMMARY REPORT

BatchID: 177452

Sample ID: MB-177452	Client ID:	Units: mg/L	Prep Date: 06/17/2013	Run No: 246143							
SampleType: MBLK	TestCode: ICP METALS, TCLP SW1311/6010C	BatchID: 177452	Analysis Date: 06/17/2013	Seq No: 5156374							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	BRL	0.250									
Barium	BRL	0.500									
Cadmium	BRL	0.0250									
Chromium	BRL	0.0500									
Lead	BRL	0.0500									
Selenium	BRL	0.100									
Silver	BRL	0.0250									

Sample ID: LCS-177452	Client ID:	Units: mg/L	Prep Date: 06/17/2013	Run No: 246143							
SampleType: LCS	TestCode: ICP METALS, TCLP SW1311/6010C	BatchID: 177452	Analysis Date: 06/17/2013	Seq No: 5156373							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	5.184	0.250	5.000		104	85	115				
Barium	4.889	0.500	5.000	0.08800	96.0	80	120				
Cadmium	4.993	0.0250	5.000		99.9	85	115				
Chromium	4.974	0.0500	5.000		99.5	85	115				
Lead	4.888	0.0500	5.000		97.8	85	115				
Selenium	5.221	0.100	5.000		104	85	115				
Silver	0.4834	0.0250	0.5000		96.7	85	115				

Sample ID: 1306A81-001AMS	Client ID:	Units: mg/L	Prep Date: 06/17/2013	Run No: 246143							
SampleType: MS	TestCode: ICP METALS, TCLP SW1311/6010C	BatchID: 177452	Analysis Date: 06/17/2013	Seq No: 5156381							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	5.233	0.250	5.000		105	50	150				
Barium	5.175	0.500	5.000	0.1184	101	50	150				
Cadmium	5.288	0.0250	5.000	0.1549	103	50	150				
Chromium	6.390	0.0500	5.000	2.128	85.2	50	150				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
 Project Name: Lafarge East Point
 Workorder: 1306C24

ANALYTICAL QC SUMMARY REPORT

BatchID: 177452

Sample ID: 1306A81-001AMS	Client ID:	Units: mg/L	Prep Date: 06/17/2013	Run No: 246143							
SampleType: MS	TestCode: ICP METALS, TCLP SW1311/6010C	BatchID: 177452	Analysis Date: 06/17/2013	Seq No: 5156381							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Lead	5.218	0.0500	5.000	0.2519	99.3	50	150				
Selenium	5.288	0.100	5.000		106	50	150				
Silver	0.5040	0.0250	0.5000		101	50	150				

Sample ID: 1306A81-001AMSD	Client ID:	Units: mg/L	Prep Date: 06/17/2013	Run No: 246143							
SampleType: MSD	TestCode: ICP METALS, TCLP SW1311/6010C	BatchID: 177452	Analysis Date: 06/17/2013	Seq No: 5156382							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	5.221	0.250	5.000		104	50	150	5.233	0.223	30	
Barium	5.150	0.500	5.000	0.1184	101	50	150	5.175	0.470	30	
Cadmium	5.270	0.0250	5.000	0.1549	102	50	150	5.288	0.335	30	
Chromium	6.399	0.0500	5.000	2.128	85.4	50	150	6.390	0.140	30	
Lead	5.200	0.0500	5.000	0.2519	99.0	50	150	5.218	0.362	30	
Selenium	5.276	0.100	5.000		106	50	150	5.288	0.218	30	
Silver	0.5023	0.0250	0.5000		100	50	150	0.5040	0.348	30	

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Arcadis
Project Name: Lafarge East Point
Workorder: 1306C24

ANALYTICAL QC SUMMARY REPORT

BatchID: 177471

Sample ID: MB-177471	Client ID:	Units: ug/L	Prep Date: 06/17/2013	Run No: 246157							
SampleType: MBLK	TestCode: POLYAROMATIC HYDROCARBONS SW8270D	BatchID: 177471	Analysis Date: 06/17/2013	Seq No: 5156728							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1-Methylnaphthalene	BRL	100									
2-Methylnaphthalene	BRL	100									
Acenaphthene	BRL	100									
Acenaphthylene	BRL	100									
Anthracene	BRL	100									
Benz(a)anthracene	BRL	100									
Benzo(a)pyrene	BRL	100									
Benzo(b)fluoranthene	BRL	100									
Benzo(g,h,i)perylene	BRL	100									
Benzo(k)fluoranthene	BRL	100									
Chrysene	BRL	100									
Dibenz(a,h)anthracene	BRL	100									
Fluoranthene	BRL	100									
Fluorene	BRL	100									
Indeno(1,2,3-cd)pyrene	BRL	100									
Naphthalene	BRL	100									
Phenanthrene	BRL	100									
Pyrene	BRL	100									
Surr: 2-Fluorobiphenyl	476.6	0	500.0		95.3	40.6	116				
Surr: 4-Terphenyl-d14	548.5	0	500.0		110	51.8	124				
Surr: Nitrobenzene-d5	481.7	0	500.0		96.3	35	118				

Sample ID: LCS-177471	Client ID:	Units: ug/L	Prep Date: 06/17/2013	Run No: 246157							
SampleType: LCS	TestCode: POLYAROMATIC HYDROCARBONS SW8270D	BatchID: 177471	Analysis Date: 06/17/2013	Seq No: 5156750							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1-Methylnaphthalene	467.6	100	500.0		93.5	52.5	120				
2-Methylnaphthalene	448.4	100	500.0		89.7	50.9	120				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
Project Name: Lafarge East Point
Workorder: 1306C24

ANALYTICAL QC SUMMARY REPORT

BatchID: 177471

Sample ID: LCS-177471	Client ID:	Units: ug/L	Prep Date: 06/17/2013	Run No: 246157							
SampleType: LCS	TestCode: POLYAROMATIC HYDROCARBONS SW8270D	BatchID: 177471	Analysis Date: 06/17/2013	Seq No: 5156750							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Acenaphthene	441.2	100	500.0		88.2	49	120				
Acenaphthylene	447.0	100	500.0		89.4	58.5	123				
Anthracene	461.4	100	500.0		92.3	55.6	120				
Benz(a)anthracene	482.3	100	500.0		96.5	52.6	120				
Benzo(a)pyrene	413.1	100	500.0		82.6	53	120				
Benzo(b)fluoranthene	465.8	100	500.0		93.2	49.5	120				
Benzo(g,h,i)perylene	505.8	100	500.0		101	50	120				
Benzo(k)fluoranthene	442.8	100	500.0		88.6	50	120				
Chrysene	422.1	100	500.0		84.4	51.3	120				
Dibenz(a,h)anthracene	492.9	100	500.0		98.6	50.1	120				
Fluoranthene	467.1	100	500.0		93.4	59.5	124				
Fluorene	459.7	100	500.0		91.9	51.1	120				
Indeno(1,2,3-cd)pyrene	508.8	100	500.0		102	51.1	120				
Naphthalene	435.3	100	500.0		87.1	50.8	120				
Phenanthrene	450.1	100	500.0		90.0	54.4	120				
Pyrene	433.2	100	500.0		86.6	52.7	120				
Surr: 2-Fluorobiphenyl	447.4	0	500.0		89.5	40.6	116				
Surr: 4-Terphenyl-d14	530.5	0	500.0		106	51.8	124				
Surr: Nitrobenzene-d5	471.5	0	500.0		94.3	35	118				

Sample ID: 1306C23-001CMS	Client ID:	Units: ug/L	Prep Date: 06/17/2013	Run No: 246157							
SampleType: MS	TestCode: POLYAROMATIC HYDROCARBONS SW8270D	BatchID: 177471	Analysis Date: 06/17/2013	Seq No: 5158124							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1-Methylnaphthalene	503.7	100	500.0		101	41.7	120				
2-Methylnaphthalene	467.7	100	500.0		93.5	40.2	120				
Acenaphthene	470.2	100	500.0		94.0	40.6	120				
Acenaphthylene	469.5	100	500.0		93.9	43.3	123				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
 Project Name: Lafarge East Point
 Workorder: 1306C24

ANALYTICAL QC SUMMARY REPORT

BatchID: 177471

Sample ID: 1306C23-001CMS	Client ID:	Units: ug/L	Prep Date: 06/17/2013	Run No: 246157
SampleType: MS	TestCode: POLYAROMATIC HYDROCARBONS SW8270D	BatchID: 177471	Analysis Date: 06/17/2013	Seq No: 5158124

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Anthracene	488.8	100	500.0		97.8	49.3	120				
Benz(a)anthracene	496.6	100	500.0		99.3	50.4	120				
Benzo(a)pyrene	435.5	100	500.0		87.1	49.4	120				
Benzo(b)fluoranthene	493.3	100	500.0		98.7	47.7	120				
Benzo(g,h,i)perylene	541.6	100	500.0		108	45.4	120				
Benzo(k)fluoranthene	470.7	100	500.0		94.1	48.4	120				
Chrysene	450.0	100	500.0		90.0	50.9	120				
Dibenz(a,h)anthracene	548.3	100	500.0		110	49.3	120				
Fluoranthene	486.7	100	500.0		97.3	51.8	124				
Fluorene	474.5	100	500.0		94.9	44.4	120				
Indeno(1,2,3-cd)pyrene	531.6	100	500.0		106	50.9	120				
Naphthalene	458.8	100	500.0		91.8	35.7	120				
Phenanthrene	469.9	100	500.0		94.0	48.8	120				
Pyrene	459.4	100	500.0		91.9	50.9	120				
Surr: 2-Fluorobiphenyl	456.6	0	500.0		91.3	40.6	116				
Surr: 4-Terphenyl-d14	542.3	0	500.0		108	51.8	124				
Surr: Nitrobenzene-d5	504.8	0	500.0		101	35	118				

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
Project Name: Lafarge East Point
Workorder: 1306C24

ANALYTICAL QC SUMMARY REPORT

BatchID: 177489

Sample ID: MB-177489	Client ID:	Units: mg/L	Prep Date: 06/17/2013	Run No: 246129							
SampleType: MBLK	TestCode: MERCURY, TCLP SW1311/7470A	BatchID: 177489	Analysis Date: 06/17/2013	Seq No: 5157300							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Mercury BRL 0.00400

Sample ID: LCS-177489	Client ID:	Units: mg/L	Prep Date: 06/17/2013	Run No: 246129							
SampleType: LCS	TestCode: MERCURY, TCLP SW1311/7470A	BatchID: 177489	Analysis Date: 06/17/2013	Seq No: 5157301							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Mercury 0.03704 0.00400 0.0400 92.6 85 115

Sample ID: 1306A81-001AMS	Client ID:	Units: mg/L	Prep Date: 06/17/2013	Run No: 246129							
SampleType: MS	TestCode: MERCURY, TCLP SW1311/7470A	BatchID: 177489	Analysis Date: 06/17/2013	Seq No: 5157303							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Mercury 0.03857 0.00400 0.0400 96.4 80 120

Sample ID: 1306A81-001AMSD	Client ID:	Units: mg/L	Prep Date: 06/17/2013	Run No: 246129							
SampleType: MSD	TestCode: MERCURY, TCLP SW1311/7470A	BatchID: 177489	Analysis Date: 06/17/2013	Seq No: 5157304							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Mercury 0.03821 0.00400 0.0400 95.5 80 120 0.03857 0.914 20

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Arcadis
 Project Name: Lafarge East Point
 Workorder: 1306C24

ANALYTICAL QC SUMMARY REPORT

BatchID: 177505

Sample ID: MB-177505	Client ID:	Units: mg/L	Prep Date: 06/15/2013	Run No: 246105							
SampleType: MBLK	TestCode: VOLATILES, TCLP SW1311/8260B	BatchID: 177505	Analysis Date: 06/15/2013	Seq No: 5155870							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	BRL	0.10									
1,2-Dichloroethane	BRL	0.10									
2-Butanone	BRL	0.20									
Benzene	BRL	0.10									
Carbon tetrachloride	BRL	0.10									
Chlorobenzene	BRL	0.10									
Chloroform	BRL	0.10									
Tetrachloroethene	BRL	0.10									
Trichloroethene	BRL	0.10									
Vinyl chloride	BRL	0.040									
Surr: 4-Bromofluorobenzene	0.8476	0	1.000		84.8	65	129				
Surr: Dibromofluoromethane	1.052	0	1.000		105	72.3	129				
Surr: Toluene-d8	0.9526	0	1.000		95.3	74.2	118				

Sample ID: LCS-177505	Client ID:	Units: mg/L	Prep Date: 06/15/2013	Run No: 246105							
SampleType: LCS	TestCode: VOLATILES, TCLP SW1311/8260B	BatchID: 177505	Analysis Date: 06/15/2013	Seq No: 5155868							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	0.9116	0.10	1.000		91.2	53	139				
1,2-Dichloroethane	0.8434	0.10	1.000		84.3	62	143				
2-Butanone	1.706	0.20	2.000		85.3	42	146				
Benzene	0.8684	0.10	1.000		86.8	70.6	128				
Carbon tetrachloride	0.8984	0.10	1.000		89.8	56	146				
Chlorobenzene	0.8566	0.10	1.000		85.7	73	121				
Chloroform	0.8670	0.10	1.000		86.7	64.6	129				
Tetrachloroethene	0.8280	0.10	1.000		82.8	70.5	131				
Trichloroethene	0.8138	0.10	1.000		81.4	69.3	129				
Vinyl chloride	0.6564	0.040	1.000		65.6	46.1	139				

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
Project Name: Lafarge East Point
Workorder: 1306C24

ANALYTICAL QC SUMMARY REPORT

BatchID: 177505

Sample ID: LCS-177505	Client ID:	Units: mg/L	Prep Date: 06/15/2013	Run No: 246105							
SampleType: LCS	TestCode: VOLATILES, TCLP SW1311/8260B	BatchID: 177505	Analysis Date: 06/15/2013	Seq No: 5155868							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Surr: 4-Bromofluorobenzene	1.051	0	1.000		105	65	129				
Surr: Dibromofluoromethane	1.059	0	1.000		106	72.3	129				
Surr: Toluene-d8	1.053	0	1.000		105	74.2	118				

Sample ID: 1306C23-001AMS	Client ID:	Units: mg/L	Prep Date: 06/15/2013	Run No: 246105							
SampleType: MS	TestCode: VOLATILES, TCLP SW1311/8260B	BatchID: 177505	Analysis Date: 06/15/2013	Seq No: 5155872							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	1.242	0.10	1.000		124	52.3	155				
1,2-Dichloroethane	1.049	0.10	1.000		105	58.3	144				
2-Butanone	2.178	0.20	2.000		109	39.1	160				
Benzene	1.115	0.10	1.000		112	70	139				
Carbon tetrachloride	1.153	0.10	1.000		115	53.3	147				
Chlorobenzene	1.091	0.10	1.000		109	72.2	132				
Chloroform	1.101	0.10	1.000		110	63.7	135				
Tetrachloroethene	1.058	0.10	1.000		106	70	148				
Trichloroethene	1.084	0.10	1.000		108	67.8	149				
Vinyl chloride	1.197	0.040	1.000		120	46.1	152				
Surr: 4-Bromofluorobenzene	1.110	0	1.000		111	65	129				
Surr: Dibromofluoromethane	1.089	0	1.000		109	72.3	129				
Surr: Toluene-d8	1.083	0	1.000		108	74.2	118				

Sample ID: 1306C23-001ADUP	Client ID:	Units: mg/L	Prep Date: 06/15/2013	Run No: 246105							
SampleType: DUP	TestCode: VOLATILES, TCLP SW1311/8260B	BatchID: 177505	Analysis Date: 06/15/2013	Seq No: 5155875							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	BRL	0.10						0	0	30	
1,2-Dichloroethane	BRL	0.10						0	0	30	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
 Project Name: Lafarge East Point
 Workorder: 1306C24

ANALYTICAL QC SUMMARY REPORT

BatchID: 177505

Sample ID: 1306C23-001ADUP	Client ID:	Units: mg/L	Prep Date: 06/15/2013	Run No: 246105							
SampleType: DUP	TestCode: VOLATILES, TCLP SW1311/8260B	BatchID: 177505	Analysis Date: 06/15/2013	Seq No: 5155875							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2-Butanone	BRL	0.20						0	0	30	
Benzene	BRL	0.10						0	0	30	
Carbon tetrachloride	BRL	0.10						0	0	30	
Chlorobenzene	BRL	0.10						0	0	30	
Chloroform	BRL	0.10						0	0	30	
Tetrachloroethene	BRL	0.10						0	0	30	
Trichloroethene	BRL	0.10						0	0	30	
Vinyl chloride	BRL	0.040						0	0	30	
Surr: 4-Bromofluorobenzene	0.8788	0	1.000		87.9	65	129	0.8712	0	0	
Surr: Dibromofluoromethane	1.059	0	1.000		106	72.3	129	1.079	0	0	
Surr: Toluene-d8	0.9404	0	1.000		94.0	74.2	118	0.9448	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
 Project Name: Lafarge East Point
 Workorder: 1306C24

ANALYTICAL QC SUMMARY REPORT

BatchID: 177540

Sample ID: LCS-177540	Client ID:	Units: pH Units	Prep Date: 06/17/2013	Run No: 246182							
SampleType: LCS	TestCode: Laboratory Hydrogen Ion (pH) SW9045D	BatchID: 177540	Analysis Date: 06/17/2013	Seq No: 5157415							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

pH 7.050 0.01 7.000 101 90 110

Sample ID: 1306C23-001BDUP	Client ID:	Units: pH Units	Prep Date: 06/17/2013	Run No: 246182							
SampleType: DUP	TestCode: Laboratory Hydrogen Ion (pH) SW9045D	BatchID: 177540	Analysis Date: 06/17/2013	Seq No: 5157417							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

pH 7.790 0.01 7.830 0.512 10 H

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	

Client: Arcadis
 Project Name: Lafarge East Point
 Workorder: 1306C24

ANALYTICAL QC SUMMARY REPORT

BatchID: 177550

Sample ID: MB-177550	Client ID:	Units: mg/Kg	Prep Date: 06/17/2013	Run No: 246195							
SampleType: MBLK	TestCode: Sulfide, Reactive SW7.3.4.2	BatchID: 177550	Analysis Date: 06/17/2013	Seq No: 5157627							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Sulfide, Reactive

BRL 100

Sample ID: LCS-177550	Client ID:	Units: mg/Kg	Prep Date: 06/17/2013	Run No: 246195							
SampleType: LCS	TestCode: Sulfide, Reactive SW7.3.4.2	BatchID: 177550	Analysis Date: 06/17/2013	Seq No: 5157628							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Sulfide, Reactive

1880 100 2000 94.0 30 120

Sample ID: 1306C23-001BMS	Client ID:	Units: mg/Kg	Prep Date: 06/17/2013	Run No: 246195							
SampleType: MS	TestCode: Sulfide, Reactive SW7.3.4.2	BatchID: 177550	Analysis Date: 06/17/2013	Seq No: 5157631							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Sulfide, Reactive

400.0 100 800.0 50.0 27.8 117

Sample ID: 1306C23-001BMSD	Client ID:	Units: mg/Kg	Prep Date: 06/17/2013	Run No: 246195							
SampleType: MSD	TestCode: Sulfide, Reactive SW7.3.4.2	BatchID: 177550	Analysis Date: 06/17/2013	Seq No: 5157632							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Sulfide, Reactive

368.0 100 800.0 46.0 27.8 117 400.0 8.33 27

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	

Client: Arcadis
Project Name: Lafarge East Point
Workorder: 1306C24

ANALYTICAL QC SUMMARY REPORT

BatchID: 177555

Sample ID: MB-177555	Client ID:	Units: mg/Kg	Prep Date: 06/17/2013	Run No: 246198							
SampleType: MBLK	TestCode: Cyanide, Reactive SW7.3.3.2	BatchID: 177555	Analysis Date: 06/17/2013	Seq No: 5157688							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Cyanide, Reactive

BRL 1.00

Sample ID: LCS-177555	Client ID:	Units: mg/Kg	Prep Date: 06/17/2013	Run No: 246198							
SampleType: LCS	TestCode: Cyanide, Reactive SW7.3.3.2	BatchID: 177555	Analysis Date: 06/17/2013	Seq No: 5157689							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Cyanide, Reactive

8.515 1.00 12.50 68.1 50 150

Sample ID: 1306C23-001BMS	Client ID:	Units: mg/Kg	Prep Date: 06/17/2013	Run No: 246198							
SampleType: MS	TestCode: Cyanide, Reactive SW7.3.3.2	BatchID: 177555	Analysis Date: 06/17/2013	Seq No: 5157695							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Cyanide, Reactive

8.710 1.00 12.50 69.7 19.9 120

Sample ID: 1306C23-001BMSD	Client ID:	Units: mg/Kg	Prep Date: 06/17/2013	Run No: 246198							
SampleType: MSD	TestCode: Cyanide, Reactive SW7.3.3.2	BatchID: 177555	Analysis Date: 06/17/2013	Seq No: 5157696							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Cyanide, Reactive

8.233 0.952 11.90 69.2 19.9 120 8.710 5.63 30

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	

Client: Arcadis
 Project Name: Lafarge East Point
 Workorder: 1306C24

ANALYTICAL QC SUMMARY REPORT

BatchID: R246186

Sample ID: LCS-R246186	Client ID:	Units: °F	Prep Date:	Run No: 246186							
SampleType: LCS	TestCode: Ignitability SW1010A	BatchID: R246186	Analysis Date: 06/17/2013	Seq No: 5157455							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ignitability	80.00	0	80.00		100	93.8	106.2				
--------------	-------	---	-------	--	-----	------	-------	--	--	--	--

Sample ID: 1306C23-001BDUP	Client ID:	Units: °F	Prep Date:	Run No: 246186							
SampleType: DUP	TestCode: Ignitability SW1010A	BatchID: R246186	Analysis Date: 06/17/2013	Seq No: 5157461							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ignitability	180.0	0						180.0	0	20	>
--------------	-------	---	--	--	--	--	--	-------	---	----	---

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		



July 03, 2013

Peter Cornais
Arcadis
2081 Vista Parkway, Suite 200
West Palm Beach FL 33411

TEL: (850) 445-0829
FAX:

RE: Lafarge East Point

Dear Peter Cornais:

Order No: 1306G56

Analytical Environmental Services, Inc. received 1 samples on 6/13/2013 3:20:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/13-06/30/14.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/15.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Chantelle Kanhai
Project Manager



ANALYTICAL ENVIRONMENTAL SERVICES, INC

3785 Presidential Parkway, Atlanta GA 30340-3704

TEL: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1306624

1306656
1306624

Date: _____ Page 1 of 1

COMPANY: ARCADIS		ADDRESS: 1000 Cobb Place Blvd Bldg 500A Kennesaw GA 30144			ANALYSIS REQUESTED				Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.	No # of Containers			
PHONE: 404 952 1602		FAX: coelia.reagan@arcadis-us.com			TRP VOC full reactivity 19 stability explosive TRP SVOC RCRA PAH, PCB, metals								
SAMPLED BY: K. Maloney, M. Myers		SIGNATURE: <i>[Signature]</i>											
#	SAMPLE ID	SAMPLED		Grab	Composite	Matrix (See codes)	PRESERVATION (See codes)				REMARKS		
		DATE	TIME										
1	Zone 3d - SP1	6/13/13	1200	X		SO						Hold Sample for SVOCs full list, Herbicides, Pesticides	5
2													
3													
4													
5													
6													
7													
8													
9													
10													
11													
12													
13													
14													

RELINQUISHED BY		DATE/TIME	RECEIVED BY	DATE/TIME	PROJECT INFORMATION		RECEIPT		
1: <i>[Signature]</i>		6/13/13 1520	1: <i>[Signature]</i>	6/13/13 3:00	PROJECT NAME: Latarge East Point		Total # of Containers: 5		
2:			2:		PROJECT #: HT 212576		Turnaround Time Request		
3:			3:		SITE ADDRESS: 2675 N. martin St.		<input type="radio"/> Standard 5 Business Days <input type="radio"/> 2 Business Day Rush <input checked="" type="radio"/> Next Business Day Rush <input type="radio"/> Same Day Rush (auth req.) <input type="radio"/> Other _____		
SPECIAL INSTRUCTIONS/COMMENTS:				SHIPMENT METHOD		SEND REPORT TO: peter.canais@arcadis-us.com		STATE PROGRAM (if any): _____	
24 hr TAT				OUT / IN		INVOICE TO: _____		E-mail? Y/N; Fax? Y/N	
				CLIENT: <input checked="" type="radio"/> FedEx <input type="radio"/> UPS <input type="radio"/> MAIL <input type="radio"/> COURIER		(IF DIFFERENT FROM ABOVE)		DATA PACKAGE: I II III IV	
				GREYHOUND OTHER _____		QUOTE #: _____ PO#: _____			

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES. SAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMPLETION UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water
PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

Client: Arcadis
Project: Lafarge East Point
Lab ID: 1306G56

Case Narrative

Per Peter Cornais on 6/19/2013 via telephone, sample "ZONE 3D-SP1" was analyzed for TCLP SVOCs, Herbicides and Pesticides at 2 business day rush turnaround.

Client: Arcadis	Client Sample ID: ZONE 3D-SP1
Project Name: Lafarge East Point	Collection Date: 6/13/2013 12:00:00 PM
Lab ID: 1306G56-001	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
SEMIVOLATILES ORGANICS, TCLP SW1311/8270D (SW3510C)								
1,4-Dichlorobenzene	BRL	0.10		mg/L	177676	1	06/21/2013 12:16	YH
2,4,5-Trichlorophenol	BRL	0.10		mg/L	177676	1	06/21/2013 12:16	YH
2,4,6-Trichlorophenol	BRL	0.10		mg/L	177676	1	06/21/2013 12:16	YH
2,4-Dinitrotoluene	BRL	0.10		mg/L	177676	1	06/21/2013 12:16	YH
Hexachlorobenzene	BRL	0.10		mg/L	177676	1	06/21/2013 12:16	YH
Hexachlorobutadiene	BRL	0.10		mg/L	177676	1	06/21/2013 12:16	YH
Hexachloroethane	BRL	0.10		mg/L	177676	1	06/21/2013 12:16	YH
m,p-Cresol	BRL	0.10		mg/L	177676	1	06/21/2013 12:16	YH
Nitrobenzene	BRL	0.10		mg/L	177676	1	06/21/2013 12:16	YH
o-Cresol	BRL	0.10		mg/L	177676	1	06/21/2013 12:16	YH
Pentachlorophenol	BRL	0.50		mg/L	177676	1	06/21/2013 12:16	YH
Pyridine	BRL	0.10		mg/L	177676	1	06/21/2013 12:16	YH
Cresols, Total	BRL	0.10		mg/L	177676	1	06/21/2013 12:16	YH
Surr: 2,4,6-Tribromophenol	101	52.5-148		%REC	177676	1	06/21/2013 12:16	YH
Surr: 2-Fluorobiphenyl	108	55.4-129		%REC	177676	1	06/21/2013 12:16	YH
Surr: 2-Fluorophenol	106	46.5-121		%REC	177676	1	06/21/2013 12:16	YH
Surr: 4-Terphenyl-d14	114	56.2-149		%REC	177676	1	06/21/2013 12:16	YH
Surr: Nitrobenzene-d5	95.3	53-124		%REC	177676	1	06/21/2013 12:16	YH
Surr: Phenol-d5	97.1	41.7-121		%REC	177676	1	06/21/2013 12:16	YH
PESTICIDES, TCLP SW1311/8081B (SW3510C)								
Chlordane	BRL	0.0050		mg/L	177602	1	06/20/2013 15:56	KD
Endrin	BRL	0.0010		mg/L	177602	1	06/20/2013 15:56	KD
gamma-BHC	BRL	0.00050		mg/L	177602	1	06/20/2013 15:56	KD
Heptachlor	BRL	0.00050		mg/L	177602	1	06/20/2013 15:56	KD
Heptachlor epoxide	BRL	0.00050		mg/L	177602	1	06/20/2013 15:56	KD
Methoxychlor	BRL	0.0050		mg/L	177602	1	06/20/2013 15:56	KD
Toxaphene	BRL	0.050		mg/L	177602	1	06/20/2013 15:56	KD
Surr: Decachlorobiphenyl	85.7	30-121		%REC	177602	1	06/20/2013 15:56	KD
Surr: Tetrachloro-m-xylene	49.7	35.3-116		%REC	177602	1	06/20/2013 15:56	KD
HERBICIDES, TCLP SW1311/8151A (SW3510C)								
2,4,5-TP (Silvex)	BRL	0.20		mg/L	177506	1	06/20/2013 18:21	AK
2,4-D	BRL	0.20		mg/L	177506	1	06/20/2013 18:21	AK
Surr: DCAA	124	45.5-148		%REC	177506	1	06/20/2013 18:21	AK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Arcadis

Work Order Number 1306656 1306609

Checklist completed by [Signature] Date 6/13/12

Carrier name: FedEx UPS Courier Client US Mail Other

Shipping container/cooler in good condition? Yes No Not Present

Custody seals intact on shipping container/cooler? Yes No Not Present

Custody seals intact on sample bottles? Yes No Not Present

Container/Temp Blank temperature in compliance? (4°C±2)* Yes No

Cooler #1 3.5 Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler #5 _____ Cooler #6 _____

Chain of custody present? Yes No

Chain of custody signed when relinquished and received? Yes No

Chain of custody agrees with sample labels? Yes No

Samples in proper container/bottle? Yes No

Sample containers intact? Yes No

Sufficient sample volume for indicated test? Yes No

All samples received within holding time? Yes No

Was TAT marked on the COC? Yes No

Proceed with Standard TAT as per project history? Yes No Not Applicable

Water - VOA vials have zero headspace? No VOA vials submitted Yes No

Water - pH acceptable upon receipt? Yes No Not Applicable

Sample Condition: Good Adjusted? _____ Other(Explain) _____ Checked by _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes No

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

Client: Arcadis
Project Name: Lafarge East Point
Workorder: 1306G56

ANALYTICAL QC SUMMARY REPORT

BatchID: 177506

Sample ID: MB-177506	Client ID:	Units: mg/L	Prep Date: 06/19/2013	Run No: 246508							
SampleType: MBLK	TestCode: HERBICIDES, TCLP SW1311/8151A	BatchID: 177506	Analysis Date: 06/20/2013	Seq No: 5164523							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2,4,5-TP (Silvex)	BRL	0.20									
2,4-D	BRL	0.20									
Surr: DCAA	0.5864	0	0.5000		117	45.5	148				

Sample ID: LCS-177506	Client ID:	Units: mg/L	Prep Date: 06/19/2013	Run No: 246508							
SampleType: LCS	TestCode: HERBICIDES, TCLP SW1311/8151A	BatchID: 177506	Analysis Date: 06/20/2013	Seq No: 5164524							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2,4,5-TP (Silvex)	0.5471	0.20	0.5000		109	63.7	134				
2,4-D	0.5560	0.20	0.5000		111	56.2	134				
Surr: DCAA	0.5580	0	0.5000		112	45.5	148				

Sample ID: 1306G55-001AMS	Client ID:	Units: mg/L	Prep Date: 06/19/2013	Run No: 246508							
SampleType: MS	TestCode: HERBICIDES, TCLP SW1311/8151A	BatchID: 177506	Analysis Date: 06/20/2013	Seq No: 5164527							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2,4,5-TP (Silvex)	0.6891	0.20	0.5000		138	54	143				
2,4-D	0.6893	0.20	0.5000		138	45	142				
Surr: DCAA	0.6986	0	0.5000		140	45.5	148				

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	

Client: Arcadis
Project Name: Lafarge East Point
Workorder: 1306G56

ANALYTICAL QC SUMMARY REPORT

BatchID: 177602

Sample ID: MB-177602	Client ID:	Units: mg/L	Prep Date: 06/19/2013	Run No: 246489							
SampleType: MBLK	TestCode: PESTICIDES, TCLP SW1311/8081B	BatchID: 177602	Analysis Date: 06/20/2013	Seq No: 5164137							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chlordane	BRL	0.0050									
Endrin	BRL	0.0010									
gamma-BHC	BRL	0.00050									
Heptachlor	BRL	0.00050									
Heptachlor epoxide	BRL	0.00050									
Methoxychlor	BRL	0.0050									
Toxaphene	BRL	0.050									
Surr: Decachlorobiphenyl	0.004537	0	0.0050		90.7	30	121				
Surr: Tetrachloro-m-xylene	0.003658	0	0.0050		73.2	35.3	116				

Sample ID: LCS-177602-1	Client ID:	Units: mg/L	Prep Date: 06/19/2013	Run No: 246489							
SampleType: LCS	TestCode: PESTICIDES, TCLP SW1311/8081B	BatchID: 177602	Analysis Date: 06/20/2013	Seq No: 5164147							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Endrin	0.008320	0.0010	0.0080		104	52.9	130				
gamma-BHC	0.007179	0.00050	0.0080		89.7	45.4	121				
Heptachlor	0.007474	0.00050	0.0080		93.4	52.8	117				
Heptachlor epoxide	0.007981	0.00050	0.0080		99.8	57.2	117				
Methoxychlor	0.03528	0.0050	0.0300		118	57.3	118				
Surr: Decachlorobiphenyl	0.004864	0	0.0050		97.3	30	121				
Surr: Tetrachloro-m-xylene	0.003913	0	0.0050		78.3	35.3	116				

Sample ID: LCS-177602-2	Client ID:	Units: mg/L	Prep Date: 06/19/2013	Run No: 246489							
SampleType: LCS	TestCode: PESTICIDES, TCLP SW1311/8081B	BatchID: 177602	Analysis Date: 06/20/2013	Seq No: 5164154							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chlordane	0.03900	0.0050	0.0400		97.5	61.9	134				
Toxaphene	0.09611	0.050	0.0800		120	52.9	124				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
Project Name: Lafarge East Point
Workorder: 1306G56

ANALYTICAL QC SUMMARY REPORT

BatchID: 177602

Sample ID: LCS-177602-2	Client ID:	Units: mg/L	Prep Date: 06/19/2013	Run No: 246489							
SampleType: LCS	TestCode: PESTICIDES, TCLP SW1311/8081B	BatchID: 177602	Analysis Date: 06/20/2013	Seq No: 5164154							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Surr: Decachlorobiphenyl	0.004597	0	0.0050		91.9	30	121				
Surr: Tetrachloro-m-xylene	0.003656	0	0.0050		73.1	35.3	116				

Sample ID: 1306B32-001BMS-1	Client ID:	Units: mg/L	Prep Date: 06/19/2013	Run No: 246489							
SampleType: MS	TestCode: PESTICIDES, TCLP SW1311/8081B	BatchID: 177602	Analysis Date: 06/20/2013	Seq No: 5164163							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Endrin	0.008349	0.0010	0.0080		104	47.7	138				
gamma-BHC	0.006523	0.00050	0.0080		81.5	44.1	121				
Heptachlor	0.006295	0.00050	0.0080		78.7	45.8	121				
Heptachlor epoxide	0.007831	0.00050	0.0080		97.9	55.1	121				
Methoxychlor	0.03552	0.0050	0.0300		118	49.4	124				
Surr: Decachlorobiphenyl	0.004592	0	0.0050		91.8	30	121				
Surr: Tetrachloro-m-xylene	0.002418	0	0.0050		48.4	35.3	116				

Sample ID: 1306B32-001BMS-2	Client ID:	Units: mg/L	Prep Date: 06/19/2013	Run No: 246489							
SampleType: MS	TestCode: PESTICIDES, TCLP SW1311/8081B	BatchID: 177602	Analysis Date: 06/20/2013	Seq No: 5164166							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chlordane	0.03944	0.0050	0.0400		98.6	53.1	141				
Toxaphene	0.09713	0.050	0.0800		121	45.9	133				
Surr: Decachlorobiphenyl	0.004264	0	0.0050		85.3	30	121				
Surr: Tetrachloro-m-xylene	0.004054	0	0.0050		81.1	35.3	116				

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
BRL	Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S Spike Recovery outside limits due to matrix	

Client: Arcadis
Project Name: Lafarge East Point
Workorder: 1306G56

ANALYTICAL QC SUMMARY REPORT

BatchID: 177676

Sample ID: MB-177676	Client ID:	Units: mg/L	Prep Date: 06/20/2013	Run No: 246542							
SampleType: MBLK	TestCode: SEMIVOLATILES ORGANICS, TCLP SW1311/8270D	BatchID: 177676	Analysis Date: 06/20/2013	Seq No: 5165259							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,4-Dichlorobenzene	BRL	0.10									
2,4,5-Trichlorophenol	BRL	0.10									
2,4,6-Trichlorophenol	BRL	0.10									
2,4-Dinitrotoluene	BRL	0.10									
Cresols, Total	BRL	0.10									
Hexachlorobenzene	BRL	0.10									
Hexachlorobutadiene	BRL	0.10									
Hexachloroethane	BRL	0.10									
m,p-Cresol	BRL	0.10									
Nitrobenzene	BRL	0.10									
o-Cresol	BRL	0.10									
Pentachlorophenol	BRL	0.50									
Pyridine	BRL	0.10									
Surr: 2,4,6-Tribromophenol	0.9724	0	1.000		97.2	52.5	148				
Surr: 2-Fluorobiphenyl	0.5163	0	0.5000		103	55.4	129				
Surr: 2-Fluorophenol	0.9973	0	1.000		99.7	46.5	121				
Surr: 4-Terphenyl-d14	0.5426	0	0.5000		109	56.2	149				
Surr: Nitrobenzene-d5	0.4571	0	0.5000		91.4	53	124				
Surr: Phenol-d5	0.9191	0	1.000		91.9	41.7	121				

Sample ID: LCS-177676	Client ID:	Units: mg/L	Prep Date: 06/20/2013	Run No: 246542							
SampleType: LCS	TestCode: SEMIVOLATILES ORGANICS, TCLP SW1311/8270D	BatchID: 177676	Analysis Date: 06/20/2013	Seq No: 5165261							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,4-Dichlorobenzene	0.9333	0.10	1.000		93.3	69.4	118				
2,4,5-Trichlorophenol	1.139	0.10	1.000		114	65	136				
2,4,6-Trichlorophenol	1.106	0.10	1.000		111	76.9	133				
2,4-Dinitrotoluene	0.9953	0.10	1.000		99.5	71.6	128				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
 Project Name: Lafarge East Point
 Workorder: 1306G56

ANALYTICAL QC SUMMARY REPORT

BatchID: 177676

Sample ID: LCS-177676	Client ID:	Units: mg/L	Prep Date: 06/20/2013	Run No: 246542							
SampleType: LCS	TestCode: SEMIVOLATILES ORGANICS, TCLP SW1311/8270D	BatchID: 177676	Analysis Date: 06/20/2013	Seq No: 5165261							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Cresols, Total	3.193	0.10	3.000		106	67.7	123				
Hexachlorobenzene	0.9447	0.10	1.000		94.5	80.3	137				
Hexachlorobutadiene	0.9288	0.10	1.000		92.9	69.7	129				
Hexachloroethane	0.9139	0.10	1.000		91.4	67.1	117				
m,p-Cresol	2.123	0.10	2.000		106	63.6	124				
Nitrobenzene	1.031	0.10	1.000		103	73.4	123				
o-Cresol	1.070	0.10	1.000		107	73.2	123				
Pentachlorophenol	1.223	0.50	1.000		122	49.6	132				
Pyridine	0.3588	0.10	1.000		35.9	10	120				
Surr: 2,4,6-Tribromophenol	1.034	0	1.000		103	52.5	148				
Surr: 2-Fluorobiphenyl	0.5422	0	0.5000		108	55.4	129				
Surr: 2-Fluorophenol	1.052	0	1.000		105	46.5	121				
Surr: 4-Terphenyl-d14	0.5620	0	0.5000		112	56.2	149				
Surr: Nitrobenzene-d5	0.5615	0	0.5000		112	53	124				
Surr: Phenol-d5	0.9847	0	1.000		98.5	41.7	121				

Sample ID: 1306G56-001AMS	Client ID: ZONE 3D-SP1	Units: mg/L	Prep Date: 06/20/2013	Run No: 246576							
SampleType: MS	TestCode: SEMIVOLATILES ORGANICS, TCLP SW1311/8270D	BatchID: 177676	Analysis Date: 06/21/2013	Seq No: 5167457							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,4-Dichlorobenzene	0.9107	0.10	1.000		91.1	57.6	116				
2,4,5-Trichlorophenol	1.101	0.10	1.000		110	57.8	134				
2,4,6-Trichlorophenol	1.064	0.10	1.000		106	65.7	131				
2,4-Dinitrotoluene	0.9488	0.10	1.000		94.9	54.5	129				*
Cresols, Total	3.143	0.10	3.000		105	54.8	123				
Hexachlorobenzene	0.9087	0.10	1.000		90.9	61.7	137				*
Hexachlorobutadiene	0.8933	0.10	1.000		89.3	54.7	130				*
Hexachloroethane	0.8881	0.10	1.000		88.8	54.5	117				

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Arcadis
 Project Name: Lafarge East Point
 Workorder: 1306G56

ANALYTICAL QC SUMMARY REPORT

BatchID: 177676

Sample ID: 1306G56-001AMS	Client ID: ZONE 3D-SP1	Units: mg/L	Prep Date: 06/20/2013	Run No: 246576							
SampleType: MS	TestCode: SEMIVOLATILES ORGANICS, TCLP SW1311/8270D	BatchID: 177676	Analysis Date: 06/21/2013	Seq No: 5167457							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
m,p-Cresol	2.092	0.10	2.000		105	51.7	124				
Nitrobenzene	1.003	0.10	1.000		100	62.4	123				
o-Cresol	1.051	0.10	1.000		105	58.1	125				
Pentachlorophenol	1.212	0.50	1.000		121	40.7	137				
Pyridine	0.6131	0.10	1.000		61.3	10	120				
Surr: 2,4,6-Tribromophenol	0.9845	0	1.000		98.4	52.5	148				
Surr: 2-Fluorobiphenyl	0.5178	0	0.5000		104	55.4	129				
Surr: 2-Fluorophenol	1.029	0	1.000		103	46.5	121				
Surr: 4-Terphenyl-d14	0.5451	0	0.5000		109	56.2	149				
Surr: Nitrobenzene-d5	0.5423	0	0.5000		108	53	124				
Surr: Phenol-d5	0.9462	0	1.000		94.6	41.7	121				

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Analytical Environmental Services, Inc.

Date: 17-May-13

CLIENT: Arcadis
Project: Lafarge East Point
Lab ID: 1305868-001

Client Sample ID: ZONE 3A-SP2
Collection Date: 5/10/2013 10:15:00 AM
Matrix: SOIL

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
HERBICIDES, TCLP SW1311/8151A					(SW3510C)		Analyst: AK
2,4,5-TP (Silvex)	BRL	0.20		mg/L	176008	1	5/17/2013 4:43 PM
2,4-D	BRL	0.20		mg/L	176008	1	5/17/2013 4:43 PM
Surr: DCAA	86.8	45.5-148		%REC	176008	1	5/17/2013 4:43 PM
PESTICIDES, TCLP SW1311/8081B					(SW3510C)		Analyst: KDD
Chlordane	BRL	0.0050		mg/L	176246	1	5/17/2013 2:17 PM
Endrin	BRL	0.0010		mg/L	176246	1	5/17/2013 2:17 PM
gamma-BHC	BRL	0.00050		mg/L	176246	1	5/17/2013 2:17 PM
Heptachlor	BRL	0.00050		mg/L	176246	1	5/17/2013 2:17 PM
Heptachlor epoxide	BRL	0.00050		mg/L	176246	1	5/17/2013 2:17 PM
Methoxychlor	BRL	0.0050		mg/L	176246	1	5/17/2013 2:17 PM
Toxaphene	BRL	0.050		mg/L	176246	1	5/17/2013 2:17 PM
Surr: Decachlorobiphenyl	91.3	30-121		%REC	176246	1	5/17/2013 2:17 PM
Surr: Tetrachloro-m-xylene	84.3	35.3-116		%REC	176246	1	5/17/2013 2:17 PM
MERCURY, TCLP SW1311/7470A					(SW7470A)		Analyst: TAA
Mercury	BRL	0.00400		mg/L	175971	1	5/13/2013 3:00 PM
ICP METALS, TCLP SW1311/6010C					(SW3010A)		Analyst: MCO
Arsenic	BRL	0.250		mg/L	175975	1	5/13/2013 1:19 PM
Barium	0.780	0.500		mg/L	175975	1	5/13/2013 1:19 PM
Cadmium	BRL	0.0250		mg/L	175975	1	5/13/2013 1:19 PM
Chromium	BRL	0.0500		mg/L	175975	1	5/13/2013 1:19 PM
Lead	0.523	0.0500		mg/L	175975	1	5/13/2013 1:19 PM
Selenium	BRL	0.100		mg/L	175975	1	5/13/2013 1:19 PM
Silver	BRL	0.0250		mg/L	175975	1	5/13/2013 1:19 PM
SEMIVOLATILES ORGANICS, TCLP SW1311/8270D					(SW3510C)		Analyst: YH
1,4-Dichlorobenzene	BRL	0.10		mg/L	176125	1	5/17/2013 2:03 PM
2,4,5-Trichlorophenol	BRL	0.10		mg/L	176125	1	5/17/2013 2:03 PM
2,4,6-Trichlorophenol	BRL	0.10		mg/L	176125	1	5/17/2013 2:03 PM
2,4-Dinitrotoluene	BRL	0.10		mg/L	176125	1	5/17/2013 2:03 PM
Hexachlorobenzene	BRL	0.10		mg/L	176125	1	5/17/2013 2:03 PM
Hexachlorobutadiene	BRL	0.10		mg/L	176125	1	5/17/2013 2:03 PM
Hexachloroethane	BRL	0.10		mg/L	176125	1	5/17/2013 2:03 PM
m,p-Cresol	BRL	0.10		mg/L	176125	1	5/17/2013 2:03 PM
Nitrobenzene	BRL	0.10		mg/L	176125	1	5/17/2013 2:03 PM
o-Cresol	BRL	0.10		mg/L	176125	1	5/17/2013 2:03 PM
Pentachlorophenol	BRL	0.50		mg/L	176125	1	5/17/2013 2:03 PM
Pyridine	BRL	0.10		mg/L	176125	1	5/17/2013 2:03 PM
Cresols, Total	BRL	0.10		mg/L	176125	1	5/17/2013 2:03 PM
Surr: 2,4,6-Tribromophenol	86.8	52.5-148		%REC	176125	1	5/17/2013 2:03 PM
Surr: 2-Fluorobiphenyl	89.2	55.4-129		%REC	176125	1	5/17/2013 2:03 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank	<	Less than Result value
>	Greater than Result value		

Analytical Environmental Services, Inc.

Date: 17-May-13

CLIENT: Arcadis
Project: Lafarge East Point
Lab ID: 1305868-001

Client Sample ID: ZONE 3A-SP2
Collection Date: 5/10/2013 10:15:00 AM
Matrix: SOIL

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
SEMIVOLATILES ORGANICS, TCLP		SW1311/8270D			(SW3510C)		Analyst: YH
Surr: 2-Fluorophenol	100	46.5-121		%REC	176125	1	5/17/2013 2:03 PM
Surr: 4-Terphenyl-d14	108	56.2-149		%REC	176125	1	5/17/2013 2:03 PM
Surr: Nitrobenzene-d5	90.8	53-124		%REC	176125	1	5/17/2013 2:03 PM
Surr: Phenol-d5	91.4	41.7-121		%REC	176125	1	5/17/2013 2:03 PM
POLYAROMATIC HYDROCARBONS		SW8270D			(SW3510C)		Analyst: EI
Naphthalene	BRL	100		ug/L	175970	1	5/13/2013 12:19 PM
Acenaphthylene	BRL	100		ug/L	175970	1	5/13/2013 12:19 PM
1-Methylnaphthalene	BRL	100		ug/L	175970	1	5/13/2013 12:19 PM
2-Methylnaphthalene	BRL	100		ug/L	175970	1	5/13/2013 12:19 PM
Acenaphthene	BRL	100		ug/L	175970	1	5/13/2013 12:19 PM
Fluorene	BRL	100		ug/L	175970	1	5/13/2013 12:19 PM
Phenanthrene	BRL	100		ug/L	175970	1	5/13/2013 12:19 PM
Anthracene	BRL	100		ug/L	175970	1	5/13/2013 12:19 PM
Fluoranthene	BRL	100		ug/L	175970	1	5/13/2013 12:19 PM
Pyrene	BRL	100		ug/L	175970	1	5/13/2013 12:19 PM
Benz(a)anthracene	BRL	100		ug/L	175970	1	5/13/2013 12:19 PM
Chrysene	BRL	100		ug/L	175970	1	5/13/2013 12:19 PM
Benzo(b)fluoranthene	BRL	100		ug/L	175970	1	5/13/2013 12:19 PM
Benzo(k)fluoranthene	BRL	100		ug/L	175970	1	5/13/2013 12:19 PM
Benzo(a)pyrene	BRL	100		ug/L	175970	1	5/13/2013 12:19 PM
Dibenz(a,h)anthracene	BRL	100		ug/L	175970	1	5/13/2013 12:19 PM
Benzo(g,h,i)perylene	BRL	100		ug/L	175970	1	5/13/2013 12:19 PM
Indeno(1,2,3-cd)pyrene	BRL	100		ug/L	175970	1	5/13/2013 12:19 PM
Surr: Nitrobenzene-d5	80.7	35-118		%REC	175970	1	5/13/2013 12:19 PM
Surr: 2-Fluorobiphenyl	68.9	40.6-116		%REC	175970	1	5/13/2013 12:19 PM
Surr: 4-Terphenyl-d14	90.7	51.8-124		%REC	175970	1	5/13/2013 12:19 PM
VOLATILES, TCLP		SW1311/8260B			(SW5030B)		Analyst: AR
1,1-Dichloroethene	BRL	0.10		mg/L	176017	20	5/13/2013 1:43 PM
1,2-Dichloroethane	BRL	0.10		mg/L	176017	20	5/13/2013 1:43 PM
2-Butanone	BRL	0.20		mg/L	176017	20	5/13/2013 1:43 PM
Benzene	BRL	0.10		mg/L	176017	20	5/13/2013 1:43 PM
Carbon tetrachloride	BRL	0.10		mg/L	176017	20	5/13/2013 1:43 PM
Chlorobenzene	BRL	0.10		mg/L	176017	20	5/13/2013 1:43 PM
Chloroform	BRL	0.10		mg/L	176017	20	5/13/2013 1:43 PM
Tetrachloroethene	BRL	0.10		mg/L	176017	20	5/13/2013 1:43 PM
Trichloroethene	0.64	0.10	*	mg/L	176017	20	5/13/2013 1:43 PM
Vinyl chloride	BRL	0.040		mg/L	176017	20	5/13/2013 1:43 PM
Surr: 4-Bromofluorobenzene	99.3	65-129		%REC	176017	20	5/13/2013 1:43 PM
Surr: Dibromofluoromethane	93.5	72.3-129		%REC	176017	20	5/13/2013 1:43 PM
Surr: Toluene-d8	97.0	74.2-118		%REC	176017	20	5/13/2013 1:43 PM

Qualifiers: * Value exceeds Maximum Contaminant Level E Estimated (Value above quantitation range)
 BRL Below Reporting Limit S Spike Recovery outside limits due to matrix
 H Holding times for preparation or analysis exceeded Narr See Case Narrative
 N Analyte not NELAC certified NC Not Confirmed
 B Analyte detected in the associated Method Blank < Less than Result value
 > Greater than Result value

Analytical Environmental Services, Inc.

Date: 17-May-13

CLIENT: Arcadis

Client Sample ID: ZONE 3A-SP2

Project: Lafarge East Point

Collection Date: 5/10/2013 10:15:00 AM

Lab ID: 1305868-001

Matrix: SOIL

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
-----------------	---------------	----------------------------	-------------	--------------	----------------	----------------------------	----------------------

Qualifiers:	*	Value exceeds Maximum Contaminant Level			E	Estimated (Value above quantitation range)	
	BRL	Below Reporting Limit			S	Spike Recovery outside limits due to matrix	
	H	Holding times for preparation or analysis exceeded			Narr	See Case Narrative	
	N	Analyte not NELAC certified			NC	Not Confirmed	
	B	Analyte detected in the associated Method Blank			<	Less than Result value	
	>	Greater than Result value					

Analytical Environmental Services, Inc.

Date: 17-May-13

CLIENT: Arcadis
Project: Lafarge East Point
Lab ID: 1305868-002

Client Sample ID: DRILLING/TRENCHING-SP3
Collection Date: 5/10/2013 10:20:00 AM
Matrix: SOIL

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
HERBICIDES, TCLP SW1311/8151A					(SW3510C)		Analyst: AK
2,4,5-TP (Silvex)	BRL	0.20		mg/L	176008	1	5/17/2013 5:12 PM
2,4-D	BRL	0.20		mg/L	176008	1	5/17/2013 5:12 PM
Surr: DCAA	75.5	45.5-148		%REC	176008	1	5/17/2013 5:12 PM
PESTICIDES, TCLP SW1311/8081B					(SW3510C)		Analyst: KDD
Chlordane	BRL	0.0050		mg/L	176246	1	5/17/2013 2:51 PM
Endrin	BRL	0.0010		mg/L	176246	1	5/17/2013 2:51 PM
gamma-BHC	BRL	0.00050		mg/L	176246	1	5/17/2013 2:51 PM
Heptachlor	BRL	0.00050		mg/L	176246	1	5/17/2013 2:51 PM
Heptachlor epoxide	BRL	0.00050		mg/L	176246	1	5/17/2013 2:51 PM
Methoxychlor	BRL	0.0050		mg/L	176246	1	5/17/2013 2:51 PM
Toxaphene	BRL	0.050		mg/L	176246	1	5/17/2013 2:51 PM
Surr: Decachlorobiphenyl	81.1	30-121		%REC	176246	1	5/17/2013 2:51 PM
Surr: Tetrachloro-m-xylene	67.2	35.3-116		%REC	176246	1	5/17/2013 2:51 PM
MERCURY, TCLP SW1311/7470A					(SW7470A)		Analyst: TAA
Mercury	BRL	0.00400		mg/L	175971	1	5/13/2013 3:02 PM
ICP METALS, TCLP SW1311/6010C					(SW3010A)		Analyst: MCO
Arsenic	BRL	0.250		mg/L	175975	1	5/13/2013 1:49 PM
Barium	1.22	0.500		mg/L	175975	1	5/13/2013 1:49 PM
Cadmium	BRL	0.0250		mg/L	175975	1	5/13/2013 1:49 PM
Chromium	BRL	0.0500		mg/L	175975	1	5/13/2013 1:49 PM
Lead	2.71	0.0500		mg/L	175975	1	5/13/2013 1:49 PM
Selenium	BRL	0.100		mg/L	175975	1	5/13/2013 1:49 PM
Silver	BRL	0.0250		mg/L	175975	1	5/13/2013 1:49 PM
SEMIVOLATILES ORGANICS, TCLP SW1311/8270D					(SW3510C)		Analyst: YH
1,4-Dichlorobenzene	BRL	0.10		mg/L	176125	1	5/17/2013 2:29 PM
2,4,5-Trichlorophenol	BRL	0.10		mg/L	176125	1	5/17/2013 2:29 PM
2,4,6-Trichlorophenol	BRL	0.10		mg/L	176125	1	5/17/2013 2:29 PM
2,4-Dinitrotoluene	BRL	0.10		mg/L	176125	1	5/17/2013 2:29 PM
Hexachlorobenzene	BRL	0.10		mg/L	176125	1	5/17/2013 2:29 PM
Hexachlorobutadiene	BRL	0.10		mg/L	176125	1	5/17/2013 2:29 PM
Hexachloroethane	BRL	0.10		mg/L	176125	1	5/17/2013 2:29 PM
m,p-Cresol	BRL	0.10		mg/L	176125	1	5/17/2013 2:29 PM
Nitrobenzene	BRL	0.10		mg/L	176125	1	5/17/2013 2:29 PM
o-Cresol	BRL	0.10		mg/L	176125	1	5/17/2013 2:29 PM
Pentachlorophenol	BRL	0.50		mg/L	176125	1	5/17/2013 2:29 PM
Pyridine	BRL	0.10		mg/L	176125	1	5/17/2013 2:29 PM
Cresols, Total	BRL	0.10		mg/L	176125	1	5/17/2013 2:29 PM
Surr: 2,4,6-Tribromophenol	85.5	52.5-148		%REC	176125	1	5/17/2013 2:29 PM
Surr: 2-Fluorobiphenyl	85.3	55.4-129		%REC	176125	1	5/17/2013 2:29 PM

Qualifiers:	*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
	BRL	Below Reporting Limit	S	Spike Recovery outside limits due to matrix
	H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
	N	Analyte not NELAC certified	NC	Not Confirmed
	B	Analyte detected in the associated Method Blank	<	Less than Result value
	>	Greater than Result value		

Analytical Environmental Services, Inc.

Date: 17-May-13

CLIENT: Arcadis
Project: Lafarge East Point
Lab ID: 1305868-002

Client Sample ID: DRILLING/TRENCHING-SP3
Collection Date: 5/10/2013 10:20:00 AM
Matrix: SOIL

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
SEMIVOLATILES ORGANICS, TCLP		SW1311/8270D			(SW3510C)		Analyst: YH
Surr: 2-Fluorophenol	92.9	46.5-121		%REC	176125	1	5/17/2013 2:29 PM
Surr: 4-Terphenyl-d14	104	56.2-149		%REC	176125	1	5/17/2013 2:29 PM
Surr: Nitrobenzene-d5	87.5	53-124		%REC	176125	1	5/17/2013 2:29 PM
Surr: Phenol-d5	87.5	41.7-121		%REC	176125	1	5/17/2013 2:29 PM
POLYAROMATIC HYDROCARBONS		SW8270D			(SW3510C)		Analyst: EI
Naphthalene	BRL	100		ug/L	175970	1	5/13/2013 12:51 PM
Acenaphthylene	BRL	100		ug/L	175970	1	5/13/2013 12:51 PM
1-Methylnaphthalene	BRL	100		ug/L	175970	1	5/13/2013 12:51 PM
2-Methylnaphthalene	BRL	100		ug/L	175970	1	5/13/2013 12:51 PM
Acenaphthene	BRL	100		ug/L	175970	1	5/13/2013 12:51 PM
Fluorene	BRL	100		ug/L	175970	1	5/13/2013 12:51 PM
Phenanthrene	BRL	100		ug/L	175970	1	5/13/2013 12:51 PM
Anthracene	BRL	100		ug/L	175970	1	5/13/2013 12:51 PM
Fluoranthene	BRL	100		ug/L	175970	1	5/13/2013 12:51 PM
Pyrene	BRL	100		ug/L	175970	1	5/13/2013 12:51 PM
Benz(a)anthracene	BRL	100		ug/L	175970	1	5/13/2013 12:51 PM
Chrysene	BRL	100		ug/L	175970	1	5/13/2013 12:51 PM
Benzo(b)fluoranthene	BRL	100		ug/L	175970	1	5/13/2013 12:51 PM
Benzo(k)fluoranthene	BRL	100		ug/L	175970	1	5/13/2013 12:51 PM
Benzo(a)pyrene	BRL	100		ug/L	175970	1	5/13/2013 12:51 PM
Dibenz(a,h)anthracene	BRL	100		ug/L	175970	1	5/13/2013 12:51 PM
Benzo(g,h,i)perylene	BRL	100		ug/L	175970	1	5/13/2013 12:51 PM
Indeno(1,2,3-cd)pyrene	BRL	100		ug/L	175970	1	5/13/2013 12:51 PM
Surr: Nitrobenzene-d5	89.2	35-118		%REC	175970	1	5/13/2013 12:51 PM
Surr: 2-Fluorobiphenyl	80.5	40.6-116		%REC	175970	1	5/13/2013 12:51 PM
Surr: 4-Terphenyl-d14	104	51.8-124		%REC	175970	1	5/13/2013 12:51 PM
VOLATILES, TCLP		SW1311/8260B			(SW5030B)		Analyst: AR
1,1-Dichloroethene	BRL	0.10		mg/L	176017	20	5/13/2013 2:09 PM
1,2-Dichloroethane	BRL	0.10		mg/L	176017	20	5/13/2013 2:09 PM
2-Butanone	BRL	0.20		mg/L	176017	20	5/13/2013 2:09 PM
Benzene	BRL	0.10		mg/L	176017	20	5/13/2013 2:09 PM
Carbon tetrachloride	BRL	0.10		mg/L	176017	20	5/13/2013 2:09 PM
Chlorobenzene	BRL	0.10		mg/L	176017	20	5/13/2013 2:09 PM
Chloroform	BRL	0.10		mg/L	176017	20	5/13/2013 2:09 PM
Tetrachloroethene	BRL	0.10		mg/L	176017	20	5/13/2013 2:09 PM
Trichloroethene	BRL	0.10		mg/L	176017	20	5/13/2013 2:09 PM
Vinyl chloride	BRL	0.040		mg/L	176017	20	5/13/2013 2:09 PM
Surr: 4-Bromofluorobenzene	94.1	65-129		%REC	176017	20	5/13/2013 2:09 PM
Surr: Dibromofluoromethane	100	72.3-129		%REC	176017	20	5/13/2013 2:09 PM
Surr: Toluene-d8	99.2	74.2-118		%REC	176017	20	5/13/2013 2:09 PM

Qualifiers:	*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
	BRL	Below Reporting Limit	S	Spike Recovery outside limits due to matrix
	H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
	N	Analyte not NELAC certified	NC	Not Confirmed
	B	Analyte detected in the associated Method Blank	<	Less than Result value
	>	Greater than Result value		

Analytical Environmental Services, Inc.

Date: 17-May-13

CLIENT: Arcadis
Project: Lafarge East Point
Lab ID: 1305868-002

Client Sample ID: DRILLING/TRENCHING-SP3
Collection Date: 5/10/2013 10:20:00 AM
Matrix: SOIL

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
-----------------	---------------	------------------------	-------------	--------------	----------------	------------------------	----------------------

Qualifiers:	*	Value exceeds Maximum Contaminant Level			E	Estimated (Value above quantitation range)	
	BRL	Below Reporting Limit			S	Spike Recovery outside limits due to matrix	
	H	Holding times for preparation or analysis exceeded			Narr	See Case Narrative	
	N	Analyte not NELAC certified			NC	Not Confirmed	
	B	Analyte detected in the associated Method Blank			<	Less than Result value	
	>	Greater than Result value					



May 31, 2013

Peter Cornais
Arcadis
2081 Vista Parkway, Suite 200
West Palm Beach FL 33411

TEL: (850) 445-0829
FAX:

RE: Lafarge EP

Dear Peter Cornais:

Order No: 1305C90

Analytical Environmental Services, Inc. received 1 samples on 5/15/2013 2:45:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/12-06/30/13.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/13.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Chantelle Kanhai
Project Manager

Client: Arcadis	Client Sample ID: ZONE 3a-SP-2
Project Name: Lafarge EP	Collection Date: 5/15/2013 1:50:00 PM
Lab ID: 1305C90-001	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL-SEMIVOLATILE ORGANICS SW8270D		(SW3550C)						
1,1'-Biphenyl	BRL	390		ug/Kg-dry	176170	1	05/16/2013 16:33	YH
2,4,5-Trichlorophenol	BRL	2000		ug/Kg-dry	176170	1	05/16/2013 16:33	YH
2,4,6-Trichlorophenol	BRL	390		ug/Kg-dry	176170	1	05/16/2013 16:33	YH
2,4-Dichlorophenol	BRL	390		ug/Kg-dry	176170	1	05/16/2013 16:33	YH
2,4-Dimethylphenol	BRL	390		ug/Kg-dry	176170	1	05/16/2013 16:33	YH
2,4-Dinitrophenol	BRL	2000		ug/Kg-dry	176170	1	05/16/2013 16:33	YH
2,4-Dinitrotoluene	BRL	390		ug/Kg-dry	176170	1	05/16/2013 16:33	YH
2,6-Dinitrotoluene	BRL	390		ug/Kg-dry	176170	1	05/16/2013 16:33	YH
2-Chloronaphthalene	BRL	390		ug/Kg-dry	176170	1	05/16/2013 16:33	YH
2-Chlorophenol	BRL	390		ug/Kg-dry	176170	1	05/16/2013 16:33	YH
2-Methylnaphthalene	BRL	390		ug/Kg-dry	176170	1	05/16/2013 16:33	YH
2-Methylphenol	BRL	390		ug/Kg-dry	176170	1	05/16/2013 16:33	YH
2-Nitroaniline	BRL	2000		ug/Kg-dry	176170	1	05/16/2013 16:33	YH
2-Nitrophenol	BRL	390		ug/Kg-dry	176170	1	05/16/2013 16:33	YH
3,3'-Dichlorobenzidine	BRL	800		ug/Kg-dry	176170	1	05/16/2013 16:33	YH
3-Nitroaniline	BRL	2000		ug/Kg-dry	176170	1	05/16/2013 16:33	YH
4,6-Dinitro-2-methylphenol	BRL	2000		ug/Kg-dry	176170	1	05/16/2013 16:33	YH
4-Bromophenyl phenyl ether	BRL	390		ug/Kg-dry	176170	1	05/16/2013 16:33	YH
4-Chloro-3-methylphenol	BRL	390		ug/Kg-dry	176170	1	05/16/2013 16:33	YH
4-Chloroaniline	BRL	390		ug/Kg-dry	176170	1	05/16/2013 16:33	YH
4-Chlorophenyl phenyl ether	BRL	390		ug/Kg-dry	176170	1	05/16/2013 16:33	YH
4-Methylphenol	BRL	390		ug/Kg-dry	176170	1	05/16/2013 16:33	YH
4-Nitroaniline	BRL	2000		ug/Kg-dry	176170	1	05/16/2013 16:33	YH
4-Nitrophenol	BRL	2000		ug/Kg-dry	176170	1	05/16/2013 16:33	YH
Acenaphthene	BRL	390		ug/Kg-dry	176170	1	05/16/2013 16:33	YH
Acenaphthylene	BRL	390		ug/Kg-dry	176170	1	05/16/2013 16:33	YH
Acetophenone	BRL	390		ug/Kg-dry	176170	1	05/16/2013 16:33	YH
Anthracene	BRL	390		ug/Kg-dry	176170	1	05/16/2013 16:33	YH
Atrazine	BRL	390		ug/Kg-dry	176170	1	05/16/2013 16:33	YH
Benz(a)anthracene	BRL	390		ug/Kg-dry	176170	1	05/16/2013 16:33	YH
Benzaldehyde	BRL	390		ug/Kg-dry	176170	1	05/16/2013 16:33	YH
Benzo(a)pyrene	BRL	390		ug/Kg-dry	176170	1	05/16/2013 16:33	YH
Benzo(b)fluoranthene	BRL	390		ug/Kg-dry	176170	1	05/16/2013 16:33	YH
Benzo(g,h,i)perylene	BRL	390		ug/Kg-dry	176170	1	05/16/2013 16:33	YH
Benzo(k)fluoranthene	BRL	390		ug/Kg-dry	176170	1	05/16/2013 16:33	YH
Bis(2-chloroethoxy)methane	BRL	390		ug/Kg-dry	176170	1	05/16/2013 16:33	YH
Bis(2-chloroethyl)ether	BRL	390		ug/Kg-dry	176170	1	05/16/2013 16:33	YH
Bis(2-chloroisopropyl)ether	BRL	390		ug/Kg-dry	176170	1	05/16/2013 16:33	YH
Bis(2-ethylhexyl)phthalate	BRL	390		ug/Kg-dry	176170	1	05/16/2013 16:33	YH
Butyl benzyl phthalate	BRL	390		ug/Kg-dry	176170	1	05/16/2013 16:33	YH
Caprolactam	BRL	390		ug/Kg-dry	176170	1	05/16/2013 16:33	YH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: ZONE 3a-SP-2
Project Name: Lafarge EP	Collection Date: 5/15/2013 1:50:00 PM
Lab ID: 1305C90-001	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL-SEMIVOLATILE ORGANICS SW8270D		(SW3550C)						
Carbazole	BRL	390		ug/Kg-dry	176170	1	05/16/2013 16:33	YH
Chrysene	BRL	390		ug/Kg-dry	176170	1	05/16/2013 16:33	YH
Di-n-butyl phthalate	BRL	390		ug/Kg-dry	176170	1	05/16/2013 16:33	YH
Di-n-octyl phthalate	BRL	390		ug/Kg-dry	176170	1	05/16/2013 16:33	YH
Dibenz(a,h)anthracene	BRL	390		ug/Kg-dry	176170	1	05/16/2013 16:33	YH
Dibenzofuran	BRL	390		ug/Kg-dry	176170	1	05/16/2013 16:33	YH
Diethyl phthalate	BRL	390		ug/Kg-dry	176170	1	05/16/2013 16:33	YH
Dimethyl phthalate	BRL	390		ug/Kg-dry	176170	1	05/16/2013 16:33	YH
Fluoranthene	BRL	390		ug/Kg-dry	176170	1	05/16/2013 16:33	YH
Fluorene	BRL	390		ug/Kg-dry	176170	1	05/16/2013 16:33	YH
Hexachlorobenzene	BRL	390		ug/Kg-dry	176170	1	05/16/2013 16:33	YH
Hexachlorobutadiene	BRL	390		ug/Kg-dry	176170	1	05/16/2013 16:33	YH
Hexachlorocyclopentadiene	BRL	780		ug/Kg-dry	176170	1	05/16/2013 16:33	YH
Hexachloroethane	BRL	390		ug/Kg-dry	176170	1	05/16/2013 16:33	YH
Indeno(1,2,3-cd)pyrene	BRL	390		ug/Kg-dry	176170	1	05/16/2013 16:33	YH
Isophorone	BRL	390		ug/Kg-dry	176170	1	05/16/2013 16:33	YH
N-Nitrosodi-n-propylamine	BRL	390		ug/Kg-dry	176170	1	05/16/2013 16:33	YH
N-Nitrosodiphenylamine	BRL	390		ug/Kg-dry	176170	1	05/16/2013 16:33	YH
Naphthalene	BRL	390		ug/Kg-dry	176170	1	05/16/2013 16:33	YH
Nitrobenzene	BRL	390		ug/Kg-dry	176170	1	05/16/2013 16:33	YH
Pentachlorophenol	BRL	2000		ug/Kg-dry	176170	1	05/16/2013 16:33	YH
Phenanthrene	BRL	390		ug/Kg-dry	176170	1	05/16/2013 16:33	YH
Phenol	BRL	390		ug/Kg-dry	176170	1	05/16/2013 16:33	YH
Pyrene	BRL	390		ug/Kg-dry	176170	1	05/16/2013 16:33	YH
Surr: 2,4,6-Tribromophenol	72.5	40.4-136		%REC	176170	1	05/16/2013 16:33	YH
Surr: 2-Fluorobiphenyl	77.3	46.1-120		%REC	176170	1	05/16/2013 16:33	YH
Surr: 2-Fluorophenol	64.9	35.8-120		%REC	176170	1	05/16/2013 16:33	YH
Surr: 4-Terphenyl-d14	81.5	50.2-134		%REC	176170	1	05/16/2013 16:33	YH
Surr: Nitrobenzene-d5	64.1	38-120		%REC	176170	1	05/16/2013 16:33	YH
Surr: Phenol-d5	62.1	40-120		%REC	176170	1	05/16/2013 16:33	YH
TCL VOLATILE ORGANICS SW8260B		(SW5035)						
1,1,1-Trichloroethane	BRL	3.5		ug/Kg-dry	176193	1	05/15/2013 20:29	MD
1,1,2,2-Tetrachloroethane	BRL	3.5		ug/Kg-dry	176193	1	05/15/2013 20:29	MD
1,1,2-Trichloroethane	BRL	3.5		ug/Kg-dry	176193	1	05/15/2013 20:29	MD
1,1-Dichloroethane	BRL	3.5		ug/Kg-dry	176193	1	05/15/2013 20:29	MD
1,1-Dichloroethene	BRL	3.5		ug/Kg-dry	176193	1	05/15/2013 20:29	MD
1,2,4-Trichlorobenzene	BRL	3.5		ug/Kg-dry	176193	1	05/15/2013 20:29	MD
1,2-Dibromo-3-chloropropane	BRL	3.5		ug/Kg-dry	176193	1	05/15/2013 20:29	MD
1,2-Dibromoethane	BRL	3.5		ug/Kg-dry	176193	1	05/15/2013 20:29	MD
1,2-Dichlorobenzene	BRL	3.5		ug/Kg-dry	176193	1	05/15/2013 20:29	MD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: ZONE 3a-SP-2
Project Name: Lafarge EP	Collection Date: 5/15/2013 1:50:00 PM
Lab ID: 1305C90-001	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,2-Dichloroethane	BRL	3.5		ug/Kg-dry	176193	1	05/15/2013 20:29	MD
1,2-Dichloropropane	BRL	3.5		ug/Kg-dry	176193	1	05/15/2013 20:29	MD
1,3-Dichlorobenzene	BRL	3.5		ug/Kg-dry	176193	1	05/15/2013 20:29	MD
1,4-Dichlorobenzene	BRL	3.5		ug/Kg-dry	176193	1	05/15/2013 20:29	MD
2-Butanone	BRL	35		ug/Kg-dry	176193	1	05/15/2013 20:29	MD
2-Hexanone	BRL	6.9		ug/Kg-dry	176193	1	05/15/2013 20:29	MD
4-Methyl-2-pentanone	BRL	6.9		ug/Kg-dry	176193	1	05/15/2013 20:29	MD
Acetone	BRL	69		ug/Kg-dry	176193	1	05/15/2013 20:29	MD
Benzene	12	3.5		ug/Kg-dry	176193	1	05/15/2013 20:29	MD
Bromodichloromethane	BRL	3.5		ug/Kg-dry	176193	1	05/15/2013 20:29	MD
Bromoform	BRL	3.5		ug/Kg-dry	176193	1	05/15/2013 20:29	MD
Bromomethane	BRL	3.5		ug/Kg-dry	176193	1	05/15/2013 20:29	MD
Carbon disulfide	BRL	6.9		ug/Kg-dry	176193	1	05/15/2013 20:29	MD
Carbon tetrachloride	BRL	3.5		ug/Kg-dry	176193	1	05/15/2013 20:29	MD
Chlorobenzene	BRL	3.5		ug/Kg-dry	176193	1	05/15/2013 20:29	MD
Chloroethane	BRL	6.9		ug/Kg-dry	176193	1	05/15/2013 20:29	MD
Chloroform	BRL	3.5		ug/Kg-dry	176193	1	05/15/2013 20:29	MD
Chloromethane	BRL	6.9		ug/Kg-dry	176193	1	05/15/2013 20:29	MD
cis-1,2-Dichloroethene	1300	190		ug/Kg-dry	176199	50	05/16/2013 02:43	YT
cis-1,3-Dichloropropene	BRL	3.5		ug/Kg-dry	176193	1	05/15/2013 20:29	MD
Cyclohexane	BRL	3.5		ug/Kg-dry	176193	1	05/15/2013 20:29	MD
Dibromochloromethane	BRL	3.5		ug/Kg-dry	176193	1	05/15/2013 20:29	MD
Dichlorodifluoromethane	BRL	6.9		ug/Kg-dry	176193	1	05/15/2013 20:29	MD
Ethylbenzene	770	190		ug/Kg-dry	176199	50	05/16/2013 02:43	YT
Freon-113	BRL	6.9		ug/Kg-dry	176193	1	05/15/2013 20:29	MD
Isopropylbenzene	4.4	3.5		ug/Kg-dry	176193	1	05/15/2013 20:29	MD
m,p-Xylene	1100	190		ug/Kg-dry	176199	50	05/16/2013 02:43	YT
Methyl acetate	BRL	3.5		ug/Kg-dry	176193	1	05/15/2013 20:29	MD
Methyl tert-butyl ether	BRL	3.5		ug/Kg-dry	176193	1	05/15/2013 20:29	MD
Methylcyclohexane	19	3.5		ug/Kg-dry	176193	1	05/15/2013 20:29	MD
Methylene chloride	BRL	10		ug/Kg-dry	176193	1	05/15/2013 20:29	MD
o-Xylene	1500	190		ug/Kg-dry	176199	50	05/16/2013 02:43	YT
Styrene	BRL	3.5		ug/Kg-dry	176193	1	05/15/2013 20:29	MD
Tetrachloroethene	8.7	3.5		ug/Kg-dry	176193	1	05/15/2013 20:29	MD
Toluene	2400	190		ug/Kg-dry	176199	50	05/16/2013 02:43	YT
trans-1,2-Dichloroethene	BRL	3.5		ug/Kg-dry	176193	1	05/15/2013 20:29	MD
trans-1,3-Dichloropropene	BRL	3.5		ug/Kg-dry	176193	1	05/15/2013 20:29	MD
Trichloroethene	37000	1900		ug/Kg-dry	176199	500	05/16/2013 11:48	YT
Trichlorofluoromethane	BRL	3.5		ug/Kg-dry	176193	1	05/15/2013 20:29	MD
Vinyl chloride	BRL	6.9		ug/Kg-dry	176193	1	05/15/2013 20:29	MD
Surr: 4-Bromofluorobenzene	93.8	63.8-133		%REC	176199	500	05/16/2013 11:48	YT

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: ZONE 3a-SP-2
Project Name: Lafarge EP	Collection Date: 5/15/2013 1:50:00 PM
Lab ID: 1305C90-001	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5035)			
Surr: 4-Bromofluorobenzene	103	63.8-133		%REC	176199	50	05/16/2013 02:43	YT
Surr: 4-Bromofluorobenzene	74.5	63.8-133		%REC	176193	1	05/15/2013 20:29	MD
Surr: Dibromofluoromethane	105	74.3-130		%REC	176199	50	05/16/2013 02:43	YT
Surr: Dibromofluoromethane	108	74.3-130		%REC	176199	500	05/16/2013 11:48	YT
Surr: Dibromofluoromethane	88.1	74.3-130		%REC	176193	1	05/15/2013 20:29	MD
Surr: Toluene-d8	106	72.8-122		%REC	176199	50	05/16/2013 02:43	YT
Surr: Toluene-d8	109	72.8-122		%REC	176199	500	05/16/2013 11:48	YT
Surr: Toluene-d8	105	72.8-122		%REC	176193	1	05/15/2013 20:29	MD
PERCENT MOISTURE D2216								
Percent Moisture	16.0	0		wt%	R244181	1	05/16/2013 10:30	CG

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Arcadis Work Order Number 1305C90

Checklist completed by [Signature] Date 5/15/13

Carrier name: FedEx UPS Courier Client US Mail Other

Shipping container/cooler in good condition? Yes No Not Present
Custody seals intact on shipping container/cooler? Yes No Not Present
Custody seals intact on sample bottles? Yes No Not Present

Container/Temp Blank temperature in compliance? (4°C±2)* Yes No

Cooler #1 3.1 Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler #5 _____ Cooler #6 _____

Chain of custody present? Yes No
Chain of custody signed when relinquished and received? Yes No
Chain of custody agrees with sample labels? Yes No
Samples in proper container/bottle? Yes No
Sample containers intact? Yes No
Sufficient sample volume for indicated test? Yes No
All samples received within holding time? Yes No
Was TAT marked on the COC? Yes No
Proceed with Standard TAT as per project history? Yes No Not Applicable
Water - VOA vials have zero headspace? No VOA vials submitted Yes No
Water - pH acceptable upon receipt? Yes No Not Applicable

Sample Condition: Good Adjusted? _____ Other(Explain) _____ Checked by _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes No

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

Client: Arcadis
 Project Name: Lafarge EP
 Workorder: 1305C90

ANALYTICAL QC SUMMARY REPORT

BatchID: 176170

Sample ID: MB-176170	Client ID:	Units: ug/Kg	Prep Date: 05/16/2013	Run No: 244172							
Sample Type: MBLK	TestCode: TCL-SEMIVOLATILE ORGANICS SW8270D	BatchID: 176170	Analysis Date: 05/16/2013	Seq No: 5112601							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1'-Biphenyl	BRL	330	0	0	0	0	0	0	0	0	0
2,4,5-Trichlorophenol	BRL	1700	0	0	0	0	0	0	0	0	0
2,4,6-Trichlorophenol	BRL	330	0	0	0	0	0	0	0	0	0
2,4-Dichlorophenol	BRL	330	0	0	0	0	0	0	0	0	0
2,4-Dimethylphenol	BRL	330	0	0	0	0	0	0	0	0	0
2,4-Dinitrophenol	BRL	1700	0	0	0	0	0	0	0	0	0
2,4-Dinitrotoluene	BRL	330	0	0	0	0	0	0	0	0	0
2,6-Dinitrotoluene	BRL	330	0	0	0	0	0	0	0	0	0
2-Chloronaphthalene	BRL	330	0	0	0	0	0	0	0	0	0
2-Chlorophenol	BRL	330	0	0	0	0	0	0	0	0	0
2-Methylnaphthalene	BRL	330	0	0	0	0	0	0	0	0	0
2-Methylphenol	BRL	330	0	0	0	0	0	0	0	0	0
2-Nitroaniline	BRL	1700	0	0	0	0	0	0	0	0	0
2-Nitrophenol	BRL	330	0	0	0	0	0	0	0	0	0
3,3'-Dichlorobenzidine	BRL	670	0	0	0	0	0	0	0	0	0
3-Nitroaniline	BRL	1700	0	0	0	0	0	0	0	0	0
4,6-Dinitro-2-methylphenol	BRL	1700	0	0	0	0	0	0	0	0	0
4-Bromophenyl phenyl ether	BRL	330	0	0	0	0	0	0	0	0	0
4-Chloro-3-methylphenol	BRL	330	0	0	0	0	0	0	0	0	0
4-Chloroaniline	BRL	330	0	0	0	0	0	0	0	0	0
4-Chlorophenyl phenyl ether	BRL	330	0	0	0	0	0	0	0	0	0
4-Methylphenol	BRL	330	0	0	0	0	0	0	0	0	0
4-Nitroaniline	BRL	1700	0	0	0	0	0	0	0	0	0
4-Nitrophenol	BRL	1700	0	0	0	0	0	0	0	0	0
Acenaphthene	BRL	330	0	0	0	0	0	0	0	0	0
Acenaphthylene	BRL	330	0	0	0	0	0	0	0	0	0
Acetophenone	BRL	330	0	0	0	0	0	0	0	0	0

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
 Project Name: Lafarge EP
 Workorder: 1305C90

ANALYTICAL QC SUMMARY REPORT

BatchID: 176170

Sample ID: MB-176170	Client ID:	Units: ug/Kg	Prep Date: 05/16/2013	Run No: 244172							
SampleType: MBLK	TestCode: TCL-SEMIVOLATILE ORGANICS SW8270D	BatchID: 176170	Analysis Date: 05/16/2013	Seq No: 5112601							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Anthracene	BRL	330	0	0	0	0	0	0	0	0	0
Atrazine	BRL	330	0	0	0	0	0	0	0	0	0
Benz(a)anthracene	BRL	330	0	0	0	0	0	0	0	0	0
Benzaldehyde	BRL	330	0	0	0	0	0	0	0	0	0
Benzo(a)pyrene	BRL	330	0	0	0	0	0	0	0	0	0
Benzo(b)fluoranthene	BRL	330	0	0	0	0	0	0	0	0	0
Benzo(g,h,i)perylene	BRL	330	0	0	0	0	0	0	0	0	0
Benzo(k)fluoranthene	BRL	330	0	0	0	0	0	0	0	0	0
Bis(2-chloroethoxy)methane	BRL	330	0	0	0	0	0	0	0	0	0
Bis(2-chloroethyl)ether	BRL	330	0	0	0	0	0	0	0	0	0
Bis(2-chloroisopropyl)ether	BRL	330	0	0	0	0	0	0	0	0	0
Bis(2-ethylhexyl)phthalate	BRL	330	0	0	0	0	0	0	0	0	0
Butyl benzyl phthalate	BRL	330	0	0	0	0	0	0	0	0	0
Caprolactam	BRL	330	0	0	0	0	0	0	0	0	0
Carbazole	BRL	330	0	0	0	0	0	0	0	0	0
Chrysene	BRL	330	0	0	0	0	0	0	0	0	0
Di-n-butyl phthalate	BRL	330	0	0	0	0	0	0	0	0	0
Di-n-octyl phthalate	BRL	330	0	0	0	0	0	0	0	0	0
Dibenz(a,h)anthracene	BRL	330	0	0	0	0	0	0	0	0	0
Dibenzofuran	BRL	330	0	0	0	0	0	0	0	0	0
Diethyl phthalate	BRL	330	0	0	0	0	0	0	0	0	0
Dimethyl phthalate	BRL	330	0	0	0	0	0	0	0	0	0
Fluoranthene	BRL	330	0	0	0	0	0	0	0	0	0
Fluorene	BRL	330	0	0	0	0	0	0	0	0	0
Hexachlorobenzene	BRL	330	0	0	0	0	0	0	0	0	0
Hexachlorobutadiene	BRL	330	0	0	0	0	0	0	0	0	0
Hexachlorocyclopentadiene	BRL	660	0	0	0	0	0	0	0	0	0

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
BRL	Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S Spike Recovery outside limits due to matrix	

Client: Arcadis
 Project Name: Lafarge EP
 Workorder: 1305C90

ANALYTICAL QC SUMMARY REPORT

BatchID: 176170

Sample ID: MB-176170	Client ID:	Units: ug/Kg	Prep Date: 05/16/2013	Run No: 244172							
SampleType: MBLK	TestCode: TCL-SEMIVOLATILE ORGANICS SW8270D	BatchID: 176170	Analysis Date: 05/16/2013	Seq No: 5112601							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Hexachloroethane	BRL	330	0	0	0	0	0	0	0	0	0
Indeno(1,2,3-cd)pyrene	BRL	330	0	0	0	0	0	0	0	0	0
Isophorone	BRL	330	0	0	0	0	0	0	0	0	0
N-Nitrosodi-n-propylamine	BRL	330	0	0	0	0	0	0	0	0	0
N-Nitrosodiphenylamine	BRL	330	0	0	0	0	0	0	0	0	0
Naphthalene	BRL	330	0	0	0	0	0	0	0	0	0
Nitrobenzene	BRL	330	0	0	0	0	0	0	0	0	0
Pentachlorophenol	BRL	1700	0	0	0	0	0	0	0	0	0
Phenanthrene	BRL	330	0	0	0	0	0	0	0	0	0
Phenol	BRL	330	0	0	0	0	0	0	0	0	0
Pyrene	BRL	330	0	0	0	0	0	0	0	0	0
Surr: 2,4,6-Tribromophenol	2480	0	3333	0	74.4	40.4	136	0	0	0	0
Surr: 2-Fluorobiphenyl	1352	0	1667	0	81.1	46.1	120	0	0	0	0
Surr: 2-Fluorophenol	2505	0	3333	0	75.2	35.8	120	0	0	0	0
Surr: 4-Terphenyl-d14	1577	0	1667	0	94.6	50.2	134	0	0	0	0
Surr: Nitrobenzene-d5	1166	0	1667	0	69.9	38	120	0	0	0	0
Surr: Phenol-d5	2376	0	3333	0	71.3	40	120	0	0	0	0

Sample ID: LCS-176170	Client ID:	Units: ug/Kg	Prep Date: 05/16/2013	Run No: 244172							
SampleType: LCS	TestCode: TCL-SEMIVOLATILE ORGANICS SW8270D	BatchID: 176170	Analysis Date: 05/16/2013	Seq No: 5112602							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2,4-Dinitrotoluene	2914	330	3333	0	87.4	54.7	120	0	0	0	0
2-Chlorophenol	3372	330	3333	0	101	54.5	120	0	0	0	0
4-Chloro-3-methylphenol	2918	330	3333	0	87.5	56.6	120	0	0	0	0
4-Nitrophenol	2905	1700	3333	0	87.1	40.4	120	0	0	0	0
Acenaphthene	3158	330	3333	0	94.7	59.9	120	0	0	0	0
N-Nitrosodi-n-propylamine	2867	330	3333	0	86.0	53.2	120	0	0	0	0

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
 Project Name: Lafarge EP
 Workorder: 1305C90

ANALYTICAL QC SUMMARY REPORT

BatchID: 176170

Sample ID: LCS-176170	Client ID:	Units: ug/Kg	Prep Date: 05/16/2013	Run No: 244172							
SampleType: LCS	TestCode: TCL-SEMIVOLATILE ORGANICS SW8270D	BatchID: 176170	Analysis Date: 05/16/2013	Seq No: 5112602							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Pentachlorophenol	2828	1700	3333	0	84.8	41	120	0	0	0	
Phenol	3322	330	3333	0	99.7	50.5	120	0	0	0	
Pyrene	3292	330	3333	0	98.8	60.2	121	0	0	0	
Surr: 2,4,6-Tribromophenol	3084	0	3333	0	92.5	40.4	136	0	0	0	
Surr: 2-Fluorobiphenyl	1604	0	1667	0	96.2	46.1	120	0	0	0	
Surr: 2-Fluorophenol	2788	0	3333	0	83.6	35.8	120	0	0	0	
Surr: 4-Terphenyl-d14	1852	0	1667	0	111	50.2	134	0	0	0	
Surr: Nitrobenzene-d5	1338	0	1667	0	80.3	38	120	0	0	0	
Surr: Phenol-d5	2827	0	3333	0	84.8	40	120	0	0	0	

Sample ID: 1305C90-001BMS	Client ID: ZONE 3a-SP-2	Units: ug/Kg-dry	Prep Date: 05/16/2013	Run No: 244172							
SampleType: MS	TestCode: TCL-SEMIVOLATILE ORGANICS SW8270D	BatchID: 176170	Analysis Date: 05/16/2013	Seq No: 5113780							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2,4-Dinitrotoluene	3056	390	3965	0	77.1	41.6	120	0	0	0	
2-Chlorophenol	3486	390	3965	0	87.9	45.5	120	0	0	0	
4-Chloro-3-methylphenol	3060	390	3965	0	77.2	39.1	118	0	0	0	
4-Nitrophenol	3198	2000	3965	0	80.7	31.4	120	0	0	0	
Acenaphthene	3288	390	3965	0	82.9	50	120	0	0	0	
N-Nitrosodi-n-propylamine	3021	390	3965	0	76.2	50.5	120	0	0	0	
Pentachlorophenol	3761	2000	3965	0	94.9	30.1	120	0	0	0	
Phenol	3388	390	3965	0	85.5	42.2	120	0	0	0	
Pyrene	3290	390	3965	215.8	77.5	46.7	115	0	0	0	
Surr: 2,4,6-Tribromophenol	3128	0	3965	0	78.9	40.4	136	0	0	0	
Surr: 2-Fluorobiphenyl	1608	0	1983	0	81.1	46.1	120	0	0	0	
Surr: 2-Fluorophenol	2831	0	3965	0	71.4	35.8	120	0	0	0	
Surr: 4-Terphenyl-d14	1684	0	1983	0	84.9	50.2	134	0	0	0	
Surr: Nitrobenzene-d5	1373	0	1983	0	69.2	38	120	0	0	0	

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Arcadis
 Project Name: Lafarge EP
 Workorder: 1305C90

ANALYTICAL QC SUMMARY REPORT

BatchID: 176170

Sample ID: 1305C90-001BMS	Client ID: ZONE 3a-SP-2	Units: ug/Kg-dry	Prep Date: 05/16/2013	Run No: 244172							
SampleType: MS	TestCode: TCL-SEMIVOLATILE ORGANICS SW8270D	BatchID: 176170	Analysis Date: 05/16/2013	Seq No: 5113780							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Surr: Phenol-d5	2804	0	3965	0	70.7	40	120	0	0	0	
-----------------	------	---	------	---	------	----	-----	---	---	---	--

Sample ID: 1305C90-001BMSD	Client ID: ZONE 3a-SP-2	Units: ug/Kg-dry	Prep Date: 05/16/2013	Run No: 244172							
SampleType: MSD	TestCode: TCL-SEMIVOLATILE ORGANICS SW8270D	BatchID: 176170	Analysis Date: 05/16/2013	Seq No: 5113782							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2,4-Dinitrotoluene	2990	390	3961	0	75.5	41.6	120	3056	2.18	28.2	
2-Chlorophenol	3479	390	3961	0	87.8	45.5	120	3486	0.214	28.7	
4-Chloro-3-methylphenol	3010	390	3961	0	76.0	39.1	118	3060	1.67	31.3	
4-Nitrophenol	3313	2000	3961	0	83.6	31.4	120	3198	3.53	29.3	
Acenaphthene	3122	390	3961	0	78.8	50	120	3288	5.18	26.5	
N-Nitrosodi-n-propylamine	2997	390	3961	0	75.7	50.5	120	3021	0.798	24.2	
Pentachlorophenol	3732	2000	3961	0	94.2	30.1	120	3761	0.756	34.9	
Phenol	3397	390	3961	0	85.8	42.2	120	3388	0.262	27.1	
Pyrene	3147	390	3961	215.8	74.0	46.7	115	3290	4.43	30.2	
Surr: 2,4,6-Tribromophenol	3029	0	3961	0	76.5	40.4	136	3128	0	0	
Surr: 2-Fluorobiphenyl	1552	0	1981	0	78.3	46.1	120	1608	0	0	
Surr: 2-Fluorophenol	2903	0	3961	0	73.3	35.8	120	2831	0	0	
Surr: 4-Terphenyl-d14	1644	0	1981	0	83.0	50.2	134	1684	0	0	
Surr: Nitrobenzene-d5	1339	0	1981	0	67.6	38	120	1373	0	0	
Surr: Phenol-d5	2856	0	3961	0	72.1	40	120	2804	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
 Project Name: Lafarge EP
 Workorder: 1305C90

ANALYTICAL QC SUMMARY REPORT

BatchID: 176193

Sample ID: MB-176193	Client ID:	Units: ug/Kg	Prep Date: 05/15/2013	Run No: 244119							
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 176193	Analysis Date: 05/15/2013	Seq No: 5111508							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	0
1,1,2,2-Tetrachloroethane	BRL	5.0	0	0	0	0	0	0	0	0	0
1,1,2-Trichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	0
1,1-Dichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	0
1,1-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	0
1,2,4-Trichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	0
1,2-Dibromo-3-chloropropane	BRL	5.0	0	0	0	0	0	0	0	0	0
1,2-Dibromoethane	BRL	5.0	0	0	0	0	0	0	0	0	0
1,2-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	0
1,2-Dichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	0
1,2-Dichloropropane	BRL	5.0	0	0	0	0	0	0	0	0	0
1,3-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	0
1,4-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	0
2-Butanone	BRL	50	0	0	0	0	0	0	0	0	0
2-Hexanone	BRL	10	0	0	0	0	0	0	0	0	0
4-Methyl-2-pentanone	BRL	10	0	0	0	0	0	0	0	0	0
Acetone	BRL	100	0	0	0	0	0	0	0	0	0
Benzene	BRL	5.0	0	0	0	0	0	0	0	0	0
Bromodichloromethane	BRL	5.0	0	0	0	0	0	0	0	0	0
Bromoform	BRL	5.0	0	0	0	0	0	0	0	0	0
Bromomethane	BRL	5.0	0	0	0	0	0	0	0	0	0
Carbon disulfide	BRL	10	0	0	0	0	0	0	0	0	0
Carbon tetrachloride	BRL	5.0	0	0	0	0	0	0	0	0	0
Chlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	0
Chloroethane	BRL	10	0	0	0	0	0	0	0	0	0
Chloroform	BRL	5.0	0	0	0	0	0	0	0	0	0
Chloromethane	BRL	10	0	0	0	0	0	0	0	0	0

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
 Project Name: Lafarge EP
 Workorder: 1305C90

ANALYTICAL QC SUMMARY REPORT

BatchID: 176193

Sample ID: MB-176193	Client ID:	Units: ug/Kg	Prep Date: 05/15/2013	Run No: 244119							
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 176193	Analysis Date: 05/15/2013	Seq No: 5111508							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
cis-1,3-Dichloropropene	BRL	5.0	0	0	0	0	0	0	0	0	
Cyclohexane	BRL	5.0	0	0	0	0	0	0	0	0	
Dibromochloromethane	BRL	5.0	0	0	0	0	0	0	0	0	
Dichlorodifluoromethane	BRL	10	0	0	0	0	0	0	0	0	
Ethylbenzene	BRL	5.0	0	0	0	0	0	0	0	0	
Freon-113	BRL	10	0	0	0	0	0	0	0	0	
Isopropylbenzene	BRL	5.0	0	0	0	0	0	0	0	0	
m,p-Xylene	BRL	5.0	0	0	0	0	0	0	0	0	
Methyl acetate	BRL	5.0	0	0	0	0	0	0	0	0	
Methyl tert-butyl ether	BRL	5.0	0	0	0	0	0	0	0	0	
Methylcyclohexane	BRL	5.0	0	0	0	0	0	0	0	0	
Methylene chloride	BRL	5.0	0	0	0	0	0	0	0	0	
o-Xylene	BRL	5.0	0	0	0	0	0	0	0	0	
Styrene	BRL	5.0	0	0	0	0	0	0	0	0	
Tetrachloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
Toluene	BRL	5.0	0	0	0	0	0	0	0	0	
trans-1,2-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
trans-1,3-Dichloropropene	BRL	5.0	0	0	0	0	0	0	0	0	
Trichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
Trichlorofluoromethane	BRL	5.0	0	0	0	0	0	0	0	0	
Vinyl chloride	BRL	10	0	0	0	0	0	0	0	0	
Surr: 4-Bromofluorobenzene	39.87	0	50.00	0	79.7	63.8	133	0	0	0	
Surr: Dibromofluoromethane	45.31	0	50.00	0	90.6	74.3	130	0	0	0	
Surr: Toluene-d8	48.76	0	50.00	0	97.5	72.8	122	0	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
 Project Name: Lafarge EP
 Workorder: 1305C90

ANALYTICAL QC SUMMARY REPORT

BatchID: 176193

Sample ID: LCS-176193	Client ID:	Units: ug/Kg	Prep Date: 05/15/2013	Run No: 244119							
SampleType: LCS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 176193	Analysis Date: 05/15/2013	Seq No: 5111506							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	41.87	5.0	50.00	0	83.7	63.1	140	0	0	0	
Benzene	51.62	5.0	50.00	0	103	70.2	130	0	0	0	
Chlorobenzene	48.38	5.0	50.00	0	96.8	70	126	0	0	0	
Toluene	51.65	5.0	50.00	0	103	70.5	130	0	0	0	
Trichloroethene	48.89	5.0	50.00	0	97.8	70	135	0	0	0	
Surr: 4-Bromofluorobenzene	44.61	0	50.00	0	89.2	63.8	133	0	0	0	
Surr: Dibromofluoromethane	43.43	0	50.00	0	86.9	74.3	130	0	0	0	
Surr: Toluene-d8	49.94	0	50.00	0	99.9	72.8	122	0	0	0	

Sample ID: 1305B53-001AMS	Client ID:	Units: ug/Kg-dry	Prep Date: 05/15/2013	Run No: 244119							
SampleType: MS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 176193	Analysis Date: 05/15/2013	Seq No: 5111514							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	41.40	5.9	59.35	0	69.8	58.8	157	0	0	0	
Benzene	57.19	5.9	59.35	0	96.4	66.3	139	0	0	0	
Chlorobenzene	51.35	5.9	59.35	0	86.5	67.8	131	0	0	0	
Toluene	54.90	5.9	59.35	0	92.5	66	138	0	0	0	
Trichloroethene	54.26	5.9	59.35	0	91.4	72.5	141	0	0	0	
Surr: 4-Bromofluorobenzene	53.37	0	59.35	0	89.9	63.8	133	0	0	0	
Surr: Dibromofluoromethane	52.25	0	59.35	0	88.0	74.3	130	0	0	0	
Surr: Toluene-d8	57.66	0	59.35	0	97.1	72.8	122	0	0	0	

Sample ID: 1305B53-001AMSD	Client ID:	Units: ug/Kg-dry	Prep Date: 05/15/2013	Run No: 244119							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 176193	Analysis Date: 05/15/2013	Seq No: 5111515							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	45.49	5.9	59.35	0	76.6	58.8	157	41.40	9.40	21.9	
Benzene	61.68	5.9	59.35	0	104	66.3	139	57.19	7.55	22.3	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
 Project Name: Lafarge EP
 Workorder: 1305C90

ANALYTICAL QC SUMMARY REPORT

BatchID: 176193

Sample ID: 1305B53-001AMSD	Client ID:	Units: ug/Kg-dry	Prep Date: 05/15/2013	Run No: 244119							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 176193	Analysis Date: 05/15/2013	Seq No: 5111515							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chlorobenzene	54.87	5.9	59.35	0	92.4	67.8	131	51.35	6.62	17.3	
Toluene	60.74	5.9	59.35	0	102	66	138	54.90	10.1	18.1	
Trichloroethene	56.85	5.9	59.35	0	95.8	72.5	141	54.26	4.66	18.7	
Surr: 4-Bromofluorobenzene	53.23	0	59.35	0	89.7	63.8	133	53.37	0	0	
Surr: Dibromofluoromethane	53.41	0	59.35	0	90.0	74.3	130	52.25	0	0	
Surr: Toluene-d8	60.50	0	59.35	0	102	72.8	122	57.66	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
 Project Name: Lafarge EP
 Workorder: 1305C90

ANALYTICAL QC SUMMARY REPORT

BatchID: 176199

Sample ID: MB-176199	Client ID:	Units: ug/Kg	Prep Date: 05/15/2013	Run No: 244131							
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 176199	Analysis Date: 05/16/2013	Seq No: 5111708							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	BRL	250	0	0	0	0	0	0	0	0	0
1,1,2,2-Tetrachloroethane	BRL	250	0	0	0	0	0	0	0	0	0
1,1,2-Trichloroethane	BRL	250	0	0	0	0	0	0	0	0	0
1,1-Dichloroethane	BRL	250	0	0	0	0	0	0	0	0	0
1,1-Dichloroethene	BRL	250	0	0	0	0	0	0	0	0	0
1,2,4-Trichlorobenzene	BRL	250	0	0	0	0	0	0	0	0	0
1,2-Dibromo-3-chloropropane	BRL	250	0	0	0	0	0	0	0	0	0
1,2-Dibromoethane	BRL	250	0	0	0	0	0	0	0	0	0
1,2-Dichlorobenzene	BRL	250	0	0	0	0	0	0	0	0	0
1,2-Dichloroethane	BRL	250	0	0	0	0	0	0	0	0	0
1,2-Dichloropropane	BRL	250	0	0	0	0	0	0	0	0	0
1,3-Dichlorobenzene	BRL	250	0	0	0	0	0	0	0	0	0
1,4-Dichlorobenzene	BRL	250	0	0	0	0	0	0	0	0	0
2-Butanone	BRL	2500	0	0	0	0	0	0	0	0	0
2-Hexanone	BRL	500	0	0	0	0	0	0	0	0	0
4-Methyl-2-pentanone	BRL	500	0	0	0	0	0	0	0	0	0
Acetone	BRL	5000	0	0	0	0	0	0	0	0	0
Benzene	BRL	250	0	0	0	0	0	0	0	0	0
Bromodichloromethane	BRL	250	0	0	0	0	0	0	0	0	0
Bromoform	BRL	250	0	0	0	0	0	0	0	0	0
Bromomethane	BRL	250	0	0	0	0	0	0	0	0	0
Carbon disulfide	BRL	500	0	0	0	0	0	0	0	0	0
Carbon tetrachloride	BRL	250	0	0	0	0	0	0	0	0	0
Chlorobenzene	BRL	250	0	0	0	0	0	0	0	0	0
Chloroethane	BRL	500	0	0	0	0	0	0	0	0	0
Chloroform	BRL	250	0	0	0	0	0	0	0	0	0
Chloromethane	BRL	500	0	0	0	0	0	0	0	0	0

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
 Project Name: Lafarge EP
 Workorder: 1305C90

ANALYTICAL QC SUMMARY REPORT

BatchID: 176199

Sample ID: MB-176199	Client ID:	Units: ug/Kg	Prep Date: 05/15/2013	Run No: 244131							
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 176199	Analysis Date: 05/16/2013	Seq No: 5111708							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

cis-1,2-Dichloroethene	BRL	250	0	0	0	0	0	0	0	0	0
cis-1,3-Dichloropropene	BRL	250	0	0	0	0	0	0	0	0	0
Cyclohexane	BRL	250	0	0	0	0	0	0	0	0	0
Dibromochloromethane	BRL	250	0	0	0	0	0	0	0	0	0
Dichlorodifluoromethane	BRL	500	0	0	0	0	0	0	0	0	0
Ethylbenzene	BRL	250	0	0	0	0	0	0	0	0	0
Freon-113	BRL	500	0	0	0	0	0	0	0	0	0
Isopropylbenzene	BRL	250	0	0	0	0	0	0	0	0	0
m,p-Xylene	BRL	250	0	0	0	0	0	0	0	0	0
Methyl acetate	BRL	250	0	0	0	0	0	0	0	0	0
Methyl tert-butyl ether	BRL	250	0	0	0	0	0	0	0	0	0
Methylcyclohexane	BRL	250	0	0	0	0	0	0	0	0	0
Methylene chloride	BRL	250	0	0	0	0	0	0	0	0	0
o-Xylene	BRL	250	0	0	0	0	0	0	0	0	0
Styrene	BRL	250	0	0	0	0	0	0	0	0	0
Tetrachloroethene	BRL	250	0	0	0	0	0	0	0	0	0
Toluene	BRL	250	0	0	0	0	0	0	0	0	0
trans-1,2-Dichloroethene	BRL	250	0	0	0	0	0	0	0	0	0
trans-1,3-Dichloropropene	BRL	250	0	0	0	0	0	0	0	0	0
Trichloroethene	BRL	250	0	0	0	0	0	0	0	0	0
Trichlorofluoromethane	BRL	250	0	0	0	0	0	0	0	0	0
Vinyl chloride	BRL	500	0	0	0	0	0	0	0	0	0
Surr: 4-Bromofluorobenzene	2383	0	2500	0	95.3	63.8	133	0	0	0	0
Surr: Dibromofluoromethane	2603	0	2500	0	104	74.3	130	0	0	0	0
Surr: Toluene-d8	2744	0	2500	0	110	72.8	122	0	0	0	0

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
BRL	Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S Spike Recovery outside limits due to matrix	

Client: Arcadis
 Project Name: Lafarge EP
 Workorder: 1305C90

ANALYTICAL QC SUMMARY REPORT

BatchID: 176199

Sample ID: LCS-176199	Client ID:	Units: ug/Kg	Prep Date: 05/15/2013	Run No: 244131							
SampleType: LCS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 176199	Analysis Date: 05/15/2013	Seq No: 5111704							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	3364	250	2500	0	135	63.1	140	0	0	0	
Benzene	2900	250	2500	0	116	70.2	130	0	0	0	
Chlorobenzene	2558	250	2500	0	102	70	126	0	0	0	
Toluene	2972	250	2500	0	119	70.5	130	0	0	0	
Trichloroethene	2848	250	2500	0	114	70	135	0	0	0	
Surr: 4-Bromofluorobenzene	2513	0	2500	0	101	63.8	133	0	0	0	
Surr: Dibromofluoromethane	2627	0	2500	0	105	74.3	130	0	0	0	
Surr: Toluene-d8	2580	0	2500	0	103	72.8	122	0	0	0	

Sample ID: 1305C32-001AMS	Client ID:	Units: ug/Kg-dry	Prep Date: 05/15/2013	Run No: 244131							
SampleType: MS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 176199	Analysis Date: 05/16/2013	Seq No: 5111705							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	2376	160	1594	0	149	58.8	157	0	0	0	
Benzene	2109	160	1594	0	132	66.3	139	0	0	0	
Chlorobenzene	1807	160	1594	0	113	67.8	131	0	0	0	
Toluene	2184	160	1594	0	137	66	138	0	0	0	
Trichloroethene	2329	160	1594	344.7	124	72.5	141	0	0	0	
Surr: 4-Bromofluorobenzene	1620	0	1594	0	102	63.8	133	0	0	0	
Surr: Dibromofluoromethane	1717	0	1594	0	108	74.3	130	0	0	0	
Surr: Toluene-d8	1723	0	1594	0	108	72.8	122	0	0	0	

Sample ID: 1305C32-001AMSD	Client ID:	Units: ug/Kg-dry	Prep Date: 05/15/2013	Run No: 244131							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 176199	Analysis Date: 05/16/2013	Seq No: 5111706							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	2145	160	1594	0	135	58.8	157	2376	10.2	21.9	
Benzene	2036	160	1594	0	128	66.3	139	2109	3.52	22.3	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
 Project Name: Lafarge EP
 Workorder: 1305C90

ANALYTICAL QC SUMMARY REPORT

BatchID: 176199

Sample ID: 1305C32-001AMSD	Client ID:	Units: ug/Kg-dry	Prep Date: 05/15/2013	Run No: 244131
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 176199	Analysis Date: 05/16/2013	Seq No: 5111706

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	1757	160	1594	0	110	67.8	131	1807	2.77	17.3	
Toluene	2075	160	1594	0	130	66	138	2184	5.11	18.1	
Trichloroethene	2190	160	1594	344.7	116	72.5	141	2329	6.17	18.7	
Surr: 4-Bromofluorobenzene	1685	0	1594	0	106	63.8	133	1620	0	0	
Surr: Dibromofluoromethane	1744	0	1594	0	109	74.3	130	1717	0	0	
Surr: Toluene-d8	1698	0	1594	0	106	72.8	122	1723	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		



May 31, 2013

Peter Cornais
Arcadis
2081 Vista Parkway, Suite 200
West Palm Beach FL 33411

TEL: (850) 445-0829
FAX:

RE: Lafarge EP

Dear Peter Cornais:

Order No: 1305196

Analytical Environmental Services, Inc. received 1 samples on 5/22/2013 2:12:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/12-06/30/13.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/13.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Chantelle Kanhai
Project Manager

Client: Arcadis
Project: Lafarge EP
Lab ID: 1305I96

Case Narrative

pH Analysis by Method 9045D:

Samples for pH analysis by Method 9045D were received and analyzed outside holding time requirement of "immediate or 15 minutes".

Per Peter Cornais on 5/22/2013 via telephone, the samples were analyzed for TCLP VOCs, TCLP RCRA 8 Metals, TCLP PAHs at next day TAT and RCI at 2 day TAT.

Client: Arcadis	Client Sample ID: ZONE 4- SP-3
Project Name: Lafarge EP	Collection Date: 5/22/2013 1:20:00 PM
Lab ID: 1305196-001	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
VOLATILES, TCLP SW1311/8260B		(SW1311)						
1,1-Dichloroethene	BRL	0.10		mg/L	176564	20	05/23/2013 12:58	YT
1,2-Dichloroethane	BRL	0.10		mg/L	176564	20	05/23/2013 12:58	YT
2-Butanone	BRL	0.20		mg/L	176564	20	05/23/2013 12:58	YT
Benzene	BRL	0.10		mg/L	176564	20	05/23/2013 12:58	YT
Carbon tetrachloride	BRL	0.10		mg/L	176564	20	05/23/2013 12:58	YT
Chlorobenzene	BRL	0.10		mg/L	176564	20	05/23/2013 12:58	YT
Chloroform	BRL	0.10		mg/L	176564	20	05/23/2013 12:58	YT
Tetrachloroethene	BRL	0.10		mg/L	176564	20	05/23/2013 12:58	YT
Trichloroethene	BRL	0.10		mg/L	176564	20	05/23/2013 12:58	YT
Vinyl chloride	BRL	0.040		mg/L	176564	20	05/23/2013 12:58	YT
Surr: 4-Bromofluorobenzene	90.8	65-129		%REC	176564	20	05/23/2013 12:58	YT
Surr: Dibromofluoromethane	118	72.3-129		%REC	176564	20	05/23/2013 12:58	YT
Surr: Toluene-d8	102	74.2-118		%REC	176564	20	05/23/2013 12:58	YT
Sulfide, Reactive SW7.3.4.2		(SW7.3.4.2)						
Sulfide, Reactive	BRL	100		mg/Kg	176498	1	05/22/2013 17:10	AS
POLYAROMATIC HYDROCARBONS SW8270D		(SW3535A)						
Naphthalene	BRL	100		ug/L	176518	1	05/23/2013 16:40	EI
Acenaphthylene	BRL	100		ug/L	176518	1	05/23/2013 16:40	EI
1-Methylnaphthalene	BRL	100		ug/L	176518	1	05/23/2013 16:40	EI
2-Methylnaphthalene	BRL	100		ug/L	176518	1	05/23/2013 16:40	EI
Acenaphthene	BRL	100		ug/L	176518	1	05/23/2013 16:40	EI
Fluorene	BRL	100		ug/L	176518	1	05/23/2013 16:40	EI
Phenanthrene	BRL	100		ug/L	176518	1	05/23/2013 16:40	EI
Anthracene	BRL	100		ug/L	176518	1	05/23/2013 16:40	EI
Fluoranthene	BRL	100		ug/L	176518	1	05/23/2013 16:40	EI
Pyrene	BRL	100		ug/L	176518	1	05/23/2013 16:40	EI
Benz(a)anthracene	BRL	100		ug/L	176518	1	05/23/2013 16:40	EI
Chrysene	BRL	100		ug/L	176518	1	05/23/2013 16:40	EI
Benzo(b)fluoranthene	BRL	100		ug/L	176518	1	05/23/2013 16:40	EI
Benzo(k)fluoranthene	BRL	100		ug/L	176518	1	05/23/2013 16:40	EI
Benzo(a)pyrene	BRL	100		ug/L	176518	1	05/23/2013 16:40	EI
Dibenz(a,h)anthracene	BRL	100		ug/L	176518	1	05/23/2013 16:40	EI
Benzo(g,h,i)perylene	BRL	100		ug/L	176518	1	05/23/2013 16:40	EI
Indeno(1,2,3-cd)pyrene	BRL	100		ug/L	176518	1	05/23/2013 16:40	EI
Surr: Nitrobenzene-d5	83.3	35-118		%REC	176518	1	05/23/2013 16:40	EI
Surr: 2-Fluorobiphenyl	82.2	40.6-116		%REC	176518	1	05/23/2013 16:40	EI
Surr: 4-Terphenyl-d14	99.9	51.8-124		%REC	176518	1	05/23/2013 16:40	EI
MERCURY, TCLP SW1311/7470A		(SW7470A)						

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: ZONE 4- SP-3
Project Name: Lafarge EP	Collection Date: 5/22/2013 1:20:00 PM
Lab ID: 1305196-001	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
MERCURY, TCLP SW1311/7470A					(SW7470A)			
Mercury	BRL	0.00400		mg/L	176499	1	05/23/2013 14:58	TA
Laboratory Hydrogen Ion (pH) SW9045D					(SW9045D)			
pH	8.01	0.01	H	pH Units	176580	1	05/23/2013 10:00	DM
Ignitability SW1010A								
Ignitability	180	0	>	°F	R244568	1	05/22/2013 15:00	AS
ICP METALS, TCLP SW1311/6010C					(SW3010A)			
Arsenic	BRL	0.250		mg/L	176517	1	05/23/2013 14:03	MR
Barium	1.84	0.500		mg/L	176517	1	05/23/2013 14:03	MR
Cadmium	BRL	0.0250		mg/L	176517	1	05/23/2013 14:03	MR
Chromium	0.0653	0.0500		mg/L	176517	1	05/23/2013 14:03	MR
Lead	2.20	0.0500		mg/L	176517	1	05/23/2013 14:03	MR
Selenium	BRL	0.100		mg/L	176517	1	05/23/2013 14:03	MR
Silver	BRL	0.0250		mg/L	176517	1	05/23/2013 14:03	MR
Cyanide, Reactive SW7.3.3.2					(SW7.3.3.2)			
Cyanide, Reactive	BRL	1.00		mg/Kg	176563	1	05/23/2013 13:45	CG

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Arcadis

Work Order Number 1305I96

Checklist completed by [Signature] Date 5/22/13

Carrier name: FedEx UPS Courier Client US Mail Other

Shipping container/cooler in good condition? Yes No Not Present

Custody seals intact on shipping container/cooler? Yes No Not Present

Custody seals intact on sample bottles? Yes No Not Present

Container/Temp Blank temperature in compliance? (4°C±2)* Yes No

Cooler #1 3.9 Cooler #2 Cooler #3 Cooler #4 Cooler #5 Cooler #6

Chain of custody present? Yes No

Chain of custody signed when relinquished and received? Yes No

Chain of custody agrees with sample labels? Yes No

Samples in proper container/bottle? Yes No

Sample containers intact? Yes No

Sufficient sample volume for indicated test? Yes No

All samples received within holding time? Yes No

Was TAT marked on the COC? Yes No

Proceed with Standard TAT as per project history? Yes No Not Applicable

Water - VOA vials have zero headspace? No VOA vials submitted Yes No

Water - pH acceptable upon receipt? Yes No Not Applicable

Sample Condition: Good Other(Explain)

(For diffusive samples or AIHA lead) Is a known blank included? Yes No

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

Client: Arcadis
 Project: Lafarge EP
 Lab Order: 1305I96

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1305I96-001A	ZONE 4- SP-3	5/22/2013 1:20:00PM	Soil	VOLATILES, TCLP Leached	05/22/2013	05/23/2013	05/23/2013
1305I96-001B	ZONE 4- SP-3	5/22/2013 1:20:00PM	Soil	MERCURY, TCLP Leached	05/22/2013	05/23/2013	05/23/2013
1305I96-001B	ZONE 4- SP-3	5/22/2013 1:20:00PM	Soil	ICP METALS, TCLP Leached	05/22/2013	05/23/2013	05/23/2013
1305I96-001B	ZONE 4- SP-3	5/22/2013 1:20:00PM	Soil	POLYNUCLEAR AROMATIC HYDROCARBONS		05/23/2013	05/23/2013
1305I96-001C	ZONE 4- SP-3	5/22/2013 1:20:00PM	Soil	Cyanide, Reactive		05/23/2013	05/23/2013
1305I96-001C	ZONE 4- SP-3	5/22/2013 1:20:00PM	Soil	Sulfide, Reactive		05/22/2013	05/22/2013
1305I96-001D	ZONE 4- SP-3	5/22/2013 1:20:00PM	Soil	IGNITABILITY			05/22/2013
1305I96-001D	ZONE 4- SP-3	5/22/2013 1:20:00PM	Soil	Laboratory Hydrogen Ion (pH)		05/23/2013	05/23/2013

Client: Arcadis
 Project Name: Lafarge EP
 Workorder: 1305I96

ANALYTICAL QC SUMMARY REPORT

BatchID: 176498

Sample ID: MB-176498	Client ID:	Units: mg/Kg	Prep Date: 05/22/2013	Run No: 244571							
SampleType: MBLK	TestCode: Sulfide, Reactive SW7.3.4.2	BatchID: 176498	Analysis Date: 05/22/2013	Seq No: 5121653							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Sulfide, Reactive BRL 100 0 0 0 0 0 0 0 0 0

Sample ID: LCS-176498	Client ID:	Units: mg/Kg	Prep Date: 05/22/2013	Run No: 244571							
SampleType: LCS	TestCode: Sulfide, Reactive SW7.3.4.2	BatchID: 176498	Analysis Date: 05/22/2013	Seq No: 5121654							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Sulfide, Reactive 1600 100 2000 0 80.0 30 120 0 0 0

Sample ID: 1305I96-001CMS	Client ID: ZONE 4- SP-3	Units: mg/Kg	Prep Date: 05/22/2013	Run No: 244571							
SampleType: MS	TestCode: Sulfide, Reactive SW7.3.4.2	BatchID: 176498	Analysis Date: 05/22/2013	Seq No: 5121656							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Sulfide, Reactive 432.0 100 800.0 0 54.0 27.8 117 0 0 0

Sample ID: 1305I96-001CMSD	Client ID: ZONE 4- SP-3	Units: mg/Kg	Prep Date: 05/22/2013	Run No: 244571							
SampleType: MSD	TestCode: Sulfide, Reactive SW7.3.4.2	BatchID: 176498	Analysis Date: 05/22/2013	Seq No: 5121657							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Sulfide, Reactive 368.0 100 800.0 0 46.0 27.8 117 432.0 16.0 27

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	

Client: Arcadis
 Project Name: Lafarge EP
 Workorder: 1305196

ANALYTICAL QC SUMMARY REPORT

BatchID: 176499

Sample ID: MB-176499	Client ID:	Units: mg/L	Prep Date: 05/23/2013	Run No: 244600							
SampleType: MBLK	TestCode: MERCURY, TCLP SW1311/7470A	BatchID: 176499	Analysis Date: 05/23/2013	Seq No: 5123285							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Mercury BRL 0.00400 0 0 0 0 0 0 0 0 0 0

Sample ID: LCS-176499	Client ID:	Units: mg/L	Prep Date: 05/23/2013	Run No: 244600							
SampleType: LCS	TestCode: MERCURY, TCLP SW1311/7470A	BatchID: 176499	Analysis Date: 05/23/2013	Seq No: 5123286							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Mercury 0.04032 0.00400 0.0400 0 101 85 115 0 0 0

Sample ID: 1305196-001BMS	Client ID: ZONE 4- SP-3	Units: mg/L	Prep Date: 05/23/2013	Run No: 244600							
SampleType: MS	TestCode: MERCURY, TCLP SW1311/7470A	BatchID: 176499	Analysis Date: 05/23/2013	Seq No: 5123288							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Mercury 0.04025 0.00400 0.0400 0 101 80 120 0 0 0

Sample ID: 1305196-001BMSD	Client ID: ZONE 4- SP-3	Units: mg/L	Prep Date: 05/23/2013	Run No: 244600							
SampleType: MSD	TestCode: MERCURY, TCLP SW1311/7470A	BatchID: 176499	Analysis Date: 05/23/2013	Seq No: 5123289							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Mercury 0.04020 0.00400 0.0400 0 100 80 120 0.04025 0.137 20

Qualifiers:

> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	

Client: Arcadis
 Project Name: Lafarge EP
 Workorder: 1305196

ANALYTICAL QC SUMMARY REPORT

BatchID: 176517

Sample ID: MB-176517	Client ID:	Units: mg/L	Prep Date: 05/23/2013	Run No: 244635							
SampleType: MBLK	TestCode: ICP METALS, TCLP SW1311/6010C	BatchID: 176517	Analysis Date: 05/23/2013	Seq No: 5123310							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	BRL	0.250	0	0	0	0	0	0	0	0	
Barium	BRL	0.500	0	0	0	0	0	0	0	0	
Cadmium	BRL	0.0250	0	0	0	0	0	0	0	0	
Chromium	BRL	0.0500	0	0	0	0	0	0	0	0	
Lead	BRL	0.0500	0	0	0	0	0	0	0	0	
Selenium	BRL	0.100	0	0	0	0	0	0	0	0	
Silver	BRL	0.0250	0	0	0	0	0	0	0	0	

Sample ID: LCS-176517	Client ID:	Units: mg/L	Prep Date: 05/23/2013	Run No: 244635							
SampleType: LCS	TestCode: ICP METALS, TCLP SW1311/6010C	BatchID: 176517	Analysis Date: 05/23/2013	Seq No: 5123308							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	5.240	0.250	5.000	0	105	85	115	0	0	0	
Barium	5.056	0.500	5.000	0.03884	100	80	120	0	0	0	
Cadmium	5.120	0.0250	5.000	0	102	85	115	0	0	0	
Chromium	5.086	0.0500	5.000	0	102	85	115	0	0	0	
Lead	5.022	0.0500	5.000	0	100	85	115	0	0	0	
Selenium	5.312	0.100	5.000	0	106	85	115	0	0	0	
Silver	0.4739	0.0250	0.5000	0	94.8	85	115	0	0	0	

Sample ID: 1305196-001BMS	Client ID: ZONE 4- SP-3	Units: mg/L	Prep Date: 05/23/2013	Run No: 244635							
SampleType: MS	TestCode: ICP METALS, TCLP SW1311/6010C	BatchID: 176517	Analysis Date: 05/23/2013	Seq No: 5123314							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	5.187	0.250	5.000	0	104	50	150	0	0	0	
Barium	6.698	0.500	5.000	1.836	97.2	50	150	0	0	0	
Cadmium	5.098	0.0250	5.000	0.01824	102	50	150	0	0	0	
Chromium	5.094	0.0500	5.000	0.06532	101	50	150	0	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
 Project Name: Lafarge EP
 Workorder: 1305196

ANALYTICAL QC SUMMARY REPORT

BatchID: 176517

Sample ID: 1305196-001BMS	Client ID: ZONE 4- SP-3	Units: mg/L	Prep Date: 05/23/2013	Run No: 244635							
SampleType: MS	TestCode: ICP METALS, TCLP SW1311/6010C	BatchID: 176517	Analysis Date: 05/23/2013	Seq No: 5123314							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Lead	6.918	0.0500	5.000	2.196	94.4	50	150	0	0	0	
Selenium	5.288	0.100	5.000	0	106	50	150	0	0	0	
Silver	0.4693	0.0250	0.5000	0	93.9	50	150	0	0	0	

Sample ID: 1305196-001BMSD	Client ID: ZONE 4- SP-3	Units: mg/L	Prep Date: 05/23/2013	Run No: 244635							
SampleType: MSD	TestCode: ICP METALS, TCLP SW1311/6010C	BatchID: 176517	Analysis Date: 05/23/2013	Seq No: 5123316							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	5.329	0.250	5.000	0	107	50	150	5.187	2.71	30	
Barium	6.815	0.500	5.000	1.836	99.6	50	150	6.698	1.73	30	
Cadmium	5.226	0.0250	5.000	0.01824	104	50	150	5.098	2.48	30	
Chromium	5.210	0.0500	5.000	0.06532	103	50	150	5.094	2.25	30	
Lead	7.081	0.0500	5.000	2.196	97.7	50	150	6.918	2.33	30	
Selenium	5.433	0.100	5.000	0	109	50	150	5.288	2.71	30	
Silver	0.4793	0.0250	0.5000	0	95.9	50	150	0.4693	2.13	30	

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Arcadis
 Project Name: Lafarge EP
 Workorder: 1305196

ANALYTICAL QC SUMMARY REPORT

BatchID: 176518

Sample ID: MB-176518	Client ID:	Units: ug/L	Prep Date: 05/23/2013	Run No: 244609							
SampleType: MBLK	TestCode: POLYAROMATIC HYDROCARBONS SW8270D	BatchID: 176518	Analysis Date: 05/23/2013	Seq No: 5123513							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1-Methylnaphthalene	BRL	100	0	0	0	0	0	0	0	0	0
2-Methylnaphthalene	BRL	100	0	0	0	0	0	0	0	0	0
Acenaphthene	BRL	100	0	0	0	0	0	0	0	0	0
Acenaphthylene	BRL	100	0	0	0	0	0	0	0	0	0
Anthracene	BRL	100	0	0	0	0	0	0	0	0	0
Benz(a)anthracene	BRL	100	0	0	0	0	0	0	0	0	0
Benzo(a)pyrene	BRL	100	0	0	0	0	0	0	0	0	0
Benzo(b)fluoranthene	BRL	100	0	0	0	0	0	0	0	0	0
Benzo(g,h,i)perylene	BRL	100	0	0	0	0	0	0	0	0	0
Benzo(k)fluoranthene	BRL	100	0	0	0	0	0	0	0	0	0
Chrysene	BRL	100	0	0	0	0	0	0	0	0	0
Dibenz(a,h)anthracene	BRL	100	0	0	0	0	0	0	0	0	0
Fluoranthene	BRL	100	0	0	0	0	0	0	0	0	0
Fluorene	BRL	100	0	0	0	0	0	0	0	0	0
Indeno(1,2,3-cd)pyrene	BRL	100	0	0	0	0	0	0	0	0	0
Naphthalene	BRL	100	0	0	0	0	0	0	0	0	0
Phenanthrene	BRL	100	0	0	0	0	0	0	0	0	0
Pyrene	BRL	100	0	0	0	0	0	0	0	0	0
Surr: 2-Fluorobiphenyl	441.4	0	500.0	0	88.3	40.6	116	0	0	0	0
Surr: 4-Terphenyl-d14	496.9	0	500.0	0	99.4	51.8	124	0	0	0	0
Surr: Nitrobenzene-d5	463.1	0	500.0	0	92.6	35	118	0	0	0	0

Sample ID: LCS-176518	Client ID:	Units: ug/L	Prep Date: 05/23/2013	Run No: 244609							
SampleType: LCS	TestCode: POLYAROMATIC HYDROCARBONS SW8270D	BatchID: 176518	Analysis Date: 05/23/2013	Seq No: 5123518							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1-Methylnaphthalene	501.4	100	500.0	0	100	52.5	120	0	0	0	0
2-Methylnaphthalene	463.8	100	500.0	0	92.8	50.9	120	0	0	0	0

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
 Project Name: Lafarge EP
 Workorder: 1305I96

ANALYTICAL QC SUMMARY REPORT

BatchID: 176518

Sample ID: LCS-176518	Client ID:	Units: ug/L	Prep Date: 05/23/2013	Run No: 244609							
SampleType: LCS	TestCode: POLYAROMATIC HYDROCARBONS SW8270D	BatchID: 176518	Analysis Date: 05/23/2013	Seq No: 5123518							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Acenaphthene	498.0	100	500.0	0	99.6	49	120	0	0	0	
Acenaphthylene	456.7	100	500.0	0	91.3	58.5	123	0	0	0	
Anthracene	503.3	100	500.0	0	101	55.6	120	0	0	0	
Benz(a)anthracene	501.5	100	500.0	0	100	52.6	120	0	0	0	
Benzo(a)pyrene	458.3	100	500.0	0	91.7	53	120	0	0	0	
Benzo(b)fluoranthene	497.3	100	500.0	0	99.5	49.5	120	0	0	0	
Benzo(g,h,i)perylene	578.3	100	500.0	0	116	50	120	0	0	0	
Benzo(k)fluoranthene	470.3	100	500.0	0	94.1	50	120	0	0	0	
Chrysene	460.8	100	500.0	0	92.2	51.3	120	0	0	0	
Dibenz(a,h)anthracene	536.7	100	500.0	0	107	50.1	120	0	0	0	
Fluoranthene	477.6	100	500.0	0	95.5	59.5	124	0	0	0	
Fluorene	521.7	100	500.0	0	104	51.1	120	0	0	0	
Indeno(1,2,3-cd)pyrene	577.0	100	500.0	0	115	51.1	120	0	0	0	
Naphthalene	458.8	100	500.0	0	91.8	50.8	120	0	0	0	
Phenanthrene	479.4	100	500.0	0	95.9	54.4	120	0	0	0	
Pyrene	459.3	100	500.0	0	91.9	52.7	120	0	0	0	
Surr: 2-Fluorobiphenyl	462.2	0	500.0	0	92.4	40.6	116	0	0	0	
Surr: 4-Terphenyl-d14	515.7	0	500.0	0	103	51.8	124	0	0	0	
Surr: Nitrobenzene-d5	502.4	0	500.0	0	100	35	118	0	0	0	

Sample ID: 1305I96-001BMS	Client ID: ZONE 4- SP-3	Units: ug/L	Prep Date: 05/23/2013	Run No: 244653							
SampleType: MS	TestCode: POLYAROMATIC HYDROCARBONS SW8270D	BatchID: 176518	Analysis Date: 05/23/2013	Seq No: 5124260							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1-Methylnaphthalene	417.3	100	500.0	0	83.5	41.7	120	0	0	0	
2-Methylnaphthalene	427.9	100	500.0	0	85.6	40.2	120	0	0	0	
Acenaphthene	460.6	100	500.0	0	92.1	40.6	120	0	0	0	
Acenaphthylene	562.1	100	500.0	0	112	43.3	123	0	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
 Project Name: Lafarge EP
 Workorder: 1305I96

ANALYTICAL QC SUMMARY REPORT

BatchID: 176518

Sample ID: 1305I96-001BMS	Client ID: ZONE 4- SP-3	Units: ug/L	Prep Date: 05/23/2013	Run No: 244653							
SampleType: MS	TestCode: POLYAROMATIC HYDROCARBONS SW8270D	BatchID: 176518	Analysis Date: 05/23/2013	Seq No: 5124260							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Anthracene	441.0	100	500.0	0	88.2	49.3	120	0	0	0	
Benz(a)anthracene	483.7	100	500.0	0	96.7	50.4	120	0	0	0	
Benzo(a)pyrene	490.1	100	500.0	0	98.0	49.4	120	0	0	0	
Benzo(b)fluoranthene	443.4	100	500.0	0	88.7	47.7	120	0	0	0	
Benzo(g,h,i)perylene	457.0	100	500.0	0	91.4	45.4	120	0	0	0	
Benzo(k)fluoranthene	467.3	100	500.0	0	93.5	48.4	120	0	0	0	
Chrysene	486.6	100	500.0	0	97.3	50.9	120	0	0	0	
Dibenz(a,h)anthracene	444.7	100	500.0	0	88.9	49.3	120	0	0	0	
Fluoranthene	414.8	100	500.0	0	83.0	51.8	124	0	0	0	
Fluorene	457.2	100	500.0	0	91.4	44.4	120	0	0	0	
Indeno(1,2,3-cd)pyrene	450.8	100	500.0	0	90.2	50.9	120	0	0	0	
Naphthalene	425.1	100	500.0	0	85.0	35.7	120	0	0	0	
Phenanthrene	435.0	100	500.0	0	87.0	48.8	120	0	0	0	
Pyrene	487.7	100	500.0	0	97.5	50.9	120	0	0	0	
Surr: 2-Fluorobiphenyl	427.8	0	500.0	0	85.6	40.6	116	0	0	0	
Surr: 4-Terphenyl-d14	505.3	0	500.0	0	101	51.8	124	0	0	0	
Surr: Nitrobenzene-d5	433.7	0	500.0	0	86.7	35	118	0	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
 Project Name: Lafarge EP
 Workorder: 1305I96

ANALYTICAL QC SUMMARY REPORT

BatchID: 176564

Sample ID: MB-176564	Client ID:	Units: mg/L	Prep Date: 05/23/2013	Run No: 244621							
SampleType: MBLK	TestCode: VOLATILES, TCLP SW1311/8260B	BatchID: 176564	Analysis Date: 05/23/2013	Seq No: 5123230							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	BRL	0.10	0	0	0	0	0	0	0	0	
1,2-Dichloroethane	BRL	0.10	0	0	0	0	0	0	0	0	
2-Butanone	BRL	0.20	0	0	0	0	0	0	0	0	
Benzene	BRL	0.10	0	0	0	0	0	0	0	0	
Carbon tetrachloride	BRL	0.10	0	0	0	0	0	0	0	0	
Chlorobenzene	BRL	0.10	0	0	0	0	0	0	0	0	
Chloroform	BRL	0.10	0	0	0	0	0	0	0	0	
Tetrachloroethene	BRL	0.10	0	0	0	0	0	0	0	0	
Trichloroethene	BRL	0.10	0	0	0	0	0	0	0	0	
Vinyl chloride	BRL	0.040	0	0	0	0	0	0	0	0	
Surr: 4-Bromofluorobenzene	0.8318	0	1.000	0	83.2	65	129	0	0	0	
Surr: Dibromofluoromethane	1.171	0	1.000	0	117	72.3	129	0	0	0	
Surr: Toluene-d8	1.010	0	1.000	0	101	74.2	118	0	0	0	

Sample ID: LCS-176564	Client ID:	Units: mg/L	Prep Date: 05/23/2013	Run No: 244621							
SampleType: LCS	TestCode: VOLATILES, TCLP SW1311/8260B	BatchID: 176564	Analysis Date: 05/23/2013	Seq No: 5123232							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	1.138	0.10	1.000	0	114	53	139	0	0	0	
1,2-Dichloroethane	0.9784	0.10	1.000	0	97.8	62	143	0	0	0	
2-Butanone	1.740	0.20	2.000	0	87.0	42	146	0	0	0	
Benzene	0.9402	0.10	1.000	0	94.0	70.6	128	0	0	0	
Carbon tetrachloride	1.233	0.10	1.000	0	123	56	146	0	0	0	
Chlorobenzene	0.9144	0.10	1.000	0	91.4	73	121	0	0	0	
Chloroform	0.9254	0.10	1.000	0	92.5	64.6	129	0	0	0	
Tetrachloroethene	0.9104	0.10	1.000	0	91.0	70.5	131	0	0	0	
Trichloroethene	0.9132	0.10	1.000	0	91.3	69.3	129	0	0	0	
Vinyl chloride	1.147	0.040	1.000	0	115	46.1	139	0	0	0	

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Arcadis
 Project Name: Lafarge EP
 Workorder: 1305I96

ANALYTICAL QC SUMMARY REPORT

BatchID: 176564

Sample ID: LCS-176564	Client ID:	Units: mg/L	Prep Date: 05/23/2013	Run No: 244621							
SampleType: LCS	TestCode: VOLATILES, TCLP SW1311/8260B	BatchID: 176564	Analysis Date: 05/23/2013	Seq No: 5123232							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Surr: 4-Bromofluorobenzene	1.031	0	1.000	0	103	65	129	0	0	0	
Surr: Dibromofluoromethane	1.159	0	1.000	0	116	72.3	129	0	0	0	
Surr: Toluene-d8	1.135	0	1.000	0	114	74.2	118	0	0	0	

Sample ID: 1305I96-001AMS	Client ID: ZONE 4- SP-3	Units: mg/L	Prep Date: 05/23/2013	Run No: 244621							
SampleType: MS	TestCode: VOLATILES, TCLP SW1311/8260B	BatchID: 176564	Analysis Date: 05/23/2013	Seq No: 5123236							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	1.223	0.10	1.000	0	122	52.3	155	0	0	0	
1,2-Dichloroethane	0.9776	0.10	1.000	0	97.8	58.3	144	0	0	0	
2-Butanone	1.613	0.20	2.000	0	80.6	39.1	160	0	0	0	
Benzene	1.002	0.10	1.000	0	100	70	139	0	0	0	
Carbon tetrachloride	1.332	0.10	1.000	0	133	53.3	147	0	0	0	
Chlorobenzene	0.9622	0.10	1.000	0	96.2	72.2	132	0	0	0	
Chloroform	0.9496	0.10	1.000	0	95.0	63.7	135	0	0	0	
Tetrachloroethene	0.9672	0.10	1.000	0	96.7	70	148	0	0	0	
Trichloroethene	0.9640	0.10	1.000	0	96.4	67.8	149	0	0	0	
Vinyl chloride	1.315	0.040	1.000	0	131	46.1	152	0	0	0	
Surr: 4-Bromofluorobenzene	1.048	0	1.000	0	105	65	129	0	0	0	
Surr: Dibromofluoromethane	1.156	0	1.000	0	116	72.3	129	0	0	0	
Surr: Toluene-d8	1.151	0	1.000	0	115	74.2	118	0	0	0	

Sample ID: 1305I96-001ADUP	Client ID: ZONE 4- SP-3	Units: mg/L	Prep Date: 05/23/2013	Run No: 244621							
SampleType: DUP	TestCode: VOLATILES, TCLP SW1311/8260B	BatchID: 176564	Analysis Date: 05/23/2013	Seq No: 5123235							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	BRL	0.10	0	0	0	0	0	0	0	30	
1,2-Dichloroethane	BRL	0.10	0	0	0	0	0	0	0	30	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
 Project Name: Lafarge EP
 Workorder: 1305I96

ANALYTICAL QC SUMMARY REPORT

BatchID: 176564

Sample ID: 1305I96-001ADUP	Client ID: ZONE 4- SP-3	Units: mg/L	Prep Date: 05/23/2013	Run No: 244621							
SampleType: DUP	TestCode: VOLATILES, TCLP SW1311/8260B	BatchID: 176564	Analysis Date: 05/23/2013	Seq No: 5123235							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2-Butanone	BRL	0.20	0	0	0	0	0	0	0	30	
Benzene	BRL	0.10	0	0	0	0	0	0	0	30	
Carbon tetrachloride	BRL	0.10	0	0	0	0	0	0	0	30	
Chlorobenzene	BRL	0.10	0	0	0	0	0	0	0	30	
Chloroform	BRL	0.10	0	0	0	0	0	0	0	30	
Tetrachloroethene	BRL	0.10	0	0	0	0	0	0	0	30	
Trichloroethene	BRL	0.10	0	0	0	0	0	0	0	30	
Vinyl chloride	BRL	0.040	0	0	0	0	0	0	0	30	
Surr: 4-Bromofluorobenzene	0.8694	0	1.000	0	86.9	65	129	0.9080	0	0	
Surr: Dibromofluoromethane	1.186	0	1.000	0	119	72.3	129	1.176	0	0	
Surr: Toluene-d8	1.043	0	1.000	0	104	74.2	118	1.024	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
 Project Name: Lafarge EP
 Workorder: 1305196

ANALYTICAL QC SUMMARY REPORT

BatchID: 176580

Sample ID: LCS-176580	Client ID:	Units: pH Units	Prep Date: 05/23/2013	Run No: 244655							
SampleType: LCS	TestCode: Laboratory Hydrogen Ion (pH) SW9045D	BatchID: 176580	Analysis Date: 05/23/2013	Seq No: 5123656							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

pH	7.010	0.01	7.000	0	100	90	110	0	0	0	
----	-------	------	-------	---	-----	----	-----	---	---	---	--

Sample ID: 1305196-001DDUP	Client ID: ZONE 4- SP-3	Units: pH Units	Prep Date: 05/23/2013	Run No: 244655							
SampleType: DUP	TestCode: Laboratory Hydrogen Ion (pH) SW9045D	BatchID: 176580	Analysis Date: 05/23/2013	Seq No: 5123658							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

pH	7.980	0.01	0	0	0	0	0	8.010	0.375	10	H
----	-------	------	---	---	---	---	---	-------	-------	----	---

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
 Project Name: Lafarge EP
 Workorder: 1305I96

ANALYTICAL QC SUMMARY REPORT

BatchID: R244568

Sample ID: LCS-R244568	Client ID:	Units: °F	Prep Date:	Run No: 244568							
SampleType: LCS	TestCode: Ignitability SW1010A	BatchID: R244568	Analysis Date: 05/22/2013	Seq No: 5121609							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ignitability	80.00	0	80.00	0	100	93.8	106.2	0	0	0	
--------------	-------	---	-------	---	-----	------	-------	---	---	---	--

Sample ID: 1305I96-001DDUP	Client ID: ZONE 4- SP-3	Units: °F	Prep Date:	Run No: 244568							
SampleType: DUP	TestCode: Ignitability SW1010A	BatchID: R244568	Analysis Date: 05/22/2013	Seq No: 5121611							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ignitability	180.0	0	0	0	0	0	0	180.0	0	20	>
--------------	-------	---	---	---	---	---	---	-------	---	----	---

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		



July 03, 2013

Peter Cornais
Arcadis
2081 Vista Parkway, Suite 200
West Palm Beach FL 33411

TEL: (850) 445-0829
FAX:

RE: Lafarge EP

Dear Peter Cornais:

Order No: 1306Q20

Analytical Environmental Services, Inc. received 1 samples on 6/28/2013 2:10:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/13-06/30/14.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/15.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Chantelle Kanhai
Project Manager



ANALYTICAL ENVIRONMENTAL SERVICES, INC

3785 Presidential Parkway, Atlanta GA 30340-3704

AES

TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1506Q20

Date: 6/28/13 Page 1 of 1

COMPANY: ATLAS		ADDRESS: 1000 Cobb Place Blvd Bldg 500-D, Kennesaw, GA			ANALYSIS REQUESTED					Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.		No # of Containers		
PHONE:		FAX:			PRESCRIPTIONS TOXIC SUBS (MCL) METALS (Trace Metals) Pesticides Ignitability Corrosivity									
SAMPLED BY: Mark Myer		SIGNATURE: <i>[Signature]</i>			PRESERVATION (See codes)					REMARKS				
#	SAMPLE ID	SAMPLED		Grab	Composite	Matrix (See codes)		I	P				I	I
		DATE	TIME											
1	Zone 2 - Sp 4	6/28/13	1255		←	SO		2	1	1	1			
2														
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														
13														
14														
RELINQUISHED BY		DATE/TIME		RECEIVED BY		DATE/TIME		PROJECT INFORMATION					RECEIPT	
1: Mark Myer		6-28-13 1330		1: <i>[Signature]</i>		6-28-13 1335		PROJECT NAME: Lake EP					Total # of Containers	
2: <i>[Signature]</i>		6-28-13 1410		2: <i>[Signature]</i>		6/28/13 14:10		PROJECT #: HZ12516.0002					Turnaround Time Request Standard 5 Business Days 2 Business Day Rush Next Business Day Rush Same Day Rush (auth req.) Other	
3:				3:				SITE ADDRESS: 2675 RN Martin St, East Point GA						
SPECIAL INSTRUCTIONS/COMMENTS:				SHIPMENT METHOD				SEND REPORT TO: Peter Carnis (p.carnis-aes.com)					STATE PROGRAM (if any):	
Page 2 of 20				OUT / / VIA:				INVOICE TO:					E-mail? Y/N, Fax? Y/N	
				IN / / VIA:				(IF DIFFERENT FROM ABOVE)					DATA PACKAGE: I II III IV	
				CLIENT FedEx UPS MAIL COURIER				QUOTE #:						
				GREYHOUND OTHER				PO#:						

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT. SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water
 PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

Client: Arcadis
Project: Lafarge EP
Lab ID: 1306Q20

Case Narrative

pH Analysis by Method 9045D:

Samples for pH analysis by Method 9045D were received and analyzed outside holding time requirement of "immediate or 15 minutes".

Client: Arcadis	Client Sample ID: ZONE 2-SP-4
Project Name: Lafarge EP	Collection Date: 6/28/2013 12:55:00 PM
Lab ID: 1306Q20-001	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
VOLATILES, TCLP SW1311/8260B		(SW1311)						
1,1-Dichloroethene	BRL	0.10		mg/L	178106	20	07/01/2013 14:07	GK
1,2-Dichloroethane	BRL	0.10		mg/L	178106	20	07/01/2013 14:07	GK
2-Butanone	BRL	0.20		mg/L	178106	20	07/01/2013 14:07	GK
Benzene	BRL	0.10		mg/L	178106	20	07/01/2013 14:07	GK
Carbon tetrachloride	BRL	0.10		mg/L	178106	20	07/01/2013 14:07	GK
Chlorobenzene	BRL	0.10		mg/L	178106	20	07/01/2013 14:07	GK
Chloroform	BRL	0.10		mg/L	178106	20	07/01/2013 14:07	GK
Tetrachloroethene	BRL	0.10		mg/L	178106	20	07/01/2013 14:07	GK
Trichloroethene	BRL	0.10		mg/L	178106	20	07/01/2013 14:07	GK
Vinyl chloride	BRL	0.040		mg/L	178106	20	07/01/2013 14:07	GK
Surr: 4-Bromofluorobenzene	88.1	65-129		%REC	178106	20	07/01/2013 14:07	GK
Surr: Dibromofluoromethane	97	72.3-129		%REC	178106	20	07/01/2013 14:07	GK
Surr: Toluene-d8	92.1	74.2-118		%REC	178106	20	07/01/2013 14:07	GK
Sulfide, Reactive SW7.3.4.2		(SW7.3.4.2)						
Sulfide, Reactive	BRL	100		mg/Kg	178131	1	07/01/2013 16:45	CG
POLYAROMATIC HYDROCARBONS SW8270D		(SW3535A)						
Naphthalene	BRL	100		ug/L	178065	1	07/01/2013 15:18	EI
Acenaphthylene	BRL	100		ug/L	178065	1	07/01/2013 15:18	EI
1-Methylnaphthalene	BRL	100		ug/L	178065	1	07/01/2013 15:18	EI
2-Methylnaphthalene	BRL	100		ug/L	178065	1	07/01/2013 15:18	EI
Acenaphthene	BRL	100		ug/L	178065	1	07/01/2013 15:18	EI
Fluorene	BRL	100		ug/L	178065	1	07/01/2013 15:18	EI
Phenanthrene	BRL	100		ug/L	178065	1	07/01/2013 15:18	EI
Anthracene	BRL	100		ug/L	178065	1	07/01/2013 15:18	EI
Fluoranthene	BRL	100		ug/L	178065	1	07/01/2013 15:18	EI
Pyrene	BRL	100		ug/L	178065	1	07/01/2013 15:18	EI
Benz(a)anthracene	BRL	100		ug/L	178065	1	07/01/2013 15:18	EI
Chrysene	BRL	100		ug/L	178065	1	07/01/2013 15:18	EI
Benzo(b)fluoranthene	BRL	100		ug/L	178065	1	07/01/2013 15:18	EI
Benzo(k)fluoranthene	BRL	100		ug/L	178065	1	07/01/2013 15:18	EI
Benzo(a)pyrene	BRL	100		ug/L	178065	1	07/01/2013 15:18	EI
Dibenz(a,h)anthracene	BRL	100		ug/L	178065	1	07/01/2013 15:18	EI
Benzo(g,h,i)perylene	BRL	100		ug/L	178065	1	07/01/2013 15:18	EI
Indeno(1,2,3-cd)pyrene	BRL	100		ug/L	178065	1	07/01/2013 15:18	EI
Surr: Nitrobenzene-d5	73.1	35-118		%REC	178065	1	07/01/2013 15:18	EI
Surr: 2-Fluorobiphenyl	66	40.6-116		%REC	178065	1	07/01/2013 15:18	EI
Surr: 4-Terphenyl-d14	77.4	51.8-124		%REC	178065	1	07/01/2013 15:18	EI
MERCURY, TCLP SW1311/7470A		(SW7470A)						

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 3-Jul-13

Client: Arcadis	Client Sample ID: ZONE 2-SP-4
Project Name: Lafarge EP	Collection Date: 6/28/2013 12:55:00 PM
Lab ID: 1306Q20-001	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
MERCURY, TCLP SW1311/7470A					(SW7470A)			
Mercury	BRL	0.00400		mg/L	178080	1	07/01/2013 13:14	JY
Laboratory Hydrogen Ion (pH) SW9045D					(SW9045D)			
pH	8.19	0.01	H	pH Units	178129	1	07/01/2013 11:30	DM
Ignitability SW1010A								
Ignitability	180	0	>	°F	R247153	1	07/01/2013 10:30	LW
ICP METALS, TCLP SW1311/6010C					(SW3010A)			
Arsenic	BRL	0.250		mg/L	178089	1	07/01/2013 15:21	MR
Barium	0.835	0.500		mg/L	178089	1	07/01/2013 15:21	MR
Cadmium	BRL	0.0250		mg/L	178089	1	07/01/2013 15:21	MR
Chromium	BRL	0.0500		mg/L	178089	1	07/01/2013 15:21	MR
Lead	2.40	0.0500		mg/L	178089	1	07/01/2013 15:21	MR
Selenium	BRL	0.100		mg/L	178089	1	07/01/2013 15:21	MR
Silver	BRL	0.0250		mg/L	178089	1	07/01/2013 15:21	MR
Cyanide, Reactive SW7.3.3.2					(SW7.3.3.2)			
Cyanide, Reactive	BRL	1.00		mg/Kg	178117	1	07/01/2013 16:10	CG

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Arcadis

Work Order Number 1306Q20

Checklist completed by [Signature] Date 6/28/13

Carrier name: FedEx UPS Courier Client US Mail Other

Shipping container/cooler in good condition? Yes No Not Present

Custody seals intact on shipping container/cooler? Yes No Not Present

Custody seals intact on sample bottles? Yes No Not Present

Container/Temp Blank temperature in compliance? (4°C±2)* Yes No

Cooler #1 _____ Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present? Yes No

Chain of custody signed when relinquished and received? Yes No

Chain of custody agrees with sample labels? Yes No

Samples in proper container/bottle? Yes No

Sample containers intact? Yes No

Sufficient sample volume for indicated test? Yes No

All samples received within holding time? PT 6/28/13 Yes No

Was TAT marked on the COC? Yes No

Proceed with Standard TAT as per project history? Yes No Not Applicable

Water - VOA vials have zero headspace? No VOA vials submitted Yes No

Water - pH acceptable upon receipt? Yes No Not Applicable

Adjusted? _____ Checked by _____

Sample Condition: Good Other(Explain) _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes No

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

Client: Arcadis
 Project: Lafarge EP
 Lab Order: 1306Q20

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1306Q20-001A	ZONE 2-SP-4	6/28/2013 12:55:00PM	Soil	VOLATILES, TCLP Leached	06/28/2013	07/01/2013	07/01/2013
1306Q20-001B	ZONE 2-SP-4	6/28/2013 12:55:00PM	Soil	MERCURY, TCLP Leached	06/28/2013	07/01/2013	07/01/2013
1306Q20-001B	ZONE 2-SP-4	6/28/2013 12:55:00PM	Soil	ICP METALS, TCLP Leached	06/28/2013	07/01/2013	07/01/2013
1306Q20-001B	ZONE 2-SP-4	6/28/2013 12:55:00PM	Soil	POLYNUCLEAR AROMATIC HYDROCARBONS		07/01/2013	07/01/2013
1306Q20-001C	ZONE 2-SP-4	6/28/2013 12:55:00PM	Soil	Cyanide, Reactive		07/01/2013	07/01/2013
1306Q20-001C	ZONE 2-SP-4	6/28/2013 12:55:00PM	Soil	Sulfide, Reactive		07/01/2013	07/01/2013
1306Q20-001D	ZONE 2-SP-4	6/28/2013 12:55:00PM	Soil	IGNITABILITY			07/01/2013
1306Q20-001D	ZONE 2-SP-4	6/28/2013 12:55:00PM	Soil	Laboratory Hydrogen Ion (pH)		07/01/2013	07/01/2013

Client: Arcadis
 Project Name: Lafarge EP
 Workorder: 1306Q20

ANALYTICAL QC SUMMARY REPORT

BatchID: 178065

Sample ID: MB-178065	Client ID:	Units: ug/L	Prep Date: 07/01/2013	Run No: 247139							
SampleType: MBLK	TestCode: POLYAROMATIC HYDROCARBONS SW8270D	BatchID: 178065	Analysis Date: 07/01/2013	Seq No: 5179098							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1-Methylnaphthalene	BRL	100									
2-Methylnaphthalene	BRL	100									
Acenaphthene	BRL	100									
Acenaphthylene	BRL	100									
Anthracene	BRL	100									
Benz(a)anthracene	BRL	100									
Benzo(a)pyrene	BRL	100									
Benzo(b)fluoranthene	BRL	100									
Benzo(g,h,i)perylene	BRL	100									
Benzo(k)fluoranthene	BRL	100									
Chrysene	BRL	100									
Dibenz(a,h)anthracene	BRL	100									
Fluoranthene	BRL	100									
Fluorene	BRL	100									
Indeno(1,2,3-cd)pyrene	BRL	100									
Naphthalene	BRL	100									
Phenanthrene	BRL	100									
Pyrene	BRL	100									
Surr: 2-Fluorobiphenyl	224.5	0	500.0		44.9	40.6	116				
Surr: 4-Terphenyl-d14	275.7	0	500.0		55.1	51.8	124				
Surr: Nitrobenzene-d5	255.0	0	500.0		51.0	35	118				

Sample ID: LCS-178065	Client ID:	Units: ug/L	Prep Date: 07/01/2013	Run No: 247139							
SampleType: LCS	TestCode: POLYAROMATIC HYDROCARBONS SW8270D	BatchID: 178065	Analysis Date: 07/01/2013	Seq No: 5179099							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1-Methylnaphthalene	358.9	100	500.0		71.8	52.5	120				
---------------------	-------	-----	-------	--	------	------	-----	--	--	--	--

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
 Project Name: Lafarge EP
 Workorder: 1306Q20

ANALYTICAL QC SUMMARY REPORT

BatchID: 178065

Sample ID: LCS-178065	Client ID:	Units: ug/L	Prep Date: 07/01/2013	Run No: 247139							
SampleType: LCS	TestCode: POLYAROMATIC HYDROCARBONS SW8270D	BatchID: 178065	Analysis Date: 07/01/2013	Seq No: 5179099							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2-Methylnaphthalene	328.6	100	500.0		65.7	50.9	120				
Acenaphthene	334.0	100	500.0		66.8	49	120				
Acenaphthylene	336.8	100	500.0		67.4	58.5	123				
Anthracene	346.2	100	500.0		69.2	55.6	120				
Benz(a)anthracene	345.6	100	500.0		69.1	52.6	120				
Benzo(a)pyrene	317.4	100	500.0		63.5	53	120				
Benzo(b)fluoranthene	356.3	100	500.0		71.3	49.5	120				
Benzo(g,h,i)perylene	376.9	100	500.0		75.4	50	120				
Benzo(k)fluoranthene	343.6	100	500.0		68.7	50	120				
Chrysene	314.7	100	500.0		62.9	51.3	120				
Dibenz(a,h)anthracene	372.8	100	500.0		74.6	50.1	120				
Fluoranthene	346.2	100	500.0		69.2	59.5	124				
Fluorene	353.1	100	500.0		70.6	51.1	120				
Indeno(1,2,3-cd)pyrene	378.5	100	500.0		75.7	51.1	120				
Naphthalene	325.9	100	500.0		65.2	50.8	120				
Phenanthrene	333.5	100	500.0		66.7	54.4	120				
Pyrene	319.6	100	500.0		63.9	52.7	120				
Surr: 2-Fluorobiphenyl	340.5	0	500.0		68.1	40.6	116				
Surr: 4-Terphenyl-d14	395.9	0	500.0		79.2	51.8	124				
Surr: Nitrobenzene-d5	369.6	0	500.0		73.9	35	118				

Sample ID: 1306Q19-001BMS	Client ID:	Units: ug/L	Prep Date: 07/01/2013	Run No: 247139							
SampleType: MS	TestCode: POLYAROMATIC HYDROCARBONS SW8270D	BatchID: 178065	Analysis Date: 07/01/2013	Seq No: 5180320							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1-Methylnaphthalene	383.0	100	500.0		76.6	41.7	120				
2-Methylnaphthalene	357.7	100	500.0		71.5	40.2	120				
Acenaphthene	350.6	100	500.0		70.1	40.6	120				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
 Project Name: Lafarge EP
 Workorder: 1306Q20

ANALYTICAL QC SUMMARY REPORT

BatchID: 178065

Sample ID: 1306Q19-001BMS	Client ID:	Units: ug/L	Prep Date: 07/01/2013	Run No: 247139							
SampleType: MS	TestCode: POLYAROMATIC HYDROCARBONS SW8270D	BatchID: 178065	Analysis Date: 07/01/2013	Seq No: 5180320							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Acenaphthylene	359.0	100	500.0		71.8	43.3	123				
Anthracene	366.6	100	500.0		73.3	49.3	120				
Benz(a)anthracene	384.0	100	500.0		76.8	50.4	120				
Benzo(a)pyrene	331.6	100	500.0		66.3	49.4	120				
Benzo(b)fluoranthene	381.6	100	500.0		76.3	47.7	120				
Benzo(g,h,i)perylene	414.6	100	500.0		82.9	45.4	120				
Benzo(k)fluoranthene	348.6	100	500.0		69.7	48.4	120				
Chrysene	336.1	100	500.0		67.2	50.9	120				
Dibenz(a,h)anthracene	427.1	100	500.0		85.4	49.3	120				
Fluoranthene	365.7	100	500.0		73.1	51.8	124				
Fluorene	367.7	100	500.0		73.5	44.4	120				
Indeno(1,2,3-cd)pyrene	412.7	100	500.0		82.5	50.9	120				
Naphthalene	340.2	100	500.0		68.0	35.7	120				
Phenanthrene	349.8	100	500.0		70.0	48.8	120				
Pyrene	328.0	100	500.0		65.6	50.9	120				
Surr: 2-Fluorobiphenyl	344.3	0	500.0		68.9	40.6	116				
Surr: 4-Terphenyl-d14	396.5	0	500.0		79.3	51.8	124				
Surr: Nitrobenzene-d5	377.9	0	500.0		75.6	35	118				

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
 Project Name: Lafarge EP
 Workorder: 1306Q20

ANALYTICAL QC SUMMARY REPORT

BatchID: 178080

Sample ID: MB-178080	Client ID:	Units: mg/L	Prep Date: 07/01/2013	Run No: 247123							
SampleType: MBLK	TestCode: MERCURY, TCLP SW1311/7470A	BatchID: 178080	Analysis Date: 07/01/2013	Seq No: 5178870							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Mercury BRL 0.00400

Sample ID: LCS-178080	Client ID:	Units: mg/L	Prep Date: 07/01/2013	Run No: 247123							
SampleType: LCS	TestCode: MERCURY, TCLP SW1311/7470A	BatchID: 178080	Analysis Date: 07/01/2013	Seq No: 5178875							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Mercury 0.03648 0.00400 0.0400 91.2 85 115

Sample ID: 1306Q19-001BMS	Client ID:	Units: mg/L	Prep Date: 07/01/2013	Run No: 247123							
SampleType: MS	TestCode: MERCURY, TCLP SW1311/7470A	BatchID: 178080	Analysis Date: 07/01/2013	Seq No: 5178877							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Mercury 0.03853 0.00400 0.0400 96.3 80 120

Sample ID: 1306Q19-001BMSD	Client ID:	Units: mg/L	Prep Date: 07/01/2013	Run No: 247123							
SampleType: MSD	TestCode: MERCURY, TCLP SW1311/7470A	BatchID: 178080	Analysis Date: 07/01/2013	Seq No: 5178879							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Mercury 0.04002 0.00400 0.0400 100 80 120 0.03853 3.78 20

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Arcadis
 Project Name: Lafarge EP
 Workorder: 1306Q20

ANALYTICAL QC SUMMARY REPORT

BatchID: 178089

Sample ID: MB-178089	Client ID:	Units: mg/L	Prep Date: 07/01/2013	Run No: 247184							
SampleType: MBLK	TestCode: ICP METALS, TCLP SW1311/6010C	BatchID: 178089	Analysis Date: 07/01/2013	Seq No: 5179594							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	BRL	0.250									
Barium	BRL	0.500									
Cadmium	BRL	0.0250									
Chromium	BRL	0.0500									
Lead	BRL	0.0500									
Selenium	BRL	0.100									
Silver	BRL	0.0250									

Sample ID: LCS-178089	Client ID:	Units: mg/L	Prep Date: 07/01/2013	Run No: 247184							
SampleType: LCS	TestCode: ICP METALS, TCLP SW1311/6010C	BatchID: 178089	Analysis Date: 07/01/2013	Seq No: 5179591							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	5.026	0.250	5.000		101	85	115				
Barium	5.094	0.500	5.000	0.07825	100	80	120				
Cadmium	5.124	0.0250	5.000		102	85	115				
Chromium	5.176	0.0500	5.000		104	85	115				
Lead	5.060	0.0500	5.000		101	85	115				
Selenium	4.980	0.100	5.000		99.6	85	115				
Silver	0.5105	0.0250	0.5000		102	85	115				

Sample ID: 1306Q20-001BMS	Client ID: ZONE 2-SP-4	Units: mg/L	Prep Date: 07/01/2013	Run No: 247184							
SampleType: MS	TestCode: ICP METALS, TCLP SW1311/6010C	BatchID: 178089	Analysis Date: 07/01/2013	Seq No: 5179598							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	4.820	0.250	5.000		96.4	50	150				
Barium	5.474	0.500	5.000	0.8346	92.8	50	150				
Cadmium	4.747	0.0250	5.000	0.008299	94.8	50	150				
Chromium	4.714	0.0500	5.000	0.01762	93.9	50	150				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
 Project Name: Lafarge EP
 Workorder: 1306Q20

ANALYTICAL QC SUMMARY REPORT

BatchID: 178089

Sample ID: 1306Q20-001BMS	Client ID: ZONE 2-SP-4	Units: mg/L	Prep Date: 07/01/2013	Run No: 247184							
SampleType: MS	TestCode: ICP METALS, TCLP SW1311/6010C	BatchID: 178089	Analysis Date: 07/01/2013	Seq No: 5179598							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Lead	6.972	0.0500	5.000	2.404	91.4	50	150				
Selenium	4.900	0.100	5.000		98.0	50	150				
Silver	0.4745	0.0250	0.5000		94.9	50	150				

Sample ID: 1306Q20-001BMSD	Client ID: ZONE 2-SP-4	Units: mg/L	Prep Date: 07/01/2013	Run No: 247184							
SampleType: MSD	TestCode: ICP METALS, TCLP SW1311/6010C	BatchID: 178089	Analysis Date: 07/01/2013	Seq No: 5179599							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	4.980	0.250	5.000		99.6	50	150	4.820	3.25	30	
Barium	5.666	0.500	5.000	0.8346	96.6	50	150	5.474	3.46	30	
Cadmium	4.908	0.0250	5.000	0.008299	98.0	50	150	4.747	3.33	30	
Chromium	4.872	0.0500	5.000	0.01762	97.1	50	150	4.714	3.29	30	
Lead	7.161	0.0500	5.000	2.404	95.1	50	150	6.972	2.68	30	
Selenium	5.034	0.100	5.000		101	50	150	4.900	2.70	30	
Silver	0.4893	0.0250	0.5000		97.9	50	150	0.4745	3.08	30	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
 Project Name: Lafarge EP
 Workorder: 1306Q20

ANALYTICAL QC SUMMARY REPORT

BatchID: 178106

Sample ID: MB-178106	Client ID:	Units: mg/L	Prep Date: 07/01/2013	Run No: 247147							
SampleType: MBLK	TestCode: VOLATILES, TCLP SW1311/8260B	BatchID: 178106	Analysis Date: 07/01/2013	Seq No: 5178864							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	BRL	0.10									
1,2-Dichloroethane	BRL	0.10									
2-Butanone	BRL	0.20									
Benzene	BRL	0.10									
Carbon tetrachloride	BRL	0.10									
Chlorobenzene	BRL	0.10									
Chloroform	BRL	0.10									
Tetrachloroethene	BRL	0.10									
Trichloroethene	BRL	0.10									
Vinyl chloride	BRL	0.040									
Surr: 4-Bromofluorobenzene	0.8930	0	1.000		89.3	65	129				
Surr: Dibromofluoromethane	0.9712	0	1.000		97.1	72.3	129				
Surr: Toluene-d8	0.9232	0	1.000		92.3	74.2	118				

Sample ID: LCS-178106	Client ID:	Units: mg/L	Prep Date: 07/01/2013	Run No: 247147							
SampleType: LCS	TestCode: VOLATILES, TCLP SW1311/8260B	BatchID: 178106	Analysis Date: 07/01/2013	Seq No: 5178760							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	0.7888	0.10	1.000		78.9	53	139				
1,2-Dichloroethane	0.7734	0.10	1.000		77.3	62	143				
2-Butanone	1.682	0.20	2.000		84.1	42	146				
Benzene	0.8582	0.10	1.000		85.8	70.6	128				
Carbon tetrachloride	0.7994	0.10	1.000		79.9	56	146				
Chlorobenzene	0.8554	0.10	1.000		85.5	73	121				
Chloroform	0.8598	0.10	1.000		86.0	64.6	129				
Tetrachloroethene	0.8628	0.10	1.000		86.3	70.5	131				
Trichloroethene	0.8106	0.10	1.000		81.1	69.3	129				
Vinyl chloride	0.7418	0.040	1.000		74.2	46.1	139				

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
Project Name: Lafarge EP
Workorder: 1306Q20

ANALYTICAL QC SUMMARY REPORT

BatchID: 178106

Sample ID: LCS-178106	Client ID:	Units: mg/L	Prep Date: 07/01/2013	Run No: 247147							
SampleType: LCS	TestCode: VOLATILES, TCLP SW1311/8260B	BatchID: 178106	Analysis Date: 07/01/2013	Seq No: 5178760							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Surr: 4-Bromofluorobenzene	0.9894	0	1.000		98.9	65	129				
Surr: Dibromofluoromethane	0.9952	0	1.000		99.5	72.3	129				
Surr: Toluene-d8	0.9712	0	1.000		97.1	74.2	118				

Sample ID: 1306Q20-001AMS	Client ID: ZONE 2-SP-4	Units: mg/L	Prep Date: 07/01/2013	Run No: 247147							
SampleType: MS	TestCode: VOLATILES, TCLP SW1311/8260B	BatchID: 178106	Analysis Date: 07/01/2013	Seq No: 5179100							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	0.9264	0.10	1.000		92.6	52.3	155				
1,2-Dichloroethane	0.8584	0.10	1.000		85.8	58.3	144				
2-Butanone	1.679	0.20	2.000		83.9	39.1	160				
Benzene	1.012	0.10	1.000		101	70	139				
Carbon tetrachloride	0.9004	0.10	1.000		90.0	53.3	147				
Chlorobenzene	0.9554	0.10	1.000		95.5	72.2	132				
Chloroform	1.012	0.10	1.000		101	63.7	135				
Tetrachloroethene	0.9628	0.10	1.000		96.3	70	148				
Trichloroethene	0.9326	0.10	1.000		93.3	67.8	149				
Vinyl chloride	0.9270	0.040	1.000		92.7	46.1	152				
Surr: 4-Bromofluorobenzene	1.021	0	1.000		102	65	129				
Surr: Dibromofluoromethane	1.023	0	1.000		102	72.3	129				
Surr: Toluene-d8	0.9922	0	1.000		99.2	74.2	118				

Sample ID: 1306Q20-001ADUP	Client ID: ZONE 2-SP-4	Units: mg/L	Prep Date: 07/01/2013	Run No: 247147							
SampleType: DUP	TestCode: VOLATILES, TCLP SW1311/8260B	BatchID: 178106	Analysis Date: 07/01/2013	Seq No: 5179378							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	BRL	0.10						0	0	30	
1,2-Dichloroethane	BRL	0.10						0	0	30	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
 Project Name: Lafarge EP
 Workorder: 1306Q20

ANALYTICAL QC SUMMARY REPORT

BatchID: 178106

Sample ID: 1306Q20-001ADUP	Client ID: ZONE 2-SP-4	Units: mg/L	Prep Date: 07/01/2013	Run No: 247147
SampleType: DUP	TestCode: VOLATILES, TCLP SW1311/8260B	BatchID: 178106	Analysis Date: 07/01/2013	Seq No: 5179378

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
2-Butanone	BRL	0.20						0	0	30	
Benzene	BRL	0.10						0	0	30	
Carbon tetrachloride	BRL	0.10						0	0	30	
Chlorobenzene	BRL	0.10						0	0	30	
Chloroform	BRL	0.10						0	0	30	
Tetrachloroethene	BRL	0.10						0	0	30	
Trichloroethene	BRL	0.10						0	0	30	
Vinyl chloride	BRL	0.040						0	0	30	
Surr: 4-Bromofluorobenzene	0.8812	0	1.000		88.1	65	129	0.8814	0	0	
Surr: Dibromofluoromethane	0.9416	0	1.000		94.2	72.3	129	0.9698	0	0	
Surr: Toluene-d8	0.9182	0	1.000		91.8	74.2	118	0.9208	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
 Project Name: Lafarge EP
 Workorder: 1306Q20

ANALYTICAL QC SUMMARY REPORT

BatchID: 178117

Sample ID: MB-178117	Client ID:	Units: mg/Kg	Prep Date: 07/01/2013	Run No: 247181							
SampleType: MBLK	TestCode: Cyanide, Reactive SW7.3.3.2	BatchID: 178117	Analysis Date: 07/01/2013	Seq No: 5179537							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Cyanide, Reactive

BRL 1.00

Sample ID: LCS-178117	Client ID:	Units: mg/Kg	Prep Date: 07/01/2013	Run No: 247181							
SampleType: LCS	TestCode: Cyanide, Reactive SW7.3.3.2	BatchID: 178117	Analysis Date: 07/01/2013	Seq No: 5179538							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Cyanide, Reactive

8.660 1.00 12.50 69.3 50 150

Sample ID: 1306Q20-001CMS	Client ID: ZONE 2-SP-4	Units: mg/Kg	Prep Date: 07/01/2013	Run No: 247181							
SampleType: MS	TestCode: Cyanide, Reactive SW7.3.3.2	BatchID: 178117	Analysis Date: 07/01/2013	Seq No: 5179542							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Cyanide, Reactive

4.360 1.00 12.50 34.9 19.9 120

Sample ID: 1306Q20-001CMSD	Client ID: ZONE 2-SP-4	Units: mg/Kg	Prep Date: 07/01/2013	Run No: 247181							
SampleType: MSD	TestCode: Cyanide, Reactive SW7.3.3.2	BatchID: 178117	Analysis Date: 07/01/2013	Seq No: 5179544							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Cyanide, Reactive

4.310 1.00 12.50 34.5 19.9 120 4.360 1.15 30

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	

Client: Arcadis
 Project Name: Lafarge EP
 Workorder: 1306Q20

ANALYTICAL QC SUMMARY REPORT

BatchID: 178129

Sample ID: LCS-178129	Client ID:	Units: pH Units	Prep Date: 07/01/2013	Run No: 247192							
SampleType: LCS	TestCode: Laboratory Hydrogen Ion (pH) SW9045D	BatchID: 178129	Analysis Date: 07/01/2013	Seq No: 5179816							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

pH 7.050 0.01 7.000 101 90 110

Sample ID: 1306M29-003ADUP	Client ID:	Units: pH Units	Prep Date: 07/01/2013	Run No: 247192							
SampleType: DUP	TestCode: Laboratory Hydrogen Ion (pH) SW9045D	BatchID: 178129	Analysis Date: 07/01/2013	Seq No: 5179818							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

pH 5.360 0.01 5.290 1.31 10 H

Sample ID: 1306Q36-001ADUP	Client ID:	Units: pH Units	Prep Date: 07/01/2013	Run No: 247192							
SampleType: DUP	TestCode: Laboratory Hydrogen Ion (pH) SW9045D	BatchID: 178129	Analysis Date: 07/01/2013	Seq No: 5179831							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

pH 6.150 0.01 6.210 0.971 10 H

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	

Client: Arcadis
 Project Name: Lafarge EP
 Workorder: 1306Q20

ANALYTICAL QC SUMMARY REPORT

BatchID: 178131

Sample ID: MB-178131	Client ID:	Units: mg/Kg	Prep Date: 07/01/2013	Run No: 247194							
SampleType: MBLK	TestCode: Sulfide, Reactive SW7.3.4.2	BatchID: 178131	Analysis Date: 07/01/2013	Seq No: 5179869							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Sulfide, Reactive

BRL 100

Sample ID: LCS-178131	Client ID:	Units: mg/Kg	Prep Date: 07/01/2013	Run No: 247194							
SampleType: LCS	TestCode: Sulfide, Reactive SW7.3.4.2	BatchID: 178131	Analysis Date: 07/01/2013	Seq No: 5179870							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Sulfide, Reactive

1580 100 2000 79.0 30 120

Sample ID: 1306Q20-001CMS	Client ID: ZONE 2-SP-4	Units: mg/Kg	Prep Date: 07/01/2013	Run No: 247194							
SampleType: MS	TestCode: Sulfide, Reactive SW7.3.4.2	BatchID: 178131	Analysis Date: 07/01/2013	Seq No: 5179874							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Sulfide, Reactive

496.0 100 800.0 62.0 27.8 117

Sample ID: 1306Q20-001CMSD	Client ID: ZONE 2-SP-4	Units: mg/Kg	Prep Date: 07/01/2013	Run No: 247194							
SampleType: MSD	TestCode: Sulfide, Reactive SW7.3.4.2	BatchID: 178131	Analysis Date: 07/01/2013	Seq No: 5179875							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Sulfide, Reactive

496.0 100 800.0 62.0 27.8 117 496.0 0 27

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	

Client: Arcadis
 Project Name: Lafarge EP
 Workorder: 1306Q20

ANALYTICAL QC SUMMARY REPORT

BatchID: R247153

Sample ID: LCS-R247153	Client ID:	Units: °F	Prep Date:	Run No: 247153							
SampleType: LCS	TestCode: Ignitability SW1010A	BatchID: R247153	Analysis Date: 07/01/2013	Seq No: 5178793							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ignitability	80.00	0	80.00		100	93.8	106.2				
--------------	-------	---	-------	--	-----	------	-------	--	--	--	--

Sample ID: 1306M76-001ADUP	Client ID:	Units: °F	Prep Date:	Run No: 247153							
SampleType: DUP	TestCode: Ignitability SW1010A	BatchID: R247153	Analysis Date: 07/01/2013	Seq No: 5178800							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ignitability	180.0	0						180.0	0	20	>
--------------	-------	---	--	--	--	--	--	-------	---	----	---

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		



July 03, 2013

Peter Cornais
Arcadis
2081 Vista Parkway, Suite 200
West Palm Beach FL 33411

TEL: (850) 445-0829
FAX:

RE: Lafarge East Point

Dear Peter Cornais:

Order No: 1306C25

Analytical Environmental Services, Inc. received 1 samples on 6/13/2013 3:20:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/13-06/30/14.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/15.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Chantelle Kanhai
Project Manager



ANALYTICAL ENVIRONMENTAL SERVICES, INC

3785 Presidential Parkway, Atlanta GA 30340-3704

AES TEL: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1306025

Date: 6/13/13 Page 1 of 1

COMPANY: ARCADIS		ADDRESS: 1000 Cobb Place Blvd Bldg 500A Kennesaw GA 30144			ANALYSIS REQUESTED					Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.		No # of Containers		
PHONE: 404-952-1602		FAX: Cecilia Reagan e arcadis-us.com			TULP VOC Test reactivity ignitability explosive TULP VOC REACT TULP REACT mtrms									
SAMPLED BY: Komaloney, M. Myers		SIGNATURE: <i>[Signature]</i>			PRESERVATION (See codes)					REMARKS				
#	SAMPLE ID	SAMPLED		Grab	Composite	Matrix (See codes)					REMARKS	No # of Containers		
		DATE	TIME				I	H	I	I				
1	Zone 5 - SP 4	6/13/13	1150	X		SO	2	1	1	1	1	Hold Sample for SVOC full list, Herbicides, Pesticides	5	
2														
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														
13														
14														
RELINQUISHED BY		DATE/TIME		RECEIVED BY		DATE/TIME		PROJECT INFORMATION					RECEIPT	
1: <i>[Signature]</i>		6/13/13 1520		1: <i>[Signature]</i>		6/13/13 350		PROJECT NAME: La Forge East Pant					Total # of Containers: 5	
2:				2:				PROJECT #: HT2T2526					Turnaround Time Request	
3:				3:				SITE ADDRESS: 2675 N. Martin St					Standard 5 Business Days	
								SEND REPORT TO: peter.cornas@arcadis-us.com					2 Business Day Rush	
								INVOICE TO: Com					Next Business Day Rush	
								(IF DIFFERENT FROM ABOVE)					Same Day Rush (auth req.)	
SPECIAL INSTRUCTIONS/COMMENTS:				SHIPMENT METHOD									Other	
24 hr TAT				OUT		VIA:							STATE PROGRAM (if any):	
				IN		VIA:							E-mail? Y/N; Fax? Y/N	
				CLIENT		FedEx UPS MAIL COURIER							DATA PACKAGE: I II III IV	
				GREYHOUND		OTHER								

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES. SAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMPLETION UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water

PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

Client: Arcadis
Project: Lafarge East Point
Lab ID: 1306C25

Case Narrative

pH Analysis by Method 9045D:

Samples for pH analysis by Method 9045D were received and analyzed outside holding time requirement of "immediate or 15 minutes".

Analytical Environmental Services, Inc

Date: 3-Jul-13

Client: Arcadis	Client Sample ID: ZONE 5-SP-4
Project Name: Lafarge East Point	Collection Date: 6/13/2013 11:50:00 AM
Lab ID: 1306C25-001	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
VOLATILES, TCLP SW1311/8260B		(SW1311)						
1,1-Dichloroethene	BRL	0.10		mg/L	177505	20	06/15/2013 17:59	NP
1,2-Dichloroethane	BRL	0.10		mg/L	177505	20	06/15/2013 17:59	NP
2-Butanone	BRL	0.20		mg/L	177505	20	06/15/2013 17:59	NP
Benzene	BRL	0.10		mg/L	177505	20	06/15/2013 17:59	NP
Carbon tetrachloride	BRL	0.10		mg/L	177505	20	06/15/2013 17:59	NP
Chlorobenzene	BRL	0.10		mg/L	177505	20	06/15/2013 17:59	NP
Chloroform	BRL	0.10		mg/L	177505	20	06/15/2013 17:59	NP
Tetrachloroethene	BRL	0.10		mg/L	177505	20	06/15/2013 17:59	NP
Trichloroethene	BRL	0.10		mg/L	177505	20	06/15/2013 17:59	NP
Vinyl chloride	BRL	0.040		mg/L	177505	20	06/15/2013 17:59	NP
Surr: 4-Bromofluorobenzene	83.1	65-129		%REC	177505	20	06/15/2013 17:59	NP
Surr: Dibromofluoromethane	107	72.3-129		%REC	177505	20	06/15/2013 17:59	NP
Surr: Toluene-d8	96.7	74.2-118		%REC	177505	20	06/15/2013 17:59	NP
Sulfide, Reactive SW7.3.4.2		(SW7.3.4.2)						
Sulfide, Reactive	BRL	100		mg/Kg	177550	1	06/17/2013 17:00	AS
POLYAROMATIC HYDROCARBONS SW8270D		(SW3535A)						
Naphthalene	BRL	100		ug/L	177471	1	06/17/2013 16:11	EI
Acenaphthylene	BRL	100		ug/L	177471	1	06/17/2013 16:11	EI
1-Methylnaphthalene	BRL	100		ug/L	177471	1	06/17/2013 16:11	EI
2-Methylnaphthalene	BRL	100		ug/L	177471	1	06/17/2013 16:11	EI
Acenaphthene	BRL	100		ug/L	177471	1	06/17/2013 16:11	EI
Fluorene	BRL	100		ug/L	177471	1	06/17/2013 16:11	EI
Phenanthrene	BRL	100		ug/L	177471	1	06/17/2013 16:11	EI
Anthracene	BRL	100		ug/L	177471	1	06/17/2013 16:11	EI
Fluoranthene	BRL	100		ug/L	177471	1	06/17/2013 16:11	EI
Pyrene	BRL	100		ug/L	177471	1	06/17/2013 16:11	EI
Benz(a)anthracene	BRL	100		ug/L	177471	1	06/17/2013 16:11	EI
Chrysene	BRL	100		ug/L	177471	1	06/17/2013 16:11	EI
Benzo(b)fluoranthene	BRL	100		ug/L	177471	1	06/17/2013 16:11	EI
Benzo(k)fluoranthene	BRL	100		ug/L	177471	1	06/17/2013 16:11	EI
Benzo(a)pyrene	BRL	100		ug/L	177471	1	06/17/2013 16:11	EI
Dibenz(a,h)anthracene	BRL	100		ug/L	177471	1	06/17/2013 16:11	EI
Benzo(g,h,i)perylene	BRL	100		ug/L	177471	1	06/17/2013 16:11	EI
Indeno(1,2,3-cd)pyrene	BRL	100		ug/L	177471	1	06/17/2013 16:11	EI
Surr: Nitrobenzene-d5	105	35-118		%REC	177471	1	06/17/2013 16:11	EI
Surr: 2-Fluorobiphenyl	103	40.6-116		%REC	177471	1	06/17/2013 16:11	EI
Surr: 4-Terphenyl-d14	122	51.8-124		%REC	177471	1	06/17/2013 16:11	EI
MERCURY, TCLP SW1311/7470A		(SW7470A)						

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 3-Jul-13

Client: Arcadis	Client Sample ID: ZONE 5-SP-4
Project Name: Lafarge East Point	Collection Date: 6/13/2013 11:50:00 AM
Lab ID: 1306C25-001	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
MERCURY, TCLP SW1311/7470A					(SW7470A)			
Mercury	BRL	0.00400		mg/L	177489	1	06/17/2013 16:20	JY
Laboratory Hydrogen Ion (pH) SW9045D					(SW9045D)			
pH	7.60	0.01	H	pH Units	177540	1	06/17/2013 11:35	DM
Ignitability SW1010A								
Ignitability	180	0	>	°F	R246186	1	06/17/2013 15:00	LW
ICP METALS, TCLP SW1311/6010C					(SW3010A)			
Arsenic	BRL	0.250		mg/L	177452	1	06/17/2013 13:01	JY
Barium	1.38	0.500		mg/L	177452	1	06/17/2013 13:01	JY
Cadmium	BRL	0.0250		mg/L	177452	1	06/17/2013 13:01	JY
Chromium	BRL	0.0500		mg/L	177452	1	06/17/2013 13:01	JY
Lead	0.930	0.0500		mg/L	177452	1	06/17/2013 13:01	JY
Selenium	BRL	0.100		mg/L	177452	1	06/17/2013 13:01	JY
Silver	BRL	0.0250		mg/L	177452	1	06/17/2013 13:01	JY
Cyanide, Reactive SW7.3.3.2					(SW7.3.3.2)			
Cyanide, Reactive	BRL	0.952		mg/Kg	177555	1	06/17/2013 18:00	CG

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Argodes

Work Order Number 1306005

Checklist completed by [Signature] Date 6/13/02

Carrier name: FedEx UPS Courier Client US Mail Other

Shipping container/cooler in good condition? Yes No Not Present

Custody seals intact on shipping container/cooler? Yes No Not Present

Custody seals intact on sample bottles? Yes No Not Present

Container/Temp Blank temperature in compliance? (4°C±2)* Yes No

Cooler #1 3.5 Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler #5 _____ Cooler #6 _____

Chain of custody present? Yes No

Chain of custody signed when relinquished and received? Yes No

Chain of custody agrees with sample labels? Yes No

Samples in proper container/bottle? Yes No

Sample containers intact? Yes No

Sufficient sample volume for indicated test? Yes No

All samples received within holding time? Yes No

Was TAT marked on the COC? Yes No

Proceed with Standard TAT as per project history? Yes No Not Applicable

Water - VOA vials have zero headspace? No VOA vials submitted Yes No

Water - pH acceptable upon receipt? Yes No Not Applicable

Adjusted? _____ Checked by _____

Sample Condition: Good Other(Explain) _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes No

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

Client: Arcadis
Project: Lafarge East Point
Lab Order: 1306C25

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1306C25-001A	ZONE 5-SP-4	6/13/2013 11:50:00AM	Soil	VOLATILES, TCLP Leached	06/13/2013	06/15/2013	06/15/2013
1306C25-001B	ZONE 5-SP-4	6/13/2013 11:50:00AM	Soil	IGNITABILITY			06/17/2013
1306C25-001B	ZONE 5-SP-4	6/13/2013 11:50:00AM	Soil	Cyanide, Reactive		06/17/2013	06/17/2013
1306C25-001B	ZONE 5-SP-4	6/13/2013 11:50:00AM	Soil	Sulfide, Reactive		06/17/2013	06/17/2013
1306C25-001B	ZONE 5-SP-4	6/13/2013 11:50:00AM	Soil	Laboratory Hydrogen Ion (pH)		06/17/2013	06/17/2013
1306C25-001C	ZONE 5-SP-4	6/13/2013 11:50:00AM	Soil	MERCURY, TCLP Leached	06/17/2013	06/17/2013	06/17/2013
1306C25-001C	ZONE 5-SP-4	6/13/2013 11:50:00AM	Soil	ICP METALS, TCLP Leached	06/17/2013	06/17/2013	06/17/2013
1306C25-001C	ZONE 5-SP-4	6/13/2013 11:50:00AM	Soil	POLYNUCLEAR AROMATIC HYDROCARBONS		06/17/2013	06/17/2013

Client: Arcadis
 Project Name: Lafarge East Point
 Workorder: 1306C25

ANALYTICAL QC SUMMARY REPORT

BatchID: 177452

Sample ID: MB-177452	Client ID:	Units: mg/L	Prep Date: 06/17/2013	Run No: 246143							
SampleType: MBLK	TestCode: ICP METALS, TCLP SW1311/6010C	BatchID: 177452	Analysis Date: 06/17/2013	Seq No: 5156374							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	BRL	0.250									
Barium	BRL	0.500									
Cadmium	BRL	0.0250									
Chromium	BRL	0.0500									
Lead	BRL	0.0500									
Selenium	BRL	0.100									
Silver	BRL	0.0250									

Sample ID: LCS-177452	Client ID:	Units: mg/L	Prep Date: 06/17/2013	Run No: 246143							
SampleType: LCS	TestCode: ICP METALS, TCLP SW1311/6010C	BatchID: 177452	Analysis Date: 06/17/2013	Seq No: 5156373							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	5.184	0.250	5.000		104	85	115				
Barium	4.889	0.500	5.000	0.08800	96.0	80	120				
Cadmium	4.993	0.0250	5.000		99.9	85	115				
Chromium	4.974	0.0500	5.000		99.5	85	115				
Lead	4.888	0.0500	5.000		97.8	85	115				
Selenium	5.221	0.100	5.000		104	85	115				
Silver	0.4834	0.0250	0.5000		96.7	85	115				

Sample ID: 1306A81-001AMS	Client ID:	Units: mg/L	Prep Date: 06/17/2013	Run No: 246143							
SampleType: MS	TestCode: ICP METALS, TCLP SW1311/6010C	BatchID: 177452	Analysis Date: 06/17/2013	Seq No: 5156381							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	5.233	0.250	5.000		105	50	150				
Barium	5.175	0.500	5.000	0.1184	101	50	150				
Cadmium	5.288	0.0250	5.000	0.1549	103	50	150				
Chromium	6.390	0.0500	5.000	2.128	85.2	50	150				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
 Project Name: Lafarge East Point
 Workorder: 1306C25

ANALYTICAL QC SUMMARY REPORT

BatchID: 177452

Sample ID: 1306A81-001AMS	Client ID:	Units: mg/L	Prep Date: 06/17/2013	Run No: 246143							
SampleType: MS	TestCode: ICP METALS, TCLP SW1311/6010C	BatchID: 177452	Analysis Date: 06/17/2013	Seq No: 5156381							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Lead	5.218	0.0500	5.000	0.2519	99.3	50	150				
Selenium	5.288	0.100	5.000		106	50	150				
Silver	0.5040	0.0250	0.5000		101	50	150				

Sample ID: 1306A81-001AMSD	Client ID:	Units: mg/L	Prep Date: 06/17/2013	Run No: 246143							
SampleType: MSD	TestCode: ICP METALS, TCLP SW1311/6010C	BatchID: 177452	Analysis Date: 06/17/2013	Seq No: 5156382							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	5.221	0.250	5.000		104	50	150	5.233	0.223	30	
Barium	5.150	0.500	5.000	0.1184	101	50	150	5.175	0.470	30	
Cadmium	5.270	0.0250	5.000	0.1549	102	50	150	5.288	0.335	30	
Chromium	6.399	0.0500	5.000	2.128	85.4	50	150	6.390	0.140	30	
Lead	5.200	0.0500	5.000	0.2519	99.0	50	150	5.218	0.362	30	
Selenium	5.276	0.100	5.000		106	50	150	5.288	0.218	30	
Silver	0.5023	0.0250	0.5000		100	50	150	0.5040	0.348	30	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
Project Name: Lafarge East Point
Workorder: 1306C25

ANALYTICAL QC SUMMARY REPORT

BatchID: 177471

Sample ID: MB-177471	Client ID:	Units: ug/L	Prep Date: 06/17/2013	Run No: 246157							
SampleType: MBLK	TestCode: POLYAROMATIC HYDROCARBONS SW8270D	BatchID: 177471	Analysis Date: 06/17/2013	Seq No: 5156728							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1-Methylnaphthalene	BRL	100									
2-Methylnaphthalene	BRL	100									
Acenaphthene	BRL	100									
Acenaphthylene	BRL	100									
Anthracene	BRL	100									
Benz(a)anthracene	BRL	100									
Benzo(a)pyrene	BRL	100									
Benzo(b)fluoranthene	BRL	100									
Benzo(g,h,i)perylene	BRL	100									
Benzo(k)fluoranthene	BRL	100									
Chrysene	BRL	100									
Dibenz(a,h)anthracene	BRL	100									
Fluoranthene	BRL	100									
Fluorene	BRL	100									
Indeno(1,2,3-cd)pyrene	BRL	100									
Naphthalene	BRL	100									
Phenanthrene	BRL	100									
Pyrene	BRL	100									
Surr: 2-Fluorobiphenyl	476.6	0	500.0		95.3	40.6	116				
Surr: 4-Terphenyl-d14	548.5	0	500.0		110	51.8	124				
Surr: Nitrobenzene-d5	481.7	0	500.0		96.3	35	118				

Sample ID: LCS-177471	Client ID:	Units: ug/L	Prep Date: 06/17/2013	Run No: 246157							
SampleType: LCS	TestCode: POLYAROMATIC HYDROCARBONS SW8270D	BatchID: 177471	Analysis Date: 06/17/2013	Seq No: 5156750							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1-Methylnaphthalene	467.6	100	500.0		93.5	52.5	120				
2-Methylnaphthalene	448.4	100	500.0		89.7	50.9	120				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
Project Name: Lafarge East Point
Workorder: 1306C25

ANALYTICAL QC SUMMARY REPORT

BatchID: 177471

Sample ID: LCS-177471	Client ID:	Units: ug/L	Prep Date: 06/17/2013	Run No: 246157							
SampleType: LCS	TestCode: POLYAROMATIC HYDROCARBONS SW8270D	BatchID: 177471	Analysis Date: 06/17/2013	Seq No: 5156750							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Acenaphthene	441.2	100	500.0		88.2	49	120				
Acenaphthylene	447.0	100	500.0		89.4	58.5	123				
Anthracene	461.4	100	500.0		92.3	55.6	120				
Benz(a)anthracene	482.3	100	500.0		96.5	52.6	120				
Benzo(a)pyrene	413.1	100	500.0		82.6	53	120				
Benzo(b)fluoranthene	465.8	100	500.0		93.2	49.5	120				
Benzo(g,h,i)perylene	505.8	100	500.0		101	50	120				
Benzo(k)fluoranthene	442.8	100	500.0		88.6	50	120				
Chrysene	422.1	100	500.0		84.4	51.3	120				
Dibenz(a,h)anthracene	492.9	100	500.0		98.6	50.1	120				
Fluoranthene	467.1	100	500.0		93.4	59.5	124				
Fluorene	459.7	100	500.0		91.9	51.1	120				
Indeno(1,2,3-cd)pyrene	508.8	100	500.0		102	51.1	120				
Naphthalene	435.3	100	500.0		87.1	50.8	120				
Phenanthrene	450.1	100	500.0		90.0	54.4	120				
Pyrene	433.2	100	500.0		86.6	52.7	120				
Surr: 2-Fluorobiphenyl	447.4	0	500.0		89.5	40.6	116				
Surr: 4-Terphenyl-d14	530.5	0	500.0		106	51.8	124				
Surr: Nitrobenzene-d5	471.5	0	500.0		94.3	35	118				

Sample ID: 1306C23-001CMS	Client ID:	Units: ug/L	Prep Date: 06/17/2013	Run No: 246157							
SampleType: MS	TestCode: POLYAROMATIC HYDROCARBONS SW8270D	BatchID: 177471	Analysis Date: 06/17/2013	Seq No: 5158124							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1-Methylnaphthalene	503.7	100	500.0		101	41.7	120				
2-Methylnaphthalene	467.7	100	500.0		93.5	40.2	120				
Acenaphthene	470.2	100	500.0		94.0	40.6	120				
Acenaphthylene	469.5	100	500.0		93.9	43.3	123				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
 Project Name: Lafarge East Point
 Workorder: 1306C25

ANALYTICAL QC SUMMARY REPORT

BatchID: 177471

Sample ID: 1306C23-001CMS	Client ID:	Units: ug/L	Prep Date: 06/17/2013	Run No: 246157							
SampleType: MS	TestCode: POLYAROMATIC HYDROCARBONS SW8270D	BatchID: 177471	Analysis Date: 06/17/2013	Seq No: 5158124							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Anthracene	488.8	100	500.0		97.8	49.3	120				
Benz(a)anthracene	496.6	100	500.0		99.3	50.4	120				
Benzo(a)pyrene	435.5	100	500.0		87.1	49.4	120				
Benzo(b)fluoranthene	493.3	100	500.0		98.7	47.7	120				
Benzo(g,h,i)perylene	541.6	100	500.0		108	45.4	120				
Benzo(k)fluoranthene	470.7	100	500.0		94.1	48.4	120				
Chrysene	450.0	100	500.0		90.0	50.9	120				
Dibenz(a,h)anthracene	548.3	100	500.0		110	49.3	120				
Fluoranthene	486.7	100	500.0		97.3	51.8	124				
Fluorene	474.5	100	500.0		94.9	44.4	120				
Indeno(1,2,3-cd)pyrene	531.6	100	500.0		106	50.9	120				
Naphthalene	458.8	100	500.0		91.8	35.7	120				
Phenanthrene	469.9	100	500.0		94.0	48.8	120				
Pyrene	459.4	100	500.0		91.9	50.9	120				
Surr: 2-Fluorobiphenyl	456.6	0	500.0		91.3	40.6	116				
Surr: 4-Terphenyl-d14	542.3	0	500.0		108	51.8	124				
Surr: Nitrobenzene-d5	504.8	0	500.0		101	35	118				

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
Project Name: Lafarge East Point
Workorder: 1306C25

ANALYTICAL QC SUMMARY REPORT

BatchID: 177489

Sample ID: MB-177489	Client ID:	Units: mg/L	Prep Date: 06/17/2013	Run No: 246129							
SampleType: MBLK	TestCode: MERCURY, TCLP SW1311/7470A	BatchID: 177489	Analysis Date: 06/17/2013	Seq No: 5157300							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Mercury BRL 0.00400

Sample ID: LCS-177489	Client ID:	Units: mg/L	Prep Date: 06/17/2013	Run No: 246129							
SampleType: LCS	TestCode: MERCURY, TCLP SW1311/7470A	BatchID: 177489	Analysis Date: 06/17/2013	Seq No: 5157301							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Mercury 0.03704 0.00400 0.0400 92.6 85 115

Sample ID: 1306A81-001AMS	Client ID:	Units: mg/L	Prep Date: 06/17/2013	Run No: 246129							
SampleType: MS	TestCode: MERCURY, TCLP SW1311/7470A	BatchID: 177489	Analysis Date: 06/17/2013	Seq No: 5157303							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Mercury 0.03857 0.00400 0.0400 96.4 80 120

Sample ID: 1306A81-001AMSD	Client ID:	Units: mg/L	Prep Date: 06/17/2013	Run No: 246129							
SampleType: MSD	TestCode: MERCURY, TCLP SW1311/7470A	BatchID: 177489	Analysis Date: 06/17/2013	Seq No: 5157304							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Mercury 0.03821 0.00400 0.0400 95.5 80 120 0.03857 0.914 20

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Arcadis
 Project Name: Lafarge East Point
 Workorder: 1306C25

ANALYTICAL QC SUMMARY REPORT

BatchID: 177505

Sample ID: MB-177505	Client ID:	Units: mg/L	Prep Date: 06/15/2013	Run No: 246105							
SampleType: MBLK	TestCode: VOLATILES, TCLP SW1311/8260B	BatchID: 177505	Analysis Date: 06/15/2013	Seq No: 5155870							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	BRL	0.10									
1,2-Dichloroethane	BRL	0.10									
2-Butanone	BRL	0.20									
Benzene	BRL	0.10									
Carbon tetrachloride	BRL	0.10									
Chlorobenzene	BRL	0.10									
Chloroform	BRL	0.10									
Tetrachloroethene	BRL	0.10									
Trichloroethene	BRL	0.10									
Vinyl chloride	BRL	0.040									
Surr: 4-Bromofluorobenzene	0.8476	0	1.000		84.8	65	129				
Surr: Dibromofluoromethane	1.052	0	1.000		105	72.3	129				
Surr: Toluene-d8	0.9526	0	1.000		95.3	74.2	118				

Sample ID: LCS-177505	Client ID:	Units: mg/L	Prep Date: 06/15/2013	Run No: 246105							
SampleType: LCS	TestCode: VOLATILES, TCLP SW1311/8260B	BatchID: 177505	Analysis Date: 06/15/2013	Seq No: 5155868							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	0.9116	0.10	1.000		91.2	53	139				
1,2-Dichloroethane	0.8434	0.10	1.000		84.3	62	143				
2-Butanone	1.706	0.20	2.000		85.3	42	146				
Benzene	0.8684	0.10	1.000		86.8	70.6	128				
Carbon tetrachloride	0.8984	0.10	1.000		89.8	56	146				
Chlorobenzene	0.8566	0.10	1.000		85.7	73	121				
Chloroform	0.8670	0.10	1.000		86.7	64.6	129				
Tetrachloroethene	0.8280	0.10	1.000		82.8	70.5	131				
Trichloroethene	0.8138	0.10	1.000		81.4	69.3	129				
Vinyl chloride	0.6564	0.040	1.000		65.6	46.1	139				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
Project Name: Lafarge East Point
Workorder: 1306C25

ANALYTICAL QC SUMMARY REPORT

BatchID: 177505

Sample ID: LCS-177505	Client ID:	Units: mg/L	Prep Date: 06/15/2013	Run No: 246105							
SampleType: LCS	TestCode: VOLATILES, TCLP SW1311/8260B	BatchID: 177505	Analysis Date: 06/15/2013	Seq No: 5155868							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Surr: 4-Bromofluorobenzene	1.051	0	1.000		105	65	129				
Surr: Dibromofluoromethane	1.059	0	1.000		106	72.3	129				
Surr: Toluene-d8	1.053	0	1.000		105	74.2	118				

Sample ID: 1306C23-001AMS	Client ID:	Units: mg/L	Prep Date: 06/15/2013	Run No: 246105							
SampleType: MS	TestCode: VOLATILES, TCLP SW1311/8260B	BatchID: 177505	Analysis Date: 06/15/2013	Seq No: 5155872							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	1.242	0.10	1.000		124	52.3	155				
1,2-Dichloroethane	1.049	0.10	1.000		105	58.3	144				
2-Butanone	2.178	0.20	2.000		109	39.1	160				
Benzene	1.115	0.10	1.000		112	70	139				
Carbon tetrachloride	1.153	0.10	1.000		115	53.3	147				
Chlorobenzene	1.091	0.10	1.000		109	72.2	132				
Chloroform	1.101	0.10	1.000		110	63.7	135				
Tetrachloroethene	1.058	0.10	1.000		106	70	148				
Trichloroethene	1.084	0.10	1.000		108	67.8	149				
Vinyl chloride	1.197	0.040	1.000		120	46.1	152				
Surr: 4-Bromofluorobenzene	1.110	0	1.000		111	65	129				
Surr: Dibromofluoromethane	1.089	0	1.000		109	72.3	129				
Surr: Toluene-d8	1.083	0	1.000		108	74.2	118				

Sample ID: 1306C23-001ADUP	Client ID:	Units: mg/L	Prep Date: 06/15/2013	Run No: 246105							
SampleType: DUP	TestCode: VOLATILES, TCLP SW1311/8260B	BatchID: 177505	Analysis Date: 06/15/2013	Seq No: 5155875							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	BRL	0.10						0	0	30	
1,2-Dichloroethane	BRL	0.10						0	0	30	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
 Project Name: Lafarge East Point
 Workorder: 1306C25

ANALYTICAL QC SUMMARY REPORT

BatchID: 177505

Sample ID: 1306C23-001ADUP	Client ID:	Units: mg/L	Prep Date: 06/15/2013	Run No: 246105							
SampleType: DUP	TestCode: VOLATILES, TCLP SW1311/8260B	BatchID: 177505	Analysis Date: 06/15/2013	Seq No: 5155875							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2-Butanone	BRL	0.20						0	0	30	
Benzene	BRL	0.10						0	0	30	
Carbon tetrachloride	BRL	0.10						0	0	30	
Chlorobenzene	BRL	0.10						0	0	30	
Chloroform	BRL	0.10						0	0	30	
Tetrachloroethene	BRL	0.10						0	0	30	
Trichloroethene	BRL	0.10						0	0	30	
Vinyl chloride	BRL	0.040						0	0	30	
Surr: 4-Bromofluorobenzene	0.8788	0	1.000		87.9	65	129	0.8712	0	0	
Surr: Dibromofluoromethane	1.059	0	1.000		106	72.3	129	1.079	0	0	
Surr: Toluene-d8	0.9404	0	1.000		94.0	74.2	118	0.9448	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
 Project Name: Lafarge East Point
 Workorder: 1306C25

ANALYTICAL QC SUMMARY REPORT

BatchID: 177540

Sample ID: LCS-177540	Client ID:	Units: pH Units	Prep Date: 06/17/2013	Run No: 246182							
SampleType: LCS	TestCode: Laboratory Hydrogen Ion (pH) SW9045D	BatchID: 177540	Analysis Date: 06/17/2013	Seq No: 5157415							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

pH 7.050 0.01 7.000 101 90 110

Sample ID: 1306C23-001BDUP	Client ID:	Units: pH Units	Prep Date: 06/17/2013	Run No: 246182							
SampleType: DUP	TestCode: Laboratory Hydrogen Ion (pH) SW9045D	BatchID: 177540	Analysis Date: 06/17/2013	Seq No: 5157417							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

pH 7.790 0.01 7.830 0.512 10 H

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	

Client: Arcadis
Project Name: Lafarge East Point
Workorder: 1306C25

ANALYTICAL QC SUMMARY REPORT

BatchID: 177550

Sample ID: MB-177550	Client ID:	Units: mg/Kg	Prep Date: 06/17/2013	Run No: 246195							
SampleType: MBLK	TestCode: Sulfide, Reactive SW7.3.4.2	BatchID: 177550	Analysis Date: 06/17/2013	Seq No: 5157627							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Sulfide, Reactive

BRL

100

Sample ID: LCS-177550	Client ID:	Units: mg/Kg	Prep Date: 06/17/2013	Run No: 246195							
SampleType: LCS	TestCode: Sulfide, Reactive SW7.3.4.2	BatchID: 177550	Analysis Date: 06/17/2013	Seq No: 5157628							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Sulfide, Reactive

1880

100

2000

94.0

30

120

Sample ID: 1306C23-001BMS	Client ID:	Units: mg/Kg	Prep Date: 06/17/2013	Run No: 246195							
SampleType: MS	TestCode: Sulfide, Reactive SW7.3.4.2	BatchID: 177550	Analysis Date: 06/17/2013	Seq No: 5157631							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Sulfide, Reactive

400.0

100

800.0

50.0

27.8

117

Sample ID: 1306C23-001BMSD	Client ID:	Units: mg/Kg	Prep Date: 06/17/2013	Run No: 246195							
SampleType: MSD	TestCode: Sulfide, Reactive SW7.3.4.2	BatchID: 177550	Analysis Date: 06/17/2013	Seq No: 5157632							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Sulfide, Reactive

368.0

100

800.0

46.0

27.8

117

400.0

8.33

27

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	

Client: Arcadis
 Project Name: Lafarge East Point
 Workorder: 1306C25

ANALYTICAL QC SUMMARY REPORT

BatchID: 177555

Sample ID: MB-177555	Client ID:	Units: mg/Kg	Prep Date: 06/17/2013	Run No: 246198							
SampleType: MBLK	TestCode: Cyanide, Reactive SW7.3.3.2	BatchID: 177555	Analysis Date: 06/17/2013	Seq No: 5157688							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Cyanide, Reactive

BRL 1.00

Sample ID: LCS-177555	Client ID:	Units: mg/Kg	Prep Date: 06/17/2013	Run No: 246198							
SampleType: LCS	TestCode: Cyanide, Reactive SW7.3.3.2	BatchID: 177555	Analysis Date: 06/17/2013	Seq No: 5157689							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Cyanide, Reactive

8.515 1.00 12.50 68.1 50 150

Sample ID: 1306C23-001BMS	Client ID:	Units: mg/Kg	Prep Date: 06/17/2013	Run No: 246198							
SampleType: MS	TestCode: Cyanide, Reactive SW7.3.3.2	BatchID: 177555	Analysis Date: 06/17/2013	Seq No: 5157695							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Cyanide, Reactive

8.710 1.00 12.50 69.7 19.9 120

Sample ID: 1306C23-001BMSD	Client ID:	Units: mg/Kg	Prep Date: 06/17/2013	Run No: 246198							
SampleType: MSD	TestCode: Cyanide, Reactive SW7.3.3.2	BatchID: 177555	Analysis Date: 06/17/2013	Seq No: 5157696							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Cyanide, Reactive

8.233 0.952 11.90 69.2 19.9 120 8.710 5.63 30

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	

Client: Arcadis
 Project Name: Lafarge East Point
 Workorder: 1306C25

ANALYTICAL QC SUMMARY REPORT

BatchID: R246186

Sample ID: LCS-R246186	Client ID:	Units: °F	Prep Date:	Run No: 246186							
SampleType: LCS	TestCode: Ignitability SW1010A	BatchID: R246186	Analysis Date: 06/17/2013	Seq No: 5157455							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ignitability	80.00	0	80.00		100	93.8	106.2				
--------------	-------	---	-------	--	-----	------	-------	--	--	--	--

Sample ID: 1306C23-001BDUP	Client ID:	Units: °F	Prep Date:	Run No: 246186							
SampleType: DUP	TestCode: Ignitability SW1010A	BatchID: R246186	Analysis Date: 06/17/2013	Seq No: 5157461							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ignitability	180.0	0						180.0	0	20	>
--------------	-------	---	--	--	--	--	--	-------	---	----	---

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		



September 24, 2013

Peter Cornais
Arcadis
2081 Vista Parkway, Suite 200
West Palm Beach FL 33411

TEL: (850) 445-0829
FAX:

RE: Lafarge EP

Dear Peter Cornais:

Order No: 1309920

Analytical Environmental Services, Inc. received 1 samples on 9/11/2013 2:40:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/13-06/30/14.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/15.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Chantelle Kanhai
Project Manager

Client: Arcadis
Project: Lafarge EP
Lab ID: 1309920

Case Narrative

pH Analysis by Method 9045D:

Samples for pH analysis by Method 9045D were received and analyzed outside holding time requirement of "immediate or 15 minutes".

Client: Arcadis	Client Sample ID: ZONE 6-SP5
Project Name: Lafarge EP	Collection Date: 9/11/2013 11:10:00 AM
Lab ID: 1309920-001	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
VOLATILES, TCLP SW1311/8260B		(SW1311)						
1,1-Dichloroethene	BRL	0.10		mg/L	181130	20	09/16/2013 13:46	AK
1,2-Dichloroethane	BRL	0.10		mg/L	181130	20	09/16/2013 13:46	AK
2-Butanone	BRL	0.20		mg/L	181130	20	09/16/2013 13:46	AK
Benzene	BRL	0.10		mg/L	181130	20	09/16/2013 13:46	AK
Carbon tetrachloride	BRL	0.10		mg/L	181130	20	09/16/2013 13:46	AK
Chlorobenzene	BRL	0.10		mg/L	181130	20	09/16/2013 13:46	AK
Chloroform	BRL	0.10		mg/L	181130	20	09/16/2013 13:46	AK
Tetrachloroethene	BRL	0.10		mg/L	181130	20	09/16/2013 13:46	AK
Trichloroethene	BRL	0.10		mg/L	181130	20	09/16/2013 13:46	AK
Vinyl chloride	BRL	0.040		mg/L	181130	20	09/16/2013 13:46	AK
Surr: 4-Bromofluorobenzene	87.1	65-129		%REC	181130	20	09/16/2013 13:46	AK
Surr: Dibromofluoromethane	111	72.3-129		%REC	181130	20	09/16/2013 13:46	AK
Surr: Toluene-d8	102	74.2-118		%REC	181130	20	09/16/2013 13:46	AK
Sulfide, Reactive SW846-7.3		(SW7.3.4.2)						
Sulfide, Reactive	BRL	100		mg/Kg	181129	1	09/16/2013 12:35	EH
MERCURY, TCLP SW1311/7470A		(SW7470A)						
Mercury	BRL	0.00400		mg/L	181102	1	09/16/2013 14:35	CG
Laboratory Hydrogen Ion (pH) SW9045D		(SW9045D)						
pH	7.72	0.01	H	pH Units	181160	1	09/16/2013 18:10	EH
Ignitability SW1010A								
Ignitability	180	0	>	°F	R252072	1	09/16/2013 09:00	AB
ICP METALS, TCLP SW1311/6010C		(SW3010A)						
Arsenic	BRL	0.250		mg/L	181086	1	09/16/2013 12:05	MR
Barium	1.08	0.500		mg/L	181086	1	09/16/2013 12:05	MR
Cadmium	BRL	0.0250		mg/L	181086	1	09/16/2013 12:05	MR
Chromium	BRL	0.0500		mg/L	181086	1	09/16/2013 12:05	MR
Lead	3.10	0.0500		mg/L	181086	1	09/16/2013 12:05	MR
Selenium	BRL	0.100		mg/L	181086	1	09/16/2013 12:05	MR
Silver	BRL	0.0250		mg/L	181086	1	09/16/2013 12:05	MR
Cyanide, Reactive SW846-7.3		(SW7.3.3.2)						
Cyanide, Reactive	BRL	1.00		mg/Kg	181154	1	09/16/2013 16:40	EH
POLYAROMATIC HYDROCARBONS SW8270D		(SW3510C)						
Naphthalene	BRL	100		ug/L	181072	1	09/16/2013 11:56	EI
Acenaphthylene	BRL	100		ug/L	181072	1	09/16/2013 11:56	EI

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: ZONE 6-SP5
Project Name: Lafarge EP	Collection Date: 9/11/2013 11:10:00 AM
Lab ID: 1309920-001	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
POLYAROMATIC HYDROCARBONS	SW8270D				(SW3510C)			
1-Methylnaphthalene	BRL	100		ug/L	181072	1	09/16/2013 11:56	EI
2-Methylnaphthalene	BRL	100		ug/L	181072	1	09/16/2013 11:56	EI
Acenaphthene	BRL	100		ug/L	181072	1	09/16/2013 11:56	EI
Fluorene	BRL	100		ug/L	181072	1	09/16/2013 11:56	EI
Phenanthrene	BRL	100		ug/L	181072	1	09/16/2013 11:56	EI
Anthracene	BRL	100		ug/L	181072	1	09/16/2013 11:56	EI
Fluoranthene	BRL	100		ug/L	181072	1	09/16/2013 11:56	EI
Pyrene	BRL	100		ug/L	181072	1	09/16/2013 11:56	EI
Benz(a)anthracene	BRL	100		ug/L	181072	1	09/16/2013 11:56	EI
Chrysene	BRL	100		ug/L	181072	1	09/16/2013 11:56	EI
Benzo(b)fluoranthene	BRL	100		ug/L	181072	1	09/16/2013 11:56	EI
Benzo(k)fluoranthene	BRL	100		ug/L	181072	1	09/16/2013 11:56	EI
Benzo(a)pyrene	BRL	100		ug/L	181072	1	09/16/2013 11:56	EI
Dibenz(a,h)anthracene	BRL	100		ug/L	181072	1	09/16/2013 11:56	EI
Benzo(g,h,i)perylene	BRL	100		ug/L	181072	1	09/16/2013 11:56	EI
Indeno(1,2,3-cd)pyrene	BRL	100		ug/L	181072	1	09/16/2013 11:56	EI
Surr: Nitrobenzene-d5	94.9	35-118		%REC	181072	1	09/16/2013 11:56	EI
Surr: 2-Fluorobiphenyl	88.5	40.6-116		%REC	181072	1	09/16/2013 11:56	EI
Surr: 4-Terphenyl-d14	96.2	51.8-124		%REC	181072	1	09/16/2013 11:56	EI

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Arcadis Work Order Number 1309920

Checklist completed by [Signature] Date 9/11/13
Signature Date

Carrier name: FedEx UPS Courier Client US Mail Other

Shipping container/cooler in good condition? Yes No Not Present
Custody seals intact on shipping container/cooler? Yes No Not Present
Custody seals intact on sample bottles? Yes No Not Present
Container/Temp Blank temperature in compliance? (4°C±2)* Yes No

Cooler #1 3.1' Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present? Yes No
Chain of custody signed when relinquished and received? Yes No
Chain of custody agrees with sample labels? Yes No
Samples in proper container/bottle? Yes No
Sample containers intact? Yes No
Sufficient sample volume for indicated test? Yes No
All samples received within holding time? Yes No
Was TAT marked on the COC? Yes No
Proceed with Standard TAT as per project history? Yes No Not Applicable
Water - VOA vials have zero headspace? No VOA vials submitted Yes No
Water - pH acceptable upon receipt? Yes No Not Applicable

Adjusted? _____ Checked by _____
Sample Condition: Good Other(Explain) _____
(For diffusive samples or AIHA lead) Is a known blank included? Yes No

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

Client: Arcadis
Project: Lafarge EP
Lab Order: 1309920

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1309920-001A	ZONE 6-SP5	9/11/2013 11:10:00AM	Soil	VOLATILES, TCLP Leached	09/13/2013	09/16/2013	09/16/2013
1309920-001B	ZONE 6-SP5	9/11/2013 11:10:00AM	Soil	MERCURY, TCLP Leached	09/13/2013	09/16/2013	09/16/2013
1309920-001B	ZONE 6-SP5	9/11/2013 11:10:00AM	Soil	ICP METALS, TCLP Leached	09/13/2013	09/16/2013	09/16/2013
1309920-001B	ZONE 6-SP5	9/11/2013 11:10:00AM	Soil	POLYNUCLEAR AROMATIC HYDROCARBONS		09/16/2013	09/16/2013
1309920-001C	ZONE 6-SP5	9/11/2013 11:10:00AM	Soil	Cyanide, Reactive		09/16/2013	09/16/2013
1309920-001C	ZONE 6-SP5	9/11/2013 11:10:00AM	Soil	Sulfide, Reactive		09/16/2013	09/16/2013
1309920-001D	ZONE 6-SP5	9/11/2013 11:10:00AM	Soil	IGNITABILITY			09/16/2013
1309920-001D	ZONE 6-SP5	9/11/2013 11:10:00AM	Soil	Laboratory Hydrogen Ion (pH)		09/16/2013	09/16/2013

Client: Arcadis
 Project Name: Lafarge EP
 Workorder: 1309920

ANALYTICAL QC SUMMARY REPORT

BatchID: 181072

Sample ID: MB-181072	Client ID:	Units: ug/L	Prep Date: 09/16/2013	Run No: 252050							
SampleType: MBLK	TestCode: POLYAROMATIC HYDROCARBONS SW8270D	BatchID: 181072	Analysis Date: 09/16/2013	Seq No: 5288843							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1-Methylnaphthalene	BRL	100									
2-Methylnaphthalene	BRL	100									
Acenaphthene	BRL	100									
Acenaphthylene	BRL	100									
Anthracene	BRL	100									
Benz(a)anthracene	BRL	100									
Benzo(a)pyrene	BRL	100									
Benzo(b)fluoranthene	BRL	100									
Benzo(g,h,i)perylene	BRL	100									
Benzo(k)fluoranthene	BRL	100									
Chrysene	BRL	100									
Dibenz(a,h)anthracene	BRL	100									
Fluoranthene	BRL	100									
Fluorene	BRL	100									
Indeno(1,2,3-cd)pyrene	BRL	100									
Naphthalene	BRL	100									
Phenanthrene	BRL	100									
Pyrene	BRL	100									
Surr: 2-Fluorobiphenyl	444.7	0	500.0		88.9	40.6	116				
Surr: 4-Terphenyl-d14	483.7	0	500.0		96.7	51.8	124				
Surr: Nitrobenzene-d5	492.9	0	500.0		98.6	35	118				

Sample ID: LCS-181072	Client ID:	Units: ug/L	Prep Date: 09/16/2013	Run No: 252050							
SampleType: LCS	TestCode: POLYAROMATIC HYDROCARBONS SW8270D	BatchID: 181072	Analysis Date: 09/16/2013	Seq No: 5288846							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1-Methylnaphthalene	469.9	100	500.0		94.0	52.5	120				
---------------------	-------	-----	-------	--	------	------	-----	--	--	--	--

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
 Project Name: Lafarge EP
 Workorder: 1309920

ANALYTICAL QC SUMMARY REPORT

BatchID: 181072

Sample ID: LCS-181072	Client ID:	Units: ug/L	Prep Date: 09/16/2013	Run No: 252050							
SampleType: LCS	TestCode: POLYAROMATIC HYDROCARBONS SW8270D	BatchID: 181072	Analysis Date: 09/16/2013	Seq No: 5288846							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2-Methylnaphthalene	439.3	100	500.0		87.9	50.9	120				
Acenaphthene	480.3	100	500.0		96.1	49	120				
Acenaphthylene	468.1	100	500.0		93.6	58.5	123				
Anthracene	447.0	100	500.0		89.4	55.6	120				
Benz(a)anthracene	470.6	100	500.0		94.1	52.6	120				
Benzo(a)pyrene	424.6	100	500.0		84.9	53	120				
Benzo(b)fluoranthene	483.2	100	500.0		96.6	49.5	120				
Benzo(g,h,i)perylene	493.5	100	500.0		98.7	50	120				
Benzo(k)fluoranthene	454.7	100	500.0		90.9	50	120				
Chrysene	447.5	100	500.0		89.5	51.3	120				
Dibenz(a,h)anthracene	483.0	100	500.0		96.6	50.1	120				
Fluoranthene	446.8	100	500.0		89.4	59.5	124				
Fluorene	451.8	100	500.0		90.4	51.1	120				
Indeno(1,2,3-cd)pyrene	472.0	100	500.0		94.4	51.1	120				
Naphthalene	448.3	100	500.0		89.7	50.8	120				
Phenanthrene	455.7	100	500.0		91.1	54.4	120				
Pyrene	477.7	100	500.0		95.5	52.7	120				
Surr: 2-Fluorobiphenyl	462.2	0	500.0		92.4	40.6	116				
Surr: 4-Terphenyl-d14	463.8	0	500.0		92.8	51.8	124				
Surr: Nitrobenzene-d5	490.5	0	500.0		98.1	35	118				

Sample ID: 1309920-001BMS	Client ID: ZONE 6-SP5	Units: ug/L	Prep Date: 09/16/2013	Run No: 252050							
SampleType: MS	TestCode: POLYAROMATIC HYDROCARBONS SW8270D	BatchID: 181072	Analysis Date: 09/16/2013	Seq No: 5288852							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1-Methylnaphthalene	479.3	100	500.0		95.9	41.7	120				
2-Methylnaphthalene	443.2	100	500.0		88.6	40.2	120				
Acenaphthene	480.0	100	500.0		96.0	40.6	120				

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Arcadis
 Project Name: Lafarge EP
 Workorder: 1309920

ANALYTICAL QC SUMMARY REPORT

BatchID: 181072

Sample ID: 1309920-001BMS	Client ID: ZONE 6-SP5	Units: ug/L	Prep Date: 09/16/2013	Run No: 252050
SampleType: MS	TestCode: POLYAROMATIC HYDROCARBONS SW8270D	BatchID: 181072	Analysis Date: 09/16/2013	Seq No: 5288852

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Acenaphthylene	477.8	100	500.0		95.6	43.3	123				
Anthracene	463.0	100	500.0		92.6	49.3	120				
Benz(a)anthracene	484.4	100	500.0		96.9	50.4	120				
Benzo(a)pyrene	446.7	100	500.0		89.3	49.4	120				
Benzo(b)fluoranthene	507.9	100	500.0		102	47.7	120				
Benzo(g,h,i)perylene	524.7	100	500.0		105	45.4	120				
Benzo(k)fluoranthene	479.0	100	500.0		95.8	48.4	120				
Chrysene	462.0	100	500.0		92.4	50.9	120				
Dibenz(a,h)anthracene	509.9	100	500.0		102	49.3	120				
Fluoranthene	470.4	100	500.0		94.1	51.8	124				
Fluorene	467.6	100	500.0		93.5	44.4	120				
Indeno(1,2,3-cd)pyrene	495.8	100	500.0		99.2	50.9	120				
Naphthalene	456.6	100	500.0		91.3	35.7	120				
Phenanthrene	468.2	100	500.0		93.6	48.8	120				
Pyrene	490.4	100	500.0		98.1	50.9	120				
Surr: 2-Fluorobiphenyl	466.0	0	500.0		93.2	40.6	116				
Surr: 4-Terphenyl-d14	474.8	0	500.0		95.0	51.8	124				
Surr: Nitrobenzene-d5	493.7	0	500.0		98.7	35	118				

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
Project Name: Lafarge EP
Workorder: 1309920

ANALYTICAL QC SUMMARY REPORT

BatchID: 181086

Sample ID: MB-181086	Client ID:	Units: mg/L	Prep Date: 09/16/2013	Run No: 252071							
SampleType: MBLK	TestCode: ICP METALS, TCLP SW1311/6010C	BatchID: 181086	Analysis Date: 09/16/2013	Seq No: 5289347							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	BRL	0.250									
Barium	BRL	0.500									
Cadmium	BRL	0.0250									
Chromium	BRL	0.0500									
Lead	BRL	0.0500									
Selenium	BRL	0.100									
Silver	BRL	0.0250									

Sample ID: MB-181086-2	Client ID:	Units: mg/L	Prep Date: 09/16/2013	Run No: 252071							
SampleType: MBLK	TestCode: ICP METALS, TCLP SW1311/6010C	BatchID: 181086	Analysis Date: 09/16/2013	Seq No: 5289351							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	BRL	0.250									
Barium	BRL	0.500									
Cadmium	BRL	0.0250									
Chromium	BRL	0.0500									
Lead	BRL	0.0500									
Selenium	BRL	0.100									
Silver	BRL	0.0250									

Sample ID: LCS-181086	Client ID:	Units: mg/L	Prep Date: 09/16/2013	Run No: 252071							
SampleType: LCS	TestCode: ICP METALS, TCLP SW1311/6010C	BatchID: 181086	Analysis Date: 09/16/2013	Seq No: 5289343							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	5.118	0.250	5.000		102	85	115				
Barium	4.860	0.500	5.000	0.03117	96.6	80	120				
Cadmium	4.955	0.0250	5.000		99.1	85	115				
Chromium	4.897	0.0500	5.000		97.9	85	115				

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Arcadis
 Project Name: Lafarge EP
 Workorder: 1309920

ANALYTICAL QC SUMMARY REPORT

BatchID: 181086

Sample ID: LCS-181086	Client ID:	Units: mg/L	Prep Date: 09/16/2013	Run No: 252071							
SampleType: LCS	TestCode: ICP METALS, TCLP SW1311/6010C	BatchID: 181086	Analysis Date: 09/16/2013	Seq No: 5289343							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Lead	4.794	0.0500	5.000		95.9	85	115				
Selenium	5.192	0.100	5.000		104	85	115				
Silver	0.4947	0.0250	0.5000		98.9	85	115				

Sample ID: 1309920-001BMS	Client ID: ZONE 6-SP5	Units: mg/L	Prep Date: 09/16/2013	Run No: 252071							
SampleType: MS	TestCode: ICP METALS, TCLP SW1311/6010C	BatchID: 181086	Analysis Date: 09/16/2013	Seq No: 5289359							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	5.176	0.250	5.000		104	50	150				
Barium	5.893	0.500	5.000	1.075	96.4	50	150				
Cadmium	5.039	0.0250	5.000	0.01339	101	50	150				
Chromium	4.977	0.0500	5.000	0.03077	98.9	50	150				
Lead	7.695	0.0500	5.000	3.096	92.0	50	150				
Selenium	5.221	0.100	5.000		104	50	150				
Silver	0.5003	0.0250	0.5000		100	50	150				

Sample ID: 1309920-001BMSD	Client ID: ZONE 6-SP5	Units: mg/L	Prep Date: 09/16/2013	Run No: 252071							
SampleType: MSD	TestCode: ICP METALS, TCLP SW1311/6010C	BatchID: 181086	Analysis Date: 09/16/2013	Seq No: 5289363							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	5.171	0.250	5.000		103	50	150	5.176	0.087	30	
Barium	5.911	0.500	5.000	1.075	96.7	50	150	5.893	0.309	30	
Cadmium	5.034	0.0250	5.000	0.01339	100	50	150	5.039	0.111	30	
Chromium	4.977	0.0500	5.000	0.03077	98.9	50	150	4.977	0.013	30	
Lead	7.746	0.0500	5.000	3.096	93.0	50	150	7.695	0.660	30	
Selenium	5.244	0.100	5.000		105	50	150	5.221	0.445	30	
Silver	0.5014	0.0250	0.5000		100	50	150	0.5003	0.219	30	

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Arcadis
Project Name: Lafarge EP
Workorder: 1309920

ANALYTICAL QC SUMMARY REPORT

BatchID: 181102

Sample ID: MB-181102	Client ID:	Units: mg/L	Prep Date: 09/16/2013	Run No: 252030							
SampleType: MBLK	TestCode: MERCURY, TCLP SW1311/7470A	BatchID: 181102	Analysis Date: 09/16/2013	Seq No: 5288757							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Mercury BRL 0.00400

Sample ID: LCS-181102	Client ID:	Units: mg/L	Prep Date: 09/16/2013	Run No: 252030							
SampleType: LCS	TestCode: MERCURY, TCLP SW1311/7470A	BatchID: 181102	Analysis Date: 09/16/2013	Seq No: 5288759							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Mercury 0.04112 0.00400 0.0400 103 85 115

Sample ID: 1309880-020BMS	Client ID:	Units: mg/L	Prep Date: 09/16/2013	Run No: 252030							
SampleType: MS	TestCode: MERCURY, TCLP SW1311/7470A	BatchID: 181102	Analysis Date: 09/16/2013	Seq No: 5288763							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Mercury 0.03985 0.00400 0.0400 99.6 80 120

Sample ID: 1309880-020BMSD	Client ID:	Units: mg/L	Prep Date: 09/16/2013	Run No: 252030							
SampleType: MSD	TestCode: MERCURY, TCLP SW1311/7470A	BatchID: 181102	Analysis Date: 09/16/2013	Seq No: 5288766							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Mercury 0.04078 0.00400 0.0400 102 80 120 0.03985 2.31 20

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Arcadis
Project Name: Lafarge EP
Workorder: 1309920

ANALYTICAL QC SUMMARY REPORT

BatchID: 181129

Sample ID: MB-181129	Client ID:	Units: mg/Kg	Prep Date: 09/16/2013	Run No: 252035							
SampleType: MBLK	TestCode: Sulfide, Reactive SW846-7.3	BatchID: 181129	Analysis Date: 09/16/2013	Seq No: 5288487							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Sulfide, Reactive

BRL

100

Sample ID: LCS-181129	Client ID:	Units: mg/Kg	Prep Date: 09/16/2013	Run No: 252035							
SampleType: LCS	TestCode: Sulfide, Reactive SW846-7.3	BatchID: 181129	Analysis Date: 09/16/2013	Seq No: 5288488							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Sulfide, Reactive

1848

100

1828

101

55.3

120

Sample ID: 1309920-001CMS	Client ID: ZONE 6-SP5	Units: mg/Kg	Prep Date: 09/16/2013	Run No: 252035							
SampleType: MS	TestCode: Sulfide, Reactive SW846-7.3	BatchID: 181129	Analysis Date: 09/16/2013	Seq No: 5288490							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Sulfide, Reactive

579.2

100

731.2

79.2

31.5

116

Sample ID: 1309920-001CMSD	Client ID: ZONE 6-SP5	Units: mg/Kg	Prep Date: 09/16/2013	Run No: 252035							
SampleType: MSD	TestCode: Sulfide, Reactive SW846-7.3	BatchID: 181129	Analysis Date: 09/16/2013	Seq No: 5288491							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Sulfide, Reactive

539.2

100

731.2

73.7

31.5

116

579.2

7.15

19.5

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	

Client: Arcadis
Project Name: Lafarge EP
Workorder: 1309920

ANALYTICAL QC SUMMARY REPORT

BatchID: 181130

Sample ID: MB-181130	Client ID:	Units: mg/L	Prep Date: 09/16/2013	Run No: 252036							
SampleType: MBLK	TestCode: VOLATILES, TCLP SW1311/8260B	BatchID: 181130	Analysis Date: 09/16/2013	Seq No: 5288498							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	BRL	0.10									
1,2-Dichloroethane	BRL	0.10									
2-Butanone	BRL	0.20									
Benzene	BRL	0.10									
Carbon tetrachloride	BRL	0.10									
Chlorobenzene	BRL	0.10									
Chloroform	BRL	0.10									
Tetrachloroethene	BRL	0.10									
Trichloroethene	BRL	0.10									
Vinyl chloride	BRL	0.040									
Surr: 4-Bromofluorobenzene	0.8396	0	1.000		84.0	65	129				
Surr: Dibromofluoromethane	1.124	0	1.000		112	72.3	129				
Surr: Toluene-d8	1.055	0	1.000		105	74.2	118				

Sample ID: LCS-181130	Client ID:	Units: mg/L	Prep Date: 09/16/2013	Run No: 252036							
SampleType: LCS	TestCode: VOLATILES, TCLP SW1311/8260B	BatchID: 181130	Analysis Date: 09/16/2013	Seq No: 5288499							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	1.017	0.10	1.000		102	53	139				
1,2-Dichloroethane	1.059	0.10	1.000		106	62	143				
2-Butanone	1.368	0.20	2.000		68.4	42	146				
Benzene	0.9800	0.10	1.000		98.0	70.6	128				
Carbon tetrachloride	1.155	0.10	1.000		115	56	146				
Chlorobenzene	1.092	0.10	1.000		109	73	121				
Chloroform	1.058	0.10	1.000		106	64.6	129				
Tetrachloroethene	0.9894	0.10	1.000		98.9	70.5	131				
Trichloroethene	1.023	0.10	1.000		102	69.3	129				
Vinyl chloride	1.074	0.040	1.000		107	46.1	139				

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
 Project Name: Lafarge EP
 Workorder: 1309920

ANALYTICAL QC SUMMARY REPORT

BatchID: 181130

Sample ID: LCS-181130	Client ID:	Units: mg/L	Prep Date: 09/16/2013	Run No: 252036							
SampleType: LCS	TestCode: VOLATILES, TCLP SW1311/8260B	BatchID: 181130	Analysis Date: 09/16/2013	Seq No: 5288499							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Surr: 4-Bromofluorobenzene	1.045	0	1.000		104	65	129				
Surr: Dibromofluoromethane	1.244	0	1.000		124	72.3	129				
Surr: Toluene-d8	1.111	0	1.000		111	74.2	118				

Sample ID: 1309920-001AMS	Client ID: ZONE 6-SP5	Units: mg/L	Prep Date: 09/16/2013	Run No: 252036							
SampleType: MS	TestCode: VOLATILES, TCLP SW1311/8260B	BatchID: 181130	Analysis Date: 09/16/2013	Seq No: 5288760							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	1.060	0.10	1.000		106	52.3	155				
1,2-Dichloroethane	1.176	0.10	1.000		118	58.3	144				
2-Butanone	1.755	0.20	2.000		87.7	39.1	160				
Benzene	1.087	0.10	1.000		109	70	139				
Carbon tetrachloride	1.202	0.10	1.000		120	53.3	147				
Chlorobenzene	1.151	0.10	1.000		115	72.2	132				
Chloroform	1.053	0.10	1.000		105	63.7	135				
Tetrachloroethene	1.097	0.10	1.000		110	70	148				
Trichloroethene	1.109	0.10	1.000		111	67.8	149				
Vinyl chloride	1.105	0.040	1.000		110	46.1	152				
Surr: 4-Bromofluorobenzene	1.063	0	1.000		106	65	129				
Surr: Dibromofluoromethane	1.224	0	1.000		122	72.3	129				
Surr: Toluene-d8	1.090	0	1.000		109	74.2	118				

Sample ID: 1309920-001ADUP	Client ID: ZONE 6-SP5	Units: mg/L	Prep Date: 09/16/2013	Run No: 252036							
SampleType: DUP	TestCode: VOLATILES, TCLP SW1311/8260B	BatchID: 181130	Analysis Date: 09/16/2013	Seq No: 5288665							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	BRL	0.10						0	0	30	
1,2-Dichloroethane	BRL	0.10						0	0	30	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
 Project Name: Lafarge EP
 Workorder: 1309920

ANALYTICAL QC SUMMARY REPORT

BatchID: 181130

Sample ID: 1309920-001ADUP	Client ID: ZONE 6-SP5	Units: mg/L	Prep Date: 09/16/2013	Run No: 252036							
SampleType: DUP	TestCode: VOLATILES, TCLP SW1311/8260B	BatchID: 181130	Analysis Date: 09/16/2013	Seq No: 5288665							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2-Butanone	BRL	0.20						0	0	30	
Benzene	BRL	0.10						0	0	30	
Carbon tetrachloride	BRL	0.10						0	0	30	
Chlorobenzene	BRL	0.10						0	0	30	
Chloroform	BRL	0.10						0	0	30	
Tetrachloroethene	BRL	0.10						0	0	30	
Trichloroethene	BRL	0.10						0	0	30	
Vinyl chloride	BRL	0.040						0	0	30	
Surr: 4-Bromofluorobenzene	0.8498	0	1.000		85.0	65	129	0.8710	0	0	
Surr: Dibromofluoromethane	1.122	0	1.000		112	72.3	129	1.110	0	0	
Surr: Toluene-d8	1.031	0	1.000		103	74.2	118	1.016	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
Project Name: Lafarge EP
Workorder: 1309920

ANALYTICAL QC SUMMARY REPORT

BatchID: 181154

Sample ID: MB-181154	Client ID:	Units: mg/Kg	Prep Date: 09/16/2013	Run No: 252070							
SampleType: MBLK	TestCode: Cyanide, Reactive SW846-7.3	BatchID: 181154	Analysis Date: 09/16/2013	Seq No: 5289289							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Cyanide, Reactive

BRL 1.00

Sample ID: LCS-181154	Client ID:	Units: mg/Kg	Prep Date: 09/16/2013	Run No: 252070							
SampleType: LCS	TestCode: Cyanide, Reactive SW846-7.3	BatchID: 181154	Analysis Date: 09/16/2013	Seq No: 5289290							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Cyanide, Reactive

7.800 1.00 12.50 62.4 50 150

Sample ID: 1309920-001CMS	Client ID: ZONE 6-SP5	Units: mg/Kg	Prep Date: 09/16/2013	Run No: 252070							
SampleType: MS	TestCode: Cyanide, Reactive SW846-7.3	BatchID: 181154	Analysis Date: 09/16/2013	Seq No: 5289296							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Cyanide, Reactive

6.805 1.00 12.50 54.4 19.9 120

Sample ID: 1309920-001CMSD	Client ID: ZONE 6-SP5	Units: mg/Kg	Prep Date: 09/16/2013	Run No: 252070							
SampleType: MSD	TestCode: Cyanide, Reactive SW846-7.3	BatchID: 181154	Analysis Date: 09/16/2013	Seq No: 5289299							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Cyanide, Reactive

6.315 1.00 12.50 50.5 19.9 120 6.805 7.47 30

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	

Client: Arcadis
 Project Name: Lafarge EP
 Workorder: 1309920

ANALYTICAL QC SUMMARY REPORT

BatchID: 181160

Sample ID: LCS-181160	Client ID:	Units: pH Units	Prep Date: 09/16/2013	Run No: 252082							
SampleType: LCS	TestCode: Laboratory Hydrogen Ion (pH) SW9045D	BatchID: 181160	Analysis Date: 09/16/2013	Seq No: 5289731							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

pH 7.050 0.01 7.000 101 90 110

Sample ID: 1309689-001BDUP	Client ID:	Units: pH Units	Prep Date: 09/16/2013	Run No: 252082							
SampleType: DUP	TestCode: Laboratory Hydrogen Ion (pH) SW9045D	BatchID: 181160	Analysis Date: 09/16/2013	Seq No: 5289735							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

pH 7.240 0.01 7.290 0.688 10 H

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	

Client: Arcadis
 Project Name: Lafarge EP
 Workorder: 1309920

ANALYTICAL QC SUMMARY REPORT

BatchID: R252072

Sample ID: LCS-R252072	Client ID:	Units: °F	Prep Date:	Run No: 252072							
SampleType: LCS	TestCode: Ignitability SW1010A	BatchID: R252072	Analysis Date: 09/16/2013	Seq No: 5289450							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ignitability 80.00 0 80.00 100 93.8 106.2

Sample ID: 1309689-001BDUP	Client ID:	Units: °F	Prep Date:	Run No: 252072							
SampleType: DUP	TestCode: Ignitability SW1010A	BatchID: R252072	Analysis Date: 09/16/2013	Seq No: 5289456							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ignitability 180.0 0 180.0 0 20 >

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	



May 07, 2013

Peter Cornais
Arcadis
1000 Cobb Place Blvd., Bldg. 500-A
Kennesaw GA 30144

TEL: (404) 952-1621
FAX: (770) 428-4004

RE: Lafarge East Point

Dear Peter Cornais:

Order No: 1304M13

Analytical Environmental Services, Inc. received 1 samples on 4/24/2013 2:45:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/12-06/30/13.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/13.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Chantelle Kanhai
Project Manager



ANALYTICAL ENVIRONMENTAL SERVICES, INC

3785 Presidential Parkway, Atlanta GA 30340-3704

TEL: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1304m13 1304L74

Date: Page of

COMPANY: Arcadis		ADDRESS: 1000 Cobb Place Blvd Bldg 500A Kennesaw, GA			ANALYSIS REQUESTED						Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.		No # of Containers		
PHONE: 404-952-1602		FAX: Cecilia.Reagan@arcadis-us.com			KCBG TCLP Metals TCLP PAHs 8270 TCLP VOCs 8260B	PRESERVATION (See codes)						REMARKS			
SAMPLED BY: Mark Myers/Cecilia Reagan		SIGNATURE: Cecilia Reagan				I	I	I							
#	SAMPLE ID	SAMPLED		Grab	Composite	Matrix (See codes)	PRESERVATION (See codes)						REMARKS	No # of Containers	
		DATE	TIME				I	I	I						
1	Zonel - SP-12	4/24/13	1130	X		SO	I	I	I					RUSH TAT	4
2															
3															
4															
5															
6															
7															
8															
9															
10															
11															
12															
13															
14															
RELINQUISHED BY		DATE/TIME	RECEIVED BY		DATE/TIME	PROJECT INFORMATION						RECEIPT			
1: Cecilia Reagan		4/24/13 1200	1: N.C		4-24-13 12:00 PM	PROJECT NAME: Lafarge East Point						Total # of Containers 4			
2: N/C		4-24-13 2:45p	2: PR		4/24/13 14:45	PROJECT #: H-212-516						Turnaround Time Request			
3:			3:			SITE ADDRESS: 2675 N Martin Street						Standard 5 Business Days			
SPECIAL INSTRUCTIONS/COMMENTS: RUSH Need results on 4/25/13			SHIPMENT METHOD			SEND REPORT TO: Peter.Cornais@arcadis-us.com						2 Business Day Rush			
			OUT / / VIA:			INVOICE TO:						Next Business Day Rush			
			IN / / VIA:			(IF DIFFERENT FROM ABOVE)						Same Day Rush (auth req.)			
			CLIENT FedEx UPS MAIL COURIER			QUOTE #:						Other			
			GREYHOUND OTHER			PO#:						STATE PROGRAM (if any):			
												E-mail? Y/N; Fax? Y/N			
												DATA PACKAGE: I II III IV			

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES. SAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMPLETION UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

Client: Arcadis
Project: Lafarge East Point
Lab ID: 1304M13

Case Narrative

Per Peter Cornais on 4/24/2013 via email, the sample was analyzed for RCI at standard turnaround time.

pH Analysis by Method 9045D:

Samples for pH analysis by Method 9045D were received and analyzed outside holding time requirement of "immediate or 15 minutes".

Analytical Environmental Services, Inc

Date: 7-May-13

Client: Arcadis	Client Sample ID: ZONE 1-SP-12
Project Name: Lafarge East Point	Collection Date: 4/24/2013 11:30:00 AM
Lab ID: 1304M13-001	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Sulfide, Reactive SW7.3.4.2								
Sulfide, Reactive	BRL	100		mg/Kg	175435	1	04/29/2013 17:40	AS
Laboratory Hydrogen Ion (pH) SW9045D								
pH	8.45	0.01	H	pH Units	175413	1	04/29/2013 09:00	DM
Ignitability SW1010A								
Ignitability	180	0	>	°F	R243169	1	05/01/2013 12:00	AS
Cyanide, Reactive SW7.3.3.2								
Cyanide, Reactive	BRL	1.00		mg/Kg	175462	1	04/30/2013 12:15	CG

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

1304M13 ^{EE}

~~1304L77~~

Client Arcadis

Work Order Number _____

Checklist completed by PR 4/24/13
Signature Date

Carrier name: FedEx ___ UPS ___ Courier Client ___ US Mail ___ Other _____

Shipping container/cooler in good condition? Yes No ___ Not Present ___

Custody seals intact on shipping container/cooler? Yes ___ No ___ Not Present

Custody seals intact on sample bottles? Yes ___ No ___ Not Present

Container/Temp Blank temperature in compliance? (4°C±2)* Yes No ___

Cooler #1 3-1 Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present? Yes No ___

Chain of custody signed when relinquished and received? Yes No ___

Chain of custody agrees with sample labels? Yes No ___

Samples in proper container/bottle? Yes No ___

Sample containers intact? Yes No ___

Sufficient sample volume for indicated test? Yes No ___

All samples received within holding time? Yes No ^{CK 4/25/13}

Was TAT marked on the COC? Yes No ___

Proceed with Standard TAT as per project history? Yes ___ No ___ Not Applicable

Water - VOA vials have zero headspace? No VOA vials submitted Yes ___ No ___

Water - pH acceptable upon receipt? Yes ___ No ___ Not Applicable

Adjusted? _____ Checked by _____

Sample Condition: Good Other(Explain) _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes ___ No

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

Client: Arcadis
 Project: Lafarge East Point
 Lab Order: 1304M13

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1304M13-001A	ZONE 1-SP-12	4/24/2013 11:30:00AM	Soil	IGNITABILITY			05/01/2013
1304M13-001A	ZONE 1-SP-12	4/24/2013 11:30:00AM	Soil	Cyanide, Reactive		04/30/2013	04/30/2013
1304M13-001A	ZONE 1-SP-12	4/24/2013 11:30:00AM	Soil	Sulfide, Reactive		04/29/2013	04/29/2013
1304M13-001A	ZONE 1-SP-12	4/24/2013 11:30:00AM	Soil	Laboratory Hydrogen Ion (pH)		04/29/2013	04/29/2013

Client: Arcadis
 Project Name: Lafarge East Point
 Workorder: 1304M13

ANALYTICAL QC SUMMARY REPORT

BatchID: 175413

Sample ID: LCS-175413	Client ID:	Units: pH Units	Prep Date: 04/29/2013	Run No: 242950							
SampleType: LCS	TestCode: Laboratory Hydrogen Ion (pH) SW9045D	BatchID: 175413	Analysis Date: 04/29/2013	Seq No: 5087272							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

pH	7.040	0.01	7.000	0	101	90	110	0	0	0	
----	-------	------	-------	---	-----	----	-----	---	---	---	--

Sample ID: 1304M13-001ADUP	Client ID: ZONE 1-SP-12	Units: pH Units	Prep Date: 04/29/2013	Run No: 242950							
SampleType: DUP	TestCode: Laboratory Hydrogen Ion (pH) SW9045D	BatchID: 175413	Analysis Date: 04/29/2013	Seq No: 5087274							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

pH	8.430	0.01	0	0	0	0	0	8.450	0.237	10	H
----	-------	------	---	---	---	---	---	-------	-------	----	---

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
Project Name: Lafarge East Point
Workorder: 1304M13

ANALYTICAL QC SUMMARY REPORT

BatchID: 175435

Sample ID: MB-175435	Client ID:	Units: mg/Kg	Prep Date: 04/29/2013	Run No: 242983							
SampleType: MBLK	TestCode: Sulfide, Reactive SW7.3.4.2	BatchID: 175435	Analysis Date: 04/29/2013	Seq No: 5088013							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Sulfide, Reactive BRL 100 0 0 0 0 0 0 0 0 0

Sample ID: LCS-175435	Client ID:	Units: mg/Kg	Prep Date: 04/29/2013	Run No: 242983							
SampleType: LCS	TestCode: Sulfide, Reactive SW7.3.4.2	BatchID: 175435	Analysis Date: 04/29/2013	Seq No: 5088014							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Sulfide, Reactive 980.0 100 1100 0 89.1 30 120 0 0 0

Sample ID: 1304M13-001AMS	Client ID: ZONE 1-SP-12	Units: mg/Kg	Prep Date: 04/29/2013	Run No: 242983							
SampleType: MS	TestCode: Sulfide, Reactive SW7.3.4.2	BatchID: 175435	Analysis Date: 04/29/2013	Seq No: 5088016							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Sulfide, Reactive 288.0 100 440.0 0 65.5 27.8 117 0 0 0

Sample ID: 1304M13-001AMSD	Client ID: ZONE 1-SP-12	Units: mg/Kg	Prep Date: 04/29/2013	Run No: 242983							
SampleType: MSD	TestCode: Sulfide, Reactive SW7.3.4.2	BatchID: 175435	Analysis Date: 04/29/2013	Seq No: 5088017							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Sulfide, Reactive 320.0 100 440.0 0 72.7 27.8 117 288.0 10.5 27

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	

Client: Arcadis
 Project Name: Lafarge East Point
 Workorder: 1304M13

ANALYTICAL QC SUMMARY REPORT

BatchID: R243169

Sample ID: LCS-R243169	Client ID:	Units: °F	Prep Date:	Run No: 243169							
SampleType: LCS	TestCode: Ignitability SW1010A	BatchID: R243169	Analysis Date: 05/01/2013	Seq No: 5091505							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ignitability	80.00	0	80.00	0	100	93.8	106.2	0	0	0	
--------------	-------	---	-------	---	-----	------	-------	---	---	---	--

Sample ID: 1304M14-001ADUP	Client ID:	Units: °F	Prep Date:	Run No: 243169							
SampleType: DUP	TestCode: Ignitability SW1010A	BatchID: R243169	Analysis Date: 05/01/2013	Seq No: 5091508							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ignitability	180.0	0	0	0	0	0	0	180.0	0	20	>
--------------	-------	---	---	---	---	---	---	-------	---	----	---

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

May 08, 2013

Peter Cornais
Arcadis
1000 Cobb Place Blvd., Bldg. 500-A
Kennesaw GA 30144

TEL: (404) 952-1621
FAX: (770) 428-4004

RE: Lafarge East Point

Dear Peter Cornais:

Order No: 1304L71

Analytical Environmental Services, Inc. received 1 samples on 4/24/2013 2:45:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/12-06/30/13.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/13.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Chantelle Kanhai
Project Manager



ANALYTICAL ENVIRONMENTAL SERVICES, INC

3785 Presidential Parkway, Atlanta GA 30340-3704

TEL: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1304271

Date: _____ Page _____ of _____

COMPANY: Arcadis		ADDRESS: 1000 Cobb Place Blvd Bldg 500A Kennesaw, GA			ANALYSIS REQUESTED								Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.		No. of Containers		
PHONE: 404-952-1602		FAX: Cecilia.Reagan@arcadis-us.com			PRESERVATION (See codes)								REMARKS				
SAMPLED BY: Mark Myers/Cecilia Reagan		SIGNATURE: <i>Cecilia Reagan</i>			TCLP Metals TCLP PAHs 8270 TCLP VOCs 8260B												
#	SAMPLE ID	SAMPLED		Grab	Composite	Matrix (See codes)	PRESERVATION (See codes)								REMARKS	No. of Containers	
		DATE	TIME				I	I	I								
1	Zonel - SP-12	4/24/13	1130	X		SO	I	I	I							RUSH TAT	4
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
RELINQUISHED BY		DATE/TIME		RECEIVED BY		DATE/TIME		PROJECT INFORMATION								RECEIPT	
1: <i>Cecilia Reagan</i>		4/24/13 1200		1: <i>N.C</i>		4.24.13 12:00 PM		PROJECT NAME: <i>Lafarge East Point</i>								Total # of Containers: 4	
2: <i>N.C</i>		4.24.13 2:45p		2: <i>PK</i>		4/24/13 11:45		PROJECT #: <i>H-212-516</i>								Turnaround Time Request	
3:				3:				SITE ADDRESS: <i>2675 N Martin Street</i>								Standard 5 Business Days	
SPECIAL INSTRUCTIONS/COMMENTS: <i>RUSH</i>				SHIPMENT METHOD				SEND REPORT TO: <i>Peter.Cornais@arcadis-us.com</i>								2 Business Day Rush	
<i>Need results on 4/25/13</i>				OUT / / VIA:				INVOICE TO: (IF DIFFERENT FROM ABOVE)								Next Business Day Rush	
				IN / / VIA:				QUOTE #: _____ PO#: _____								Same Day Rush (auth req.)	
				CLIENT FedEx UPS MAIL COURIER				STATE PROGRAM (if any): _____								Other _____	
				GREYHOUND OTHER _____				E-mail? Y/N; Fax? Y/N								DATA PACKAGE: I II III IV	

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES.
 SAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMPLETION UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water
 PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client

Page 2 of 14

Analytical Environmental Services, Inc

Date: 8-May-13

Client: Arcadis	Client Sample ID: ZONE1-SP-12
Project Name: Lafarge East Point	Collection Date: 4/24/2013 11:30:00 AM
Lab ID: 1304L71-001	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
VOLATILES, TCLP SW1311/8260B		(SW1311)						
1,1-Dichloroethene	BRL	0.10		mg/L	175306	20	04/25/2013 13:48	GK
1,2-Dichloroethane	BRL	0.10		mg/L	175306	20	04/25/2013 13:48	GK
2-Butanone	BRL	0.20		mg/L	175306	20	04/25/2013 13:48	GK
Benzene	BRL	0.10		mg/L	175306	20	04/25/2013 13:48	GK
Carbon tetrachloride	BRL	0.10		mg/L	175306	20	04/25/2013 13:48	GK
Chlorobenzene	BRL	0.10		mg/L	175306	20	04/25/2013 13:48	GK
Chloroform	BRL	0.10		mg/L	175306	20	04/25/2013 13:48	GK
Tetrachloroethene	BRL	0.10		mg/L	175306	20	04/25/2013 13:48	GK
Trichloroethene	BRL	0.10		mg/L	175306	20	04/25/2013 13:48	GK
Vinyl chloride	BRL	0.040		mg/L	175306	20	04/25/2013 13:48	GK
Surr: 4-Bromofluorobenzene	89.3	65-129		%REC	175306	20	04/25/2013 13:48	GK
Surr: Dibromofluoromethane	99.1	72.3-129		%REC	175306	20	04/25/2013 13:48	GK
Surr: Toluene-d8	98.8	74.2-118		%REC	175306	20	04/25/2013 13:48	GK
POLYAROMATIC HYDROCARBONS SW8270D		(SW3535A)						
Naphthalene	BRL	100		ug/L	175272	1	04/25/2013 14:41	EI
Acenaphthylene	BRL	100		ug/L	175272	1	04/25/2013 14:41	EI
1-Methylnaphthalene	BRL	100		ug/L	175272	1	04/25/2013 14:41	EI
2-Methylnaphthalene	BRL	100		ug/L	175272	1	04/25/2013 14:41	EI
Acenaphthene	BRL	100		ug/L	175272	1	04/25/2013 14:41	EI
Fluorene	BRL	100		ug/L	175272	1	04/25/2013 14:41	EI
Phenanthrene	BRL	100		ug/L	175272	1	04/25/2013 14:41	EI
Anthracene	BRL	100		ug/L	175272	1	04/25/2013 14:41	EI
Fluoranthene	BRL	100		ug/L	175272	1	04/25/2013 14:41	EI
Pyrene	BRL	100		ug/L	175272	1	04/25/2013 14:41	EI
Benz(a)anthracene	BRL	100		ug/L	175272	1	04/25/2013 14:41	EI
Chrysene	BRL	100		ug/L	175272	1	04/25/2013 14:41	EI
Benzo(b)fluoranthene	BRL	100		ug/L	175272	1	04/25/2013 14:41	EI
Benzo(k)fluoranthene	BRL	100		ug/L	175272	1	04/25/2013 14:41	EI
Benzo(a)pyrene	BRL	100		ug/L	175272	1	04/25/2013 14:41	EI
Dibenz(a,h)anthracene	BRL	100		ug/L	175272	1	04/25/2013 14:41	EI
Benzo(g,h,i)perylene	BRL	100		ug/L	175272	1	04/25/2013 14:41	EI
Indeno(1,2,3-cd)pyrene	BRL	100		ug/L	175272	1	04/25/2013 14:41	EI
Surr: Nitrobenzene-d5	86	35-118		%REC	175272	1	04/25/2013 14:41	EI
Surr: 2-Fluorobiphenyl	88	40.6-116		%REC	175272	1	04/25/2013 14:41	EI
Surr: 4-Terphenyl-d14	103	51.8-124		%REC	175272	1	04/25/2013 14:41	EI
MERCURY, TCLP SW1311/7470A		(SW7470A)						
Mercury	BRL	0.00400		mg/L	175269	1	04/25/2013 12:29	LD
ICP METALS, TCLP SW1311/6010C		(SW3010A)						

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Arcadis	Client Sample ID: ZONE1-SP-12
Project Name: Lafarge East Point	Collection Date: 4/24/2013 11:30:00 AM
Lab ID: 1304L71-001	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
ICP METALS, TCLP SW1311/6010C				(SW3010A)				
Arsenic	BRL	0.250		mg/L	175251	1	04/25/2013 14:37	MR
Barium	1.11	0.500		mg/L	175251	1	04/25/2013 14:37	MR
Cadmium	BRL	0.0250		mg/L	175251	1	04/25/2013 14:37	MR
Chromium	BRL	0.0500		mg/L	175251	1	04/25/2013 14:37	MR
Lead	0.448	0.0500		mg/L	175251	1	04/25/2013 14:37	MR
Selenium	BRL	0.100		mg/L	175251	1	04/25/2013 14:37	MR
Silver	BRL	0.0250		mg/L	175251	1	04/25/2013 14:37	MR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Arcadis Work Order Number 1304671

Checklist completed by [Signature] Date 4/24/13

Carrier name: FedEx UPS Courier Client US Mail Other

Shipping container/cooler in good condition? Yes No Not Present
Custody seals intact on shipping container/cooler? Yes No Not Present
Custody seals intact on sample bottles? Yes No Not Present
Container/Temp Blank temperature in compliance? (4°C±2)* Yes No

Cooler #1 3.1 Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present? Yes No
Chain of custody signed when relinquished and received? Yes No
Chain of custody agrees with sample labels? Yes No
Samples in proper container/bottle? Yes No
Sample containers intact? Yes No
Sufficient sample volume for indicated test? Yes No
All samples received within holding time? Yes No
Was TAT marked on the COC? Yes No
Proceed with Standard TAT as per project history? Yes No Not Applicable
Water - VOA vials have zero headspace? No VOA vials submitted Yes No
Water - pH acceptable upon receipt? Yes No Not Applicable

Sample Condition: Good Adjusted? _____ Other(Explain) _____
Checked by _____
(For diffusive samples or AIHA lead) Is a known blank included? Yes No

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

Client: Arcadis
 Project Name: Lafarge East Point
 Workorder: 1304L71

ANALYTICAL QC SUMMARY REPORT

BatchID: 175251

Sample ID: MB-175251	Client ID:	Units: mg/L	Prep Date: 04/25/2013	Run No: 242822							
SampleType: MBLK	TestCode: ICP METALS, TCLP SW1311/6010C	BatchID: 175251	Analysis Date: 04/25/2013	Seq No: 5084681							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	BRL	0.250	0	0	0	0	0	0	0	0	
Barium	BRL	0.500	0	0	0	0	0	0	0	0	
Cadmium	BRL	0.0250	0	0	0	0	0	0	0	0	
Chromium	BRL	0.0500	0	0	0	0	0	0	0	0	
Lead	BRL	0.0500	0	0	0	0	0	0	0	0	
Selenium	BRL	0.100	0	0	0	0	0	0	0	0	
Silver	BRL	0.0250	0	0	0	0	0	0	0	0	

Sample ID: LCS-175251	Client ID:	Units: mg/L	Prep Date: 04/25/2013	Run No: 242822							
SampleType: LCS	TestCode: ICP METALS, TCLP SW1311/6010C	BatchID: 175251	Analysis Date: 04/25/2013	Seq No: 5084678							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	5.005	0.250	5.000	0	100	85	115	0	0	0	
Barium	4.902	0.500	5.000	0.2093	93.9	80	120	0	0	0	
Cadmium	4.834	0.0250	5.000	0	96.7	85	115	0	0	0	
Chromium	4.762	0.0500	5.000	0	95.2	85	115	0	0	0	
Lead	4.513	0.0500	5.000	0	90.3	85	115	0	0	0	
Selenium	5.015	0.100	5.000	0	100	85	115	0	0	0	
Silver	0.4769	0.0250	0.5000	0	95.4	85	115	0	0	0	

Sample ID: 1304L59-002AMS	Client ID:	Units: mg/L	Prep Date: 04/25/2013	Run No: 242822							
SampleType: MS	TestCode: ICP METALS, TCLP SW1311/6010C	BatchID: 175251	Analysis Date: 04/25/2013	Seq No: 5084684							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	5.391	0.250	5.000	0	108	50	150	0	0	0	
Barium	5.312	0.500	5.000	0.1703	103	50	150	0	0	0	
Cadmium	5.224	0.0250	5.000	0	104	50	150	0	0	0	
Chromium	5.204	0.0500	5.000	0	104	50	150	0	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
 Project Name: Lafarge East Point
 Workorder: 1304L71

ANALYTICAL QC SUMMARY REPORT

BatchID: 175251

Sample ID: 1304L59-002AMS	Client ID:	Units: mg/L	Prep Date: 04/25/2013	Run No: 242822							
SampleType: MS	TestCode: ICP METALS, TCLP SW1311/6010C	BatchID: 175251	Analysis Date: 04/25/2013	Seq No: 5084684							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Lead	5.016	0.0500	5.000	0	100	50	150	0	0	0	
Selenium	5.481	0.100	5.000	0	110	50	150	0	0	0	
Silver	0.5164	0.0250	0.5000	0	103	50	150	0	0	0	

Sample ID: 1304L59-002AMSD	Client ID:	Units: mg/L	Prep Date: 04/25/2013	Run No: 242822							
SampleType: MSD	TestCode: ICP METALS, TCLP SW1311/6010C	BatchID: 175251	Analysis Date: 04/25/2013	Seq No: 5084685							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	5.289	0.250	5.000	0	106	50	150	5.391	1.90	30	
Barium	5.122	0.500	5.000	0.1703	99.0	50	150	5.312	3.64	30	
Cadmium	5.100	0.0250	5.000	0	102	50	150	5.224	2.41	30	
Chromium	5.068	0.0500	5.000	0	101	50	150	5.204	2.65	30	
Lead	4.840	0.0500	5.000	0	96.8	50	150	5.016	3.57	30	
Selenium	5.343	0.100	5.000	0	107	50	150	5.481	2.56	30	
Silver	0.5043	0.0250	0.5000	0	101	50	150	0.5164	2.37	30	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
 Project Name: Lafarge East Point
 Workorder: 1304L71

ANALYTICAL QC SUMMARY REPORT

BatchID: 175269

Sample ID: MB-175269	Client ID:	Units: mg/L	Prep Date: 04/25/2013	Run No: 242813							
SampleType: MBLK	TestCode: MERCURY, TCLP SW1311/7470A	BatchID: 175269	Analysis Date: 04/25/2013	Seq No: 5084475							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Mercury BRL 0.00400 0 0 0 0 0 0 0 0 0

Sample ID: LCS-175269	Client ID:	Units: mg/L	Prep Date: 04/25/2013	Run No: 242813							
SampleType: LCS	TestCode: MERCURY, TCLP SW1311/7470A	BatchID: 175269	Analysis Date: 04/25/2013	Seq No: 5084476							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Mercury 0.03846 0.00400 0.0400 0 96.2 85 115 0 0 0

Sample ID: 1304K73-001AMS	Client ID:	Units: mg/L	Prep Date: 04/25/2013	Run No: 242813							
SampleType: MS	TestCode: MERCURY, TCLP SW1311/7470A	BatchID: 175269	Analysis Date: 04/25/2013	Seq No: 5084478							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Mercury 0.03944 0.00400 0.0400 0 98.6 80 120 0 0 0

Sample ID: 1304K73-001AMSD	Client ID:	Units: mg/L	Prep Date: 04/25/2013	Run No: 242813							
SampleType: MSD	TestCode: MERCURY, TCLP SW1311/7470A	BatchID: 175269	Analysis Date: 04/25/2013	Seq No: 5084479							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Mercury 0.03895 0.00400 0.0400 0 97.4 80 120 0.03944 1.24 20

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Arcadis
Project Name: Lafarge East Point
Workorder: 1304L71

ANALYTICAL QC SUMMARY REPORT

BatchID: 175272

Sample ID: MB-175272	Client ID:	Units: ug/L	Prep Date: 04/25/2013	Run No: 242838							
SampleType: MBLK	TestCode: POLYAROMATIC HYDROCARBONS SW8270D	BatchID: 175272	Analysis Date: 04/25/2013	Seq No: 5084993							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1-Methylnaphthalene	BRL	100	0	0	0	0	0	0	0	0	0
2-Methylnaphthalene	BRL	100	0	0	0	0	0	0	0	0	0
Acenaphthene	BRL	100	0	0	0	0	0	0	0	0	0
Acenaphthylene	BRL	100	0	0	0	0	0	0	0	0	0
Anthracene	BRL	100	0	0	0	0	0	0	0	0	0
Benz(a)anthracene	BRL	100	0	0	0	0	0	0	0	0	0
Benzo(a)pyrene	BRL	100	0	0	0	0	0	0	0	0	0
Benzo(b)fluoranthene	BRL	100	0	0	0	0	0	0	0	0	0
Benzo(g,h,i)perylene	BRL	100	0	0	0	0	0	0	0	0	0
Benzo(k)fluoranthene	BRL	100	0	0	0	0	0	0	0	0	0
Chrysene	BRL	100	0	0	0	0	0	0	0	0	0
Dibenz(a,h)anthracene	BRL	100	0	0	0	0	0	0	0	0	0
Fluoranthene	BRL	100	0	0	0	0	0	0	0	0	0
Fluorene	BRL	100	0	0	0	0	0	0	0	0	0
Indeno(1,2,3-cd)pyrene	BRL	100	0	0	0	0	0	0	0	0	0
Naphthalene	BRL	100	0	0	0	0	0	0	0	0	0
Phenanthrene	BRL	100	0	0	0	0	0	0	0	0	0
Pyrene	BRL	100	0	0	0	0	0	0	0	0	0
Surr: 2-Fluorobiphenyl	442.4	0	500.0	0	88.5	40.6	116	0	0	0	0
Surr: 4-Terphenyl-d14	526.1	0	500.0	0	105	51.8	124	0	0	0	0
Surr: Nitrobenzene-d5	442.0	0	500.0	0	88.4	35	118	0	0	0	0

Sample ID: LCS-175272	Client ID:	Units: ug/L	Prep Date: 04/25/2013	Run No: 242838							
SampleType: LCS	TestCode: POLYAROMATIC HYDROCARBONS SW8270D	BatchID: 175272	Analysis Date: 04/25/2013	Seq No: 5084994							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1-Methylnaphthalene	438.0	100	500.0	0	87.6	52.5	120	0	0	0	0
2-Methylnaphthalene	440.1	100	500.0	0	88.0	50.9	120	0	0	0	0

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
 Project Name: Lafarge East Point
 Workorder: 1304L71

ANALYTICAL QC SUMMARY REPORT

BatchID: 175272

Sample ID: LCS-175272	Client ID:	Units: ug/L	Prep Date: 04/25/2013	Run No: 242838							
SampleType: LCS	TestCode: POLYAROMATIC HYDROCARBONS SW8270D	BatchID: 175272	Analysis Date: 04/25/2013	Seq No: 5084994							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Acenaphthene	465.8	100	500.0	0	93.2	49	120	0	0	0	
Acenaphthylene	568.1	100	500.0	0	114	58.5	123	0	0	0	
Anthracene	434.5	100	500.0	0	86.9	55.6	120	0	0	0	
Benz(a)anthracene	492.3	100	500.0	0	98.5	52.6	120	0	0	0	
Benzo(a)pyrene	501.7	100	500.0	0	100	53	120	0	0	0	
Benzo(b)fluoranthene	457.1	100	500.0	0	91.4	49.5	120	0	0	0	
Benzo(g,h,i)perylene	461.8	100	500.0	0	92.4	50	120	0	0	0	
Benzo(k)fluoranthene	472.9	100	500.0	0	94.6	50	120	0	0	0	
Chrysene	491.4	100	500.0	0	98.3	51.3	120	0	0	0	
Dibenz(a,h)anthracene	461.6	100	500.0	0	92.3	50.1	120	0	0	0	
Fluoranthene	414.1	100	500.0	0	82.8	59.5	124	0	0	0	
Fluorene	461.3	100	500.0	0	92.3	51.1	120	0	0	0	
Indeno(1,2,3-cd)pyrene	470.4	100	500.0	0	94.1	51.1	120	0	0	0	
Naphthalene	438.6	100	500.0	0	87.7	50.8	120	0	0	0	
Phenanthrene	431.2	100	500.0	0	86.2	54.4	120	0	0	0	
Pyrene	498.0	100	500.0	0	99.6	52.7	120	0	0	0	
Surr: 2-Fluorobiphenyl	451.0	0	500.0	0	90.2	40.6	116	0	0	0	
Surr: 4-Terphenyl-d14	548.5	0	500.0	0	110	51.8	124	0	0	0	
Surr: Nitrobenzene-d5	442.5	0	500.0	0	88.5	35	118	0	0	0	

Sample ID: 1304L71-001BMS	Client ID: ZONE1-SP-12	Units: ug/L	Prep Date: 04/25/2013	Run No: 242838							
SampleType: MS	TestCode: POLYAROMATIC HYDROCARBONS SW8270D	BatchID: 175272	Analysis Date: 04/25/2013	Seq No: 5084997							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1-Methylnaphthalene	429.7	100	500.0	0	85.9	41.7	120	0	0	0	
2-Methylnaphthalene	433.9	100	500.0	0	86.8	40.2	120	0	0	0	
Acenaphthene	470.0	100	500.0	0	94.0	40.6	120	0	0	0	
Acenaphthylene	571.4	100	500.0	0	114	43.3	123	0	0	0	

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Arcadis
 Project Name: Lafarge East Point
 Workorder: 1304L71

ANALYTICAL QC SUMMARY REPORT

BatchID: 175272

Sample ID: 1304L71-001BMS	Client ID: ZONE1-SP-12	Units: ug/L	Prep Date: 04/25/2013	Run No: 242838
SampleType: MS	TestCode: POLYAROMATIC HYDROCARBONS SW8270D	BatchID: 175272	Analysis Date: 04/25/2013	Seq No: 5084997

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Anthracene	429.7	100	500.0	0	85.9	49.3	120	0	0	0	
Benz(a)anthracene	490.6	100	500.0	0	98.1	50.4	120	0	0	0	
Benzo(a)pyrene	482.4	100	500.0	0	96.5	49.4	120	0	0	0	
Benzo(b)fluoranthene	420.3	100	500.0	0	84.1	47.7	120	0	0	0	
Benzo(g,h,i)perylene	440.8	100	500.0	0	88.2	45.4	120	0	0	0	
Benzo(k)fluoranthene	487.5	100	500.0	0	97.5	48.4	120	0	0	0	
Chrysene	484.6	100	500.0	0	96.9	50.9	120	0	0	0	
Dibenz(a,h)anthracene	441.1	100	500.0	0	88.2	49.3	120	0	0	0	
Fluoranthene	411.0	100	500.0	0	82.2	51.8	124	0	0	0	
Fluorene	460.9	100	500.0	0	92.2	44.4	120	0	0	0	
Indeno(1,2,3-cd)pyrene	454.7	100	500.0	0	90.9	50.9	120	0	0	0	
Naphthalene	428.6	100	500.0	0	85.7	35.7	120	0	0	0	
Phenanthrene	428.9	100	500.0	0	85.8	48.8	120	0	0	0	
Pyrene	480.0	100	500.0	0	96.0	50.9	120	0	0	0	
Surr: 2-Fluorobiphenyl	459.3	0	500.0	0	91.9	40.6	116	0	0	0	
Surr: 4-Terphenyl-d14	537.7	0	500.0	0	108	51.8	124	0	0	0	
Surr: Nitrobenzene-d5	441.2	0	500.0	0	88.2	35	118	0	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
Project Name: Lafarge East Point
Workorder: 1304L71

ANALYTICAL QC SUMMARY REPORT

BatchID: 175306

Sample ID: MB-175306	Client ID:	Units: mg/L	Prep Date: 04/25/2013	Run No: 242801							
SampleType: MBLK	TestCode: VOLATILES, TCLP SW1311/8260B	BatchID: 175306	Analysis Date: 04/25/2013	Seq No: 5084457							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	BRL	0.10	0	0	0	0	0	0	0	0	
1,2-Dichloroethane	BRL	0.10	0	0	0	0	0	0	0	0	
2-Butanone	BRL	0.20	0	0	0	0	0	0	0	0	
Benzene	BRL	0.10	0	0	0	0	0	0	0	0	
Carbon tetrachloride	BRL	0.10	0	0	0	0	0	0	0	0	
Chlorobenzene	BRL	0.10	0	0	0	0	0	0	0	0	
Chloroform	BRL	0.10	0	0	0	0	0	0	0	0	
Tetrachloroethene	BRL	0.10	0	0	0	0	0	0	0	0	
Trichloroethene	BRL	0.10	0	0	0	0	0	0	0	0	
Vinyl chloride	BRL	0.040	0	0	0	0	0	0	0	0	
Surr: 4-Bromofluorobenzene	0.9010	0	1.000	0	90.1	65	129	0	0	0	
Surr: Dibromofluoromethane	0.9780	0	1.000	0	97.8	72.3	129	0	0	0	
Surr: Toluene-d8	0.9858	0	1.000	0	98.6	74.2	118	0	0	0	

Sample ID: LCS-175306	Client ID:	Units: mg/L	Prep Date: 04/25/2013	Run No: 242801							
SampleType: LCS	TestCode: VOLATILES, TCLP SW1311/8260B	BatchID: 175306	Analysis Date: 04/25/2013	Seq No: 5084403							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	1.045	0.10	1.000	0	104	53	139	0	0	0	
1,2-Dichloroethane	0.8860	0.10	1.000	0	88.6	62	143	0	0	0	
2-Butanone	1.705	0.20	2.000	0	85.3	42	146	0	0	0	
Benzene	0.8148	0.10	1.000	0	81.5	70.6	128	0	0	0	
Carbon tetrachloride	0.5784	0.10	1.000	0	57.8	56	146	0	0	0	
Chlorobenzene	0.8832	0.10	1.000	0	88.3	73	121	0	0	0	
Chloroform	0.7560	0.10	1.000	0	75.6	64.6	129	0	0	0	
Tetrachloroethene	0.8742	0.10	1.000	0	87.4	70.5	131	0	0	0	
Trichloroethene	0.8610	0.10	1.000	0	86.1	69.3	129	0	0	0	
Vinyl chloride	0.7780	0.040	1.000	0	77.8	46.1	139	0	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
 Project Name: Lafarge East Point
 Workorder: 1304L71

ANALYTICAL QC SUMMARY REPORT

BatchID: 175306

Sample ID: LCS-175306	Client ID:	Units: mg/L	Prep Date: 04/25/2013	Run No: 242801							
SampleType: LCS	TestCode: VOLATILES, TCLP SW1311/8260B	BatchID: 175306	Analysis Date: 04/25/2013	Seq No: 5084403							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Surr: 4-Bromofluorobenzene	0.8904	0	1.000	0	89.0	65	129	0	0	0	
Surr: Dibromofluoromethane	1.025	0	1.000	0	102	72.3	129	0	0	0	
Surr: Toluene-d8	1.022	0	1.000	0	102	74.2	118	0	0	0	

Sample ID: 1304L80-001AMS	Client ID:	Units: mg/L	Prep Date: 04/25/2013	Run No: 242801							
SampleType: MS	TestCode: VOLATILES, TCLP SW1311/8260B	BatchID: 175306	Analysis Date: 04/25/2013	Seq No: 5084641							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	1.148	0.10	1.000	0	115	52.3	155	0	0	0	
1,2-Dichloroethane	0.9066	0.10	1.000	0	90.7	58.3	144	0	0	0	
2-Butanone	1.792	0.20	2.000	0	89.6	39.1	160	0	0	0	
Benzene	0.8834	0.10	1.000	0	88.3	70	139	0	0	0	
Carbon tetrachloride	0.7016	0.10	1.000	0	70.2	53.3	147	0	0	0	
Chlorobenzene	0.9460	0.10	1.000	0	94.6	72.2	132	0	0	0	
Chloroform	0.8098	0.10	1.000	0	81.0	63.7	135	0	0	0	
Tetrachloroethene	1.004	0.10	1.000	0	100	70	148	0	0	0	
Trichloroethene	0.9096	0.10	1.000	0	91.0	67.8	149	0	0	0	
Vinyl chloride	0.9826	0.040	1.000	0	98.3	46.1	152	0	0	0	
Surr: 4-Bromofluorobenzene	0.9150	0	1.000	0	91.5	65	129	0	0	0	
Surr: Dibromofluoromethane	1.034	0	1.000	0	103	72.3	129	0	0	0	
Surr: Toluene-d8	0.9972	0	1.000	0	99.7	74.2	118	0	0	0	

Sample ID: 1304L80-001ADUP	Client ID:	Units: mg/L	Prep Date: 04/25/2013	Run No: 242801							
SampleType: DUP	TestCode: VOLATILES, TCLP SW1311/8260B	BatchID: 175306	Analysis Date: 04/25/2013	Seq No: 5084566							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	BRL	0.10	0	0	0	0	0	0	0	30	
1,2-Dichloroethane	BRL	0.10	0	0	0	0	0	0	0	30	

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Arcadis
 Project Name: Lafarge East Point
 Workorder: 1304L71

ANALYTICAL QC SUMMARY REPORT

BatchID: 175306

Sample ID: 1304L80-001ADUP	Client ID:	Units: mg/L	Prep Date: 04/25/2013	Run No: 242801							
SampleType: DUP	TestCode: VOLATILES, TCLP SW1311/8260B	BatchID: 175306	Analysis Date: 04/25/2013	Seq No: 5084566							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2-Butanone	BRL	0.20	0	0	0	0	0	0	0	30	
Benzene	BRL	0.10	0	0	0	0	0	0	0	30	
Carbon tetrachloride	BRL	0.10	0	0	0	0	0	0	0	30	
Chlorobenzene	BRL	0.10	0	0	0	0	0	0	0	30	
Chloroform	BRL	0.10	0	0	0	0	0	0	0	30	
Tetrachloroethene	BRL	0.10	0	0	0	0	0	0	0	30	
Trichloroethene	BRL	0.10	0	0	0	0	0	0	0	30	
Vinyl chloride	BRL	0.040	0	0	0	0	0	0	0	30	
Surr: 4-Bromofluorobenzene	0.8754	0	1.000	0	87.5	65	129	0.8890	0	0	
Surr: Dibromofluoromethane	0.9640	0	1.000	0	96.4	72.3	129	0.9850	0	0	
Surr: Toluene-d8	0.9918	0	1.000	0	99.2	74.2	118	0.9832	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-106703-1
Client Project/Site: Atlanta NAPL Project

For:
ARCADIS U.S., Inc.
8201 Peters Road, Suite 3400
Plantation, Florida 33323

Attn: Mr. Gregory Sitomer



Authorized for release by:
11/11/2014 11:06:18 AM

Amy Atkins, Project Manager II
(813)885-7427
amy.atkins@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

10

11

12

Definitions/Glossary

Client: ARCADIS U.S., Inc.
Project/Site: Atlanta NAPL Project

TestAmerica Job ID: 680-106703-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Sample Summary

Client: ARCADIS U.S., Inc.
Project/Site: Atlanta NAPL Project

TestAmerica Job ID: 680-106703-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-106703-1	C3 Product (102814)	Waste	10/28/14 11:32	10/29/14 09:41

1

2

3

4

5

6

7

8

9

10

11

12

Case Narrative

Client: ARCADIS U.S., Inc.
Project/Site: Atlanta NAPL Project

TestAmerica Job ID: 680-106703-1

Job ID: 680-106703-1

Laboratory: TestAmerica Savannah

Narrative

**Job Narrative
680-106703-1**

Receipt

The sample was received on 10/29/2014 9:41 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.6° C.

GC/MS VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

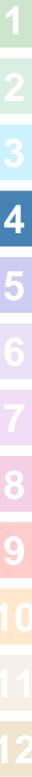
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.



Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Atlanta NAPL Project

TestAmerica Job ID: 680-106703-1

Client Sample ID: C3 Product (102814)

Lab Sample ID: 680-106703-1

Date Collected: 10/28/14 11:32

Matrix: Waste

Date Received: 10/29/14 09:41

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	500000000	U	500000000	500000000	ug/Kg		10/30/14 16:18	10/30/14 18:17	100000 0
Benzene	50000000	U	50000000	50000000	ug/Kg		10/30/14 16:18	10/30/14 18:17	100000 0
2-Butanone (MEK)	250000000	U	250000000	250000000	ug/Kg		10/30/14 16:18	10/30/14 18:17	100000 0
Chlorobenzene	50000000	U	50000000	50000000	ug/Kg		10/30/14 16:18	10/30/14 18:17	100000 0
Chloroform	50000000	U	50000000	50000000	ug/Kg		10/30/14 16:18	10/30/14 18:17	100000 0
1,1-Dichloroethane	50000000	U	50000000	50000000	ug/Kg		10/30/14 16:18	10/30/14 18:17	100000 0
1,2-Dichloroethane	50000000	U	50000000	50000000	ug/Kg		10/30/14 16:18	10/30/14 18:17	100000 0
1,1-Dichloroethene	50000000	U	50000000	50000000	ug/Kg		10/30/14 16:18	10/30/14 18:17	100000 0
Dichloromethane	50000000	U	50000000	50000000	ug/Kg		10/30/14 16:18	10/30/14 18:17	100000 0
Ethylbenzene	50000000	U	50000000	50000000	ug/Kg		10/30/14 16:18	10/30/14 18:17	100000 0
4-Methyl-2-pentanone (MIBK)	250000000	U	250000000	250000000	ug/Kg		10/30/14 16:18	10/30/14 18:17	100000 0
1,1,2,2-Tetrachloroethane	50000000	U	50000000	50000000	ug/Kg		10/30/14 16:18	10/30/14 18:17	100000 0
Tetrachloroethene	50000000	U	50000000	50000000	ug/Kg		10/30/14 16:18	10/30/14 18:17	100000 0
Toluene	690000000		50000000	50000000	ug/Kg		10/30/14 16:18	10/30/14 18:17	100000 0
trans-1,2-Dichloroethene	50000000	U	50000000	50000000	ug/Kg		10/30/14 16:18	10/30/14 18:17	100000 0
1,1,1-Trichloroethane	50000000	U	50000000	50000000	ug/Kg		10/30/14 16:18	10/30/14 18:17	100000 0
1,1,2-Trichloroethane	50000000	U	50000000	50000000	ug/Kg		10/30/14 16:18	10/30/14 18:17	100000 0
Trichloroethene	260000000		50000000	50000000	ug/Kg		10/30/14 16:18	10/30/14 18:17	100000 0
Vinyl chloride	50000000	U	50000000	50000000	ug/Kg		10/30/14 16:18	10/30/14 18:17	100000 0
Xylenes, Total	230000000		99000000	99000000	ug/Kg		10/30/14 16:18	10/30/14 18:17	100000 0

Method: 8260B - Volatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10000	U	10000	10000	mg/L			11/05/14 17:14	100000 0
Benzene	1000	U	1000	1000	mg/L			11/05/14 17:14	100000 0
2-Butanone (MEK)	10000	U	10000	10000	mg/L			11/05/14 17:14	100000 0
Chlorobenzene	1000	U	1000	1000	mg/L			11/05/14 17:14	100000 0
Chloroform	1000	U	1000	1000	mg/L			11/05/14 17:14	100000 0
1,1-Dichloroethane	1000	U	1000	1000	mg/L			11/05/14 17:14	100000 0

TestAmerica Savannah

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Atlanta NAPL Project

TestAmerica Job ID: 680-106703-1

Client Sample ID: C3 Product (102814)

Lab Sample ID: 680-106703-1

Date Collected: 10/28/14 11:32

Matrix: Waste

Date Received: 10/29/14 09:41

Method: 8260B - Volatile Organic Compounds (GC/MS) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	1000	U	1000	1000	mg/L			11/05/14 17:14	100000 0
trans-1,2-Dichloroethene	1000	U	1000	1000	mg/L			11/05/14 17:14	100000 0
1,1-Dichloroethene	1000	U	1000	1000	mg/L			11/05/14 17:14	100000 0
Ethylbenzene	1700		1000	1000	mg/L			11/05/14 17:14	100000 0
Dichloromethane	5000	U	5000	5000	mg/L			11/05/14 17:14	100000 0
4-Methyl-2-pentanone (MIBK)	10000	U	10000	10000	mg/L			11/05/14 17:14	100000 0
1,1,1,2-Tetrachloroethane	1000	U	1000	1000	mg/L			11/05/14 17:14	100000 0
Tetrachloroethene	1000	U	1000	1000	mg/L			11/05/14 17:14	100000 0
Toluene	47000		1000	1000	mg/L			11/05/14 17:14	100000 0
1,1,1-Trichloroethane	1000	U	1000	1000	mg/L			11/05/14 17:14	100000 0
1,1,2-Trichloroethane	1000	U	1000	1000	mg/L			11/05/14 17:14	100000 0
Trichloroethene	11000		1000	1000	mg/L			11/05/14 17:14	100000 0
Vinyl chloride	1000	U	1000	1000	mg/L			11/05/14 17:14	100000 0
Xylenes, Total	9300		2000	2000	mg/L			11/05/14 17:14	100000 0

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Halogens	25000		790	790	mg/Kg		11/04/14 14:24	11/08/14 00:52	4

Method: 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.48	U	0.48	0.48	mg/L		10/31/14 08:24	10/31/14 21:59	1
Arsenic	0.96	U	0.96	0.96	mg/L		10/31/14 08:24	10/31/14 21:59	1
Barium	0.48	U	0.48	0.48	mg/L		10/31/14 08:24	10/31/14 21:59	1
Cadmium	0.24	U	0.24	0.24	mg/L		10/31/14 08:24	10/31/14 21:59	1
Chromium	0.48	U	0.48	0.48	mg/L		10/31/14 08:24	10/31/14 21:59	1
Lead	0.48	U	0.48	0.48	mg/L		10/31/14 08:24	10/31/14 21:59	1
Selenium	0.96	U	0.96	0.96	mg/L		10/31/14 08:24	10/31/14 21:59	1

Method: 7471A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.018	U	0.018	0.018	mg/L		11/04/14 09:18	11/04/14 13:54	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	70.0	U	70.0	70.0	Degrees F			11/03/14 15:30	1
BTU	19000		2.0	2.0	BTU/lb		11/04/14 11:27	11/04/14 11:27	1
Percent Water	0.020	U	0.020	0.020	%			11/04/14 16:20	1

TestAmerica Savannah

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Atlanta NAPL Project

TestAmerica Job ID: 680-106703-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-356129/10

Matrix: Waste

Analysis Batch: 356129

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	49	U	49	49	ug/Kg			10/30/14 16:34	1
Benzene	4.9	U	4.9	4.9	ug/Kg			10/30/14 16:34	1
2-Butanone (MEK)	25	U	25	25	ug/Kg			10/30/14 16:34	1
Chlorobenzene	4.9	U	4.9	4.9	ug/Kg			10/30/14 16:34	1
Chloroform	4.9	U	4.9	4.9	ug/Kg			10/30/14 16:34	1
1,1-Dichloroethane	4.9	U	4.9	4.9	ug/Kg			10/30/14 16:34	1
1,2-Dichloroethane	4.9	U	4.9	4.9	ug/Kg			10/30/14 16:34	1
1,1-Dichloroethene	4.9	U	4.9	4.9	ug/Kg			10/30/14 16:34	1
Ethylbenzene	4.9	U	4.9	4.9	ug/Kg			10/30/14 16:34	1
Dichloromethane	4.9	U	4.9	4.9	ug/Kg			10/30/14 16:34	1
4-Methyl-2-pentanone (MIBK)	25	U	25	25	ug/Kg			10/30/14 16:34	1
1,1,1,2-Tetrachloroethane	4.9	U	4.9	4.9	ug/Kg			10/30/14 16:34	1
Tetrachloroethene	4.9	U	4.9	4.9	ug/Kg			10/30/14 16:34	1
Toluene	4.9	U	4.9	4.9	ug/Kg			10/30/14 16:34	1
trans-1,2-Dichloroethene	4.9	U	4.9	4.9	ug/Kg			10/30/14 16:34	1
1,1,1-Trichloroethane	4.9	U	4.9	4.9	ug/Kg			10/30/14 16:34	1
1,1,2-Trichloroethane	4.9	U	4.9	4.9	ug/Kg			10/30/14 16:34	1
Trichloroethene	4.9	U	4.9	4.9	ug/Kg			10/30/14 16:34	1
Vinyl chloride	4.9	U	4.9	4.9	ug/Kg			10/30/14 16:34	1
Xylenes, Total	9.9	U	9.9	9.9	ug/Kg			10/30/14 16:34	1

Lab Sample ID: LCS 680-356129/3

Matrix: Waste

Analysis Batch: 356129

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	248	234		ug/Kg		94	30 - 130
Benzene	49.6	50.2		ug/Kg		101	30 - 130
2-Butanone (MEK)	248	240		ug/Kg		97	30 - 130
Chlorobenzene	49.6	49.6		ug/Kg		100	30 - 130
Chloroform	49.6	50.1		ug/Kg		101	30 - 130
1,1-Dichloroethane	49.6	51.1		ug/Kg		103	30 - 130
1,2-Dichloroethane	49.6	47.4		ug/Kg		96	30 - 130
1,1-Dichloroethene	49.6	50.6		ug/Kg		102	30 - 130
Ethylbenzene	49.6	49.2		ug/Kg		99	30 - 130
Dichloromethane	49.6	48.5		ug/Kg		98	30 - 130
4-Methyl-2-pentanone (MIBK)	248	240		ug/Kg		97	30 - 130
1,1,1,2-Tetrachloroethane	49.6	49.7		ug/Kg		100	30 - 130
Tetrachloroethene	49.6	49.5		ug/Kg		100	30 - 130
Toluene	49.6	49.2		ug/Kg		99	30 - 130
trans-1,2-Dichloroethene	49.6	53.7		ug/Kg		108	30 - 130
1,1,1-Trichloroethane	49.6	50.7		ug/Kg		102	30 - 130
1,1,2-Trichloroethane	49.6	47.5		ug/Kg		96	30 - 130
Trichloroethene	49.6	50.5		ug/Kg		102	30 - 130
Vinyl chloride	49.6	51.0		ug/Kg		103	30 - 130
Xylenes, Total	99.2	98.7		ug/Kg		99	30 - 130

TestAmerica Savannah

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Atlanta NAPL Project

TestAmerica Job ID: 680-106703-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-356129/8

Matrix: Waste

Analysis Batch: 356129

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD
							Limits	RPD	
Acetone	244	244		ug/Kg		100	30 - 130	4	50
Benzene	48.7	52.2		ug/Kg		107	30 - 130	4	50
2-Butanone (MEK)	244	257		ug/Kg		106	30 - 130	7	50
Chlorobenzene	48.7	50.7		ug/Kg		104	30 - 130	2	50
Chloroform	48.7	52.3		ug/Kg		107	30 - 130	4	50
1,1-Dichloroethane	48.7	54.6		ug/Kg		112	30 - 130	7	50
1,2-Dichloroethane	48.7	50.9		ug/Kg		104	30 - 130	7	50
1,1-Dichloroethane	48.7	53.0		ug/Kg		109	30 - 130	5	50
Ethylbenzene	48.7	51.2		ug/Kg		105	30 - 130	4	50
Dichloromethane	48.7	52.1		ug/Kg		107	30 - 130	7	50
4-Methyl-2-pentanone (MIBK)	244	257		ug/Kg		106	30 - 130	7	50
1,1,2,2-Tetrachloroethane	48.7	52.7		ug/Kg		108	30 - 130	6	50
Tetrachloroethene	48.7	51.2		ug/Kg		105	30 - 130	3	50
Toluene	48.7	50.5		ug/Kg		104	30 - 130	2	50
trans-1,2-Dichloroethene	48.7	56.4		ug/Kg		116	30 - 130	5	50
1,1,1-Trichloroethane	48.7	52.9		ug/Kg		109	30 - 130	4	50
1,1,2-Trichloroethane	48.7	50.7		ug/Kg		104	30 - 130	7	50
Trichloroethene	48.7	52.5		ug/Kg		108	30 - 130	4	50
Vinyl chloride	48.7	54.2		ug/Kg		111	30 - 130	6	50
Xylenes, Total	97.5	103		ug/Kg		105	30 - 130	4	50

Lab Sample ID: MB 680-356978/9

Matrix: Waste

Analysis Batch: 356978

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	0.010	U	0.010	0.010	mg/L			11/05/14 14:01	1
Benzene	0.0010	U	0.0010	0.0010	mg/L			11/05/14 14:01	1
2-Butanone (MEK)	0.010	U	0.010	0.010	mg/L			11/05/14 14:01	1
Chlorobenzene	0.0010	U	0.0010	0.0010	mg/L			11/05/14 14:01	1
Chloroform	0.0010	U	0.0010	0.0010	mg/L			11/05/14 14:01	1
1,1-Dichloroethane	0.0010	U	0.0010	0.0010	mg/L			11/05/14 14:01	1
1,2-Dichloroethane	0.0010	U	0.0010	0.0010	mg/L			11/05/14 14:01	1
1,1-Dichloroethane	0.0010	U	0.0010	0.0010	mg/L			11/05/14 14:01	1
Ethylbenzene	0.0010	U	0.0010	0.0010	mg/L			11/05/14 14:01	1
Dichloromethane	0.0050	U	0.0050	0.0050	mg/L			11/05/14 14:01	1
4-Methyl-2-pentanone (MIBK)	0.010	U	0.010	0.010	mg/L			11/05/14 14:01	1
1,1,2,2-Tetrachloroethane	0.0010	U	0.0010	0.0010	mg/L			11/05/14 14:01	1
Tetrachloroethene	0.0010	U	0.0010	0.0010	mg/L			11/05/14 14:01	1
Toluene	0.0010	U	0.0010	0.0010	mg/L			11/05/14 14:01	1
trans-1,2-Dichloroethene	0.0010	U	0.0010	0.0010	mg/L			11/05/14 14:01	1
1,1,1-Trichloroethane	0.0010	U	0.0010	0.0010	mg/L			11/05/14 14:01	1
1,1,2-Trichloroethane	0.0010	U	0.0010	0.0010	mg/L			11/05/14 14:01	1
Trichloroethene	0.0010	U	0.0010	0.0010	mg/L			11/05/14 14:01	1
Vinyl chloride	0.0010	U	0.0010	0.0010	mg/L			11/05/14 14:01	1
Xylenes, Total	0.0020	U	0.0020	0.0020	mg/L			11/05/14 14:01	1

TestAmerica Savannah

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Atlanta NAPL Project

TestAmerica Job ID: 680-106703-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-356978/4

Matrix: Waste

Analysis Batch: 356978

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.250	0.243		mg/L		97	30 - 130
Benzene	0.0500	0.0501		mg/L		100	30 - 130
2-Butanone (MEK)	0.250	0.238		mg/L		95	30 - 130
Chlorobenzene	0.0500	0.0479		mg/L		96	30 - 130
Chloroform	0.0500	0.0473		mg/L		95	30 - 130
1,1-Dichloroethane	0.0500	0.0478		mg/L		96	30 - 130
1,2-Dichloroethane	0.0500	0.0499		mg/L		100	30 - 130
1,1-Dichloroethane	0.0500	0.0426		mg/L		85	30 - 130
Ethylbenzene	0.0500	0.0504		mg/L		101	30 - 130
Dichloromethane	0.0500	0.0451		mg/L		90	30 - 130
4-Methyl-2-pentanone (MIBK)	0.250	0.267		mg/L		107	30 - 130
1,1,2,2-Tetrachloroethane	0.0500	0.0510		mg/L		102	30 - 130
Tetrachloroethene	0.0500	0.0447		mg/L		89	30 - 130
Toluene	0.0500	0.0493		mg/L		99	30 - 130
trans-1,2-Dichloroethene	0.0500	0.0475		mg/L		95	30 - 130
1,1,1-Trichloroethane	0.0500	0.0477		mg/L		95	30 - 130
1,1,2-Trichloroethane	0.0500	0.0510		mg/L		102	30 - 130
Trichloroethene	0.0500	0.0478		mg/L		96	30 - 130
Vinyl chloride	0.0500	0.0398		mg/L		80	30 - 130
Xylenes, Total	0.100	0.103		mg/L		103	30 - 130

Lab Sample ID: LCSD 680-356978/5

Matrix: Waste

Analysis Batch: 356978

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	0.250	0.220		mg/L		88	30 - 130	10	50
Benzene	0.0500	0.0492		mg/L		98	30 - 130	2	50
2-Butanone (MEK)	0.250	0.239		mg/L		96	30 - 130	1	50
Chlorobenzene	0.0500	0.0477		mg/L		95	30 - 130	0	50
Chloroform	0.0500	0.0489		mg/L		98	30 - 130	3	50
1,1-Dichloroethane	0.0500	0.0468		mg/L		94	30 - 130	2	50
1,2-Dichloroethane	0.0500	0.0476		mg/L		95	30 - 130	5	50
1,1-Dichloroethane	0.0500	0.0404		mg/L		81	30 - 130	6	50
Ethylbenzene	0.0500	0.0500		mg/L		100	30 - 130	1	50
Dichloromethane	0.0500	0.0445		mg/L		89	30 - 130	1	50
4-Methyl-2-pentanone (MIBK)	0.250	0.263		mg/L		105	30 - 130	2	50
1,1,2,2-Tetrachloroethane	0.0500	0.0498		mg/L		100	30 - 130	2	50
Tetrachloroethene	0.0500	0.0423		mg/L		85	30 - 130	6	50
Toluene	0.0500	0.0474		mg/L		95	30 - 130	4	50
trans-1,2-Dichloroethene	0.0500	0.0456		mg/L		91	30 - 130	4	50
1,1,1-Trichloroethane	0.0500	0.0469		mg/L		94	30 - 130	2	50
1,1,2-Trichloroethane	0.0500	0.0495		mg/L		99	30 - 130	3	50
Trichloroethene	0.0500	0.0466		mg/L		93	30 - 130	2	50
Vinyl chloride	0.0500	0.0402		mg/L		80	30 - 130	1	50
Xylenes, Total	0.100	0.101		mg/L		101	30 - 130	2	50

TestAmerica Savannah

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Atlanta NAPL Project

TestAmerica Job ID: 680-106703-1

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 680-356904/1-A
Matrix: Waste
Analysis Batch: 357727

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 356904

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Halogens	200	U	200	200	mg/Kg		11/04/14 14:24	11/04/14 16:16	1

Lab Sample ID: LCS 680-356904/2-A
Matrix: Waste
Analysis Batch: 357727

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 356904

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Halogens	9840	9780		mg/Kg		99	70 - 130

Lab Sample ID: 680-106703-1 MS
Matrix: Waste
Analysis Batch: 357727

Client Sample ID: C3 Product (102814)
Prep Type: Total/NA
Prep Batch: 356904

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Halogens	25000		1950	26000	4	mg/Kg		63	70 - 130

Lab Sample ID: 680-106703-1 MSD
Matrix: Waste
Analysis Batch: 357727

Client Sample ID: C3 Product (102814)
Prep Type: Total/NA
Prep Batch: 356904

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Halogens	25000		1930	26700	4	mg/Kg		102	70 - 130	3	30

Lab Sample ID: 680-106703-1 DU
Matrix: Waste
Analysis Batch: 357727

Client Sample ID: C3 Product (102814)
Prep Type: Total/NA
Prep Batch: 356904

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Halogens	25000		23900		mg/Kg		4	30

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 680-356242/1-A
Matrix: Waste
Analysis Batch: 356526

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 356242

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.43	U	0.43	0.43	mg/L		10/31/14 08:24	10/31/14 21:46	1
Arsenic	0.87	U	0.87	0.87	mg/L		10/31/14 08:24	10/31/14 21:46	1
Barium	0.43	U	0.43	0.43	mg/L		10/31/14 08:24	10/31/14 21:46	1
Cadmium	0.22	U	0.22	0.22	mg/L		10/31/14 08:24	10/31/14 21:46	1
Chromium	0.43	U	0.43	0.43	mg/L		10/31/14 08:24	10/31/14 21:46	1
Lead	0.43	U	0.43	0.43	mg/L		10/31/14 08:24	10/31/14 21:46	1
Selenium	0.87	U	0.87	0.87	mg/L		10/31/14 08:24	10/31/14 21:46	1

TestAmerica Savannah

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Atlanta NAPL Project

TestAmerica Job ID: 680-106703-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 680-356242/2-A

Matrix: Waste

Analysis Batch: 356526

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 356242

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	4.20	4.11		mg/L		98	80 - 120
Arsenic	8.40	8.60		mg/L		102	80 - 120
Barium	8.40	7.98		mg/L		95	80 - 120
Cadmium	4.20	4.09		mg/L		97	80 - 120
Chromium	8.40	8.45		mg/L		101	80 - 120
Lead	42.0	40.0		mg/L		95	80 - 120
Selenium	8.40	8.09		mg/L		96	80 - 120

Lab Sample ID: LB 680-355982/1-B

Matrix: Waste

Analysis Batch: 356526

Client Sample ID: Method Blank

Prep Type: TCLP

Prep Batch: 356242

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.50	U	0.50	0.50	mg/L		10/31/14 08:24	10/31/14 21:55	1
Arsenic	1.0	U	1.0	1.0	mg/L		10/31/14 08:24	10/31/14 21:55	1
Barium	0.50	U	0.50	0.50	mg/L		10/31/14 08:24	10/31/14 21:55	1
Cadmium	0.25	U	0.25	0.25	mg/L		10/31/14 08:24	10/31/14 21:55	1
Chromium	0.50	U	0.50	0.50	mg/L		10/31/14 08:24	10/31/14 21:55	1
Lead	0.50	U	0.50	0.50	mg/L		10/31/14 08:24	10/31/14 21:55	1
Selenium	1.0	U	1.0	1.0	mg/L		10/31/14 08:24	10/31/14 21:55	1

Lab Sample ID: 680-106703-1 MS

Matrix: Waste

Analysis Batch: 356526

Client Sample ID: C3 Product (102814)

Prep Type: TCLP

Prep Batch: 356242

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	0.48	U	4.76	4.48		mg/L		94	75 - 125
Arsenic	0.96	U	9.52	9.82		mg/L		103	75 - 125
Barium	0.48	U	9.52	9.30		mg/L		98	75 - 125
Cadmium	0.24	U	4.76	4.72		mg/L		99	75 - 125
Chromium	0.48	U	9.52	9.86		mg/L		104	75 - 125
Lead	0.48	U	47.6	46.2		mg/L		97	75 - 125
Selenium	0.96	U	9.52	8.93		mg/L		94	75 - 125

Lab Sample ID: 680-106703-1 MSD

Matrix: Waste

Analysis Batch: 356526

Client Sample ID: C3 Product (102814)

Prep Type: TCLP

Prep Batch: 356242

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Silver	0.48	U	4.81	4.96		mg/L		103	75 - 125	10	20
Arsenic	0.96	U	9.62	10.2		mg/L		106	75 - 125	3	20
Barium	0.48	U	9.62	9.81		mg/L		102	75 - 125	5	20
Cadmium	0.24	U	4.81	4.98		mg/L		104	75 - 125	5	20
Chromium	0.48	U	9.62	10.4		mg/L		108	75 - 125	5	20
Lead	0.48	U	48.1	48.9		mg/L		102	75 - 125	6	20
Selenium	0.96	U	9.62	9.36		mg/L		97	75 - 125	5	20

TestAmerica Savannah

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Atlanta NAPL Project

TestAmerica Job ID: 680-106703-1

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 680-356800/13-A
Matrix: Waste
Analysis Batch: 356898

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 356800

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.019	U	0.019	0.019	mg/L		11/04/14 09:18	11/04/14 13:36	1

Lab Sample ID: LCS 680-356800/14-A
Matrix: Waste
Analysis Batch: 356898

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 356800

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.219	0.228		mg/L		104	80 - 120

Lab Sample ID: LB 680-355982/1-F
Matrix: Waste
Analysis Batch: 356898

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 356800

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.019	U	0.019	0.019	mg/L		11/04/14 09:18	11/04/14 13:51	1

Lab Sample ID: 680-106703-1 MS
Matrix: Waste
Analysis Batch: 356898

Client Sample ID: C3 Product (102814)
Prep Type: TCLP
Prep Batch: 356800

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.018	U	0.0962	0.0924		mg/L		96	80 - 120

Lab Sample ID: 680-106703-1 MSD
Matrix: Waste
Analysis Batch: 356898

Client Sample ID: C3 Product (102814)
Prep Type: TCLP
Prep Batch: 356800

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.018	U	0.0980	0.0959		mg/L		98	80 - 120	4	20

Method: 1010A - Ignitability, Pensky-Martens Closed Cup Method

Lab Sample ID: LCS 560-109045/1
Matrix: Waste
Analysis Batch: 109045

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Flashpoint	81.0	80.00		Degrees F		99	85 - 115

Method: D240-87 - Heat of Combustion

Lab Sample ID: LCS 680-356862/1-A
Matrix: Waste
Analysis Batch: 357037

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 356862

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
BTU	5740	5620		BTU/lb		98	70 - 130

TestAmerica Savannah

QC Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Atlanta NAPL Project

TestAmerica Job ID: 680-106703-1

Method: D240-87 - Heat of Combustion (Continued)

Lab Sample ID: 680-106703-1 DU
 Matrix: Waste
 Analysis Batch: 357037

Client Sample ID: C3 Product (102814)
 Prep Type: Total/NA
 Prep Batch: 356862

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
BTU	19000		18600		BTU/lb		0.5	30

Method: D4928 - Water, Percent (Karl Fischer)

Lab Sample ID: LCS 560-109101/1
 Matrix: Waste
 Analysis Batch: 109101

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Percent Water	0.100	0.0900		%		90	80 - 120

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Atlanta NAPL Project

TestAmerica Job ID: 680-106703-1

GC/MS VOA

Analysis Batch: 356129

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-106703-1	C3 Product (102814)	Total/NA	Waste	8260B	356201
LCS 680-356129/3	Lab Control Sample	Total/NA	Waste	8260B	
LCSD 680-356129/8	Lab Control Sample Dup	Total/NA	Waste	8260B	
MB 680-356129/10	Method Blank	Total/NA	Waste	8260B	

Prep Batch: 356201

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-106703-1	C3 Product (102814)	Total/NA	Waste	5030B	

Leach Batch: 356227

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-106703-1	C3 Product (102814)	TCLP	Waste	1311	

Analysis Batch: 356978

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-106703-1	C3 Product (102814)	TCLP	Waste	8260B	356227
LCS 680-356978/4	Lab Control Sample	Total/NA	Waste	8260B	
LCSD 680-356978/5	Lab Control Sample Dup	Total/NA	Waste	8260B	
MB 680-356978/9	Method Blank	Total/NA	Waste	8260B	

HPLC/IC

Prep Batch: 356904

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-106703-1	C3 Product (102814)	Total/NA	Waste	5050	
680-106703-1 DU	C3 Product (102814)	Total/NA	Waste	5050	
680-106703-1 MS	C3 Product (102814)	Total/NA	Waste	5050	
680-106703-1 MSD	C3 Product (102814)	Total/NA	Waste	5050	
LCS 680-356904/2-A	Lab Control Sample	Total/NA	Waste	5050	
MB 680-356904/1-A	Method Blank	Total/NA	Waste	5050	

Analysis Batch: 357727

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-106703-1	C3 Product (102814)	Total/NA	Waste	9056A	356904
680-106703-1 DU	C3 Product (102814)	Total/NA	Waste	9056A	356904
680-106703-1 MS	C3 Product (102814)	Total/NA	Waste	9056A	356904
680-106703-1 MSD	C3 Product (102814)	Total/NA	Waste	9056A	356904
LCS 680-356904/2-A	Lab Control Sample	Total/NA	Waste	9056A	356904
MB 680-356904/1-A	Method Blank	Total/NA	Waste	9056A	356904

Metals

Leach Batch: 355982

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-106703-1	C3 Product (102814)	TCLP	Waste	1311	
680-106703-1 MS	C3 Product (102814)	TCLP	Waste	1311	
680-106703-1 MSD	C3 Product (102814)	TCLP	Waste	1311	
LB 680-355982/1-B	Method Blank	TCLP	Waste	1311	
LB 680-355982/1-F	Method Blank	TCLP	Waste	1311	

TestAmerica Savannah

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Atlanta NAPL Project

TestAmerica Job ID: 680-106703-1

Metals (Continued)

Prep Batch: 356242

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-106703-1	C3 Product (102814)	TCLP	Waste	3050B	355982
680-106703-1 MS	C3 Product (102814)	TCLP	Waste	3050B	355982
680-106703-1 MSD	C3 Product (102814)	TCLP	Waste	3050B	355982
LB 680-355982/1-B	Method Blank	TCLP	Waste	3050B	355982
LCS 680-356242/2-A	Lab Control Sample	Total/NA	Waste	3050B	
MB 680-356242/1-A	Method Blank	Total/NA	Waste	3050B	

Analysis Batch: 356526

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-106703-1	C3 Product (102814)	TCLP	Waste	6010C	356242
680-106703-1 MS	C3 Product (102814)	TCLP	Waste	6010C	356242
680-106703-1 MSD	C3 Product (102814)	TCLP	Waste	6010C	356242
LB 680-355982/1-B	Method Blank	TCLP	Waste	6010C	356242
LCS 680-356242/2-A	Lab Control Sample	Total/NA	Waste	6010C	356242
MB 680-356242/1-A	Method Blank	Total/NA	Waste	6010C	356242

Prep Batch: 356800

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-106703-1	C3 Product (102814)	TCLP	Waste	7471A	355982
680-106703-1 MS	C3 Product (102814)	TCLP	Waste	7471A	355982
680-106703-1 MSD	C3 Product (102814)	TCLP	Waste	7471A	355982
LB 680-355982/1-F	Method Blank	TCLP	Waste	7471A	355982
LCS 680-356800/14-A	Lab Control Sample	Total/NA	Waste	7471A	
MB 680-356800/13-A	Method Blank	Total/NA	Waste	7471A	

Analysis Batch: 356898

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-106703-1	C3 Product (102814)	TCLP	Waste	7471A	356800
680-106703-1 MS	C3 Product (102814)	TCLP	Waste	7471A	356800
680-106703-1 MSD	C3 Product (102814)	TCLP	Waste	7471A	356800
LB 680-355982/1-F	Method Blank	TCLP	Waste	7471A	356800
LCS 680-356800/14-A	Lab Control Sample	Total/NA	Waste	7471A	356800
MB 680-356800/13-A	Method Blank	Total/NA	Waste	7471A	356800

General Chemistry

Analysis Batch: 109045

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-106703-1	C3 Product (102814)	Total/NA	Waste	1010A	
LCS 560-109045/1	Lab Control Sample	Total/NA	Waste	1010A	

Analysis Batch: 109100

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-106703-1	C3 Product (102814)	Total/NA	Waste	D1796	

Analysis Batch: 109101

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-106703-1	C3 Product (102814)	Total/NA	Waste	D4928	
LCS 560-109101/1	Lab Control Sample	Total/NA	Waste	D4928	

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Atlanta NAPL Project

TestAmerica Job ID: 680-106703-1

General Chemistry (Continued)

Prep Batch: 356862

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-106703-1	C3 Product (102814)	Total/NA	Waste	D240-87	
680-106703-1 DU	C3 Product (102814)	Total/NA	Waste	D240-87	
LCS 680-356862/1-A	Lab Control Sample	Total/NA	Waste	D240-87	

Analysis Batch: 357037

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-106703-1	C3 Product (102814)	Total/NA	Waste	D240-87	356862
680-106703-1 DU	C3 Product (102814)	Total/NA	Waste	D240-87	356862
LCS 680-356862/1-A	Lab Control Sample	Total/NA	Waste	D240-87	356862

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Atlanta NAPL Project

TestAmerica Job ID: 680-106703-1

Client Sample ID: C3 Product (102814)

Lab Sample ID: 680-106703-1

Date Collected: 10/28/14 11:32

Matrix: Waste

Date Received: 10/29/14 09:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			1.0 g	1.0 mL	356227	10/30/14 20:59	ALC	TAL SAV
TCLP	Analysis	8260B		100000	5 mL	5 mL	356978	11/05/14 17:14	TF1	TAL SAV
Instrument ID: CMSAC										
Total/NA	Prep	5030B			1.01 g	10 mL	356201	10/30/14 16:18	DJK	TAL SAV
Total/NA	Analysis	8260B		100000	1.01 g	10 mL	356129	10/30/14 18:17	DJK	TAL SAV
Instrument ID: CMSL										
Total/NA	Prep	5050			000.5071 g	100 mL	356904	11/04/14 14:24	JRJ	TAL SAV
Total/NA	Analysis	9056A		4	000.5071 g	100 mL	357727	11/08/14 00:52	DAS	TAL SAV
Instrument ID: CICL										
TCLP	Leach	1311			1.0 g	1.0 mL	355982	10/29/14 20:14	JDS	TAL SAV
TCLP	Prep	3050B			1.04 g	50 mL	356242	10/31/14 08:24	CRW	TAL SAV
TCLP	Analysis	6010C		1	1.04 g	50 mL	356526	10/31/14 21:59	BCB	TAL SAV
Instrument ID: ICPE										
TCLP	Leach	1311			1.0 g	1.0 mL	355982	10/29/14 20:14	JDS	TAL SAV
TCLP	Prep	7471A			0.55 g	50 mL	356800	11/04/14 09:18	JKL	TAL SAV
TCLP	Analysis	7471A		1	0.55 g	50 mL	356898	11/04/14 13:54	JKL	TAL SAV
Instrument ID: LEEMAN2										
Total/NA	Analysis	1010A		1			109045	11/03/14 15:30	OV56	TAL CC
Instrument ID: NOEQUIP										
Total/NA	Analysis	D1796		1	50 mL	50 mL	109100	11/04/14 14:00	EDR	TAL CC
Instrument ID: NOEQUIP										
Total/NA	Analysis	D240-87		1	000.5098 g	000.5098 g	357037	11/04/14 11:27	JRJ	TAL SAV
Instrument ID: NOEQUIP										
Total/NA	Prep	D240-87			000.5098 g	000.5098 g	356862	11/04/14 11:27	JRJ	TAL SAV
Total/NA	Analysis	D4928		1			109101	11/04/14 16:20	EDR	TAL CC
Instrument ID: NOEQUIP										

Laboratory References:

TAL CC = TestAmerica Corpus Christi, 1733 N. Padre Island Drive, Corpus Christi, TX 78408, TEL (361)289-2673

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Certification Summary

Client: ARCADIS U.S., Inc.
Project/Site: Atlanta NAPL Project

TestAmerica Job ID: 680-106703-1

Laboratory: TestAmerica Savannah

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
	AFCEE		SAVLAB	
A2LA	DoD ELAP		399.01	02-28-15
A2LA	ISO/IEC 17025		399.01	02-28-15
Alabama	State Program	4	41450	06-30-15
Arkansas DEQ	State Program	6	88-0692	01-31-15
California	NELAP	9	3217CA	07-31-14 *
Colorado	State Program	8	N/A	12-31-14
Connecticut	State Program	1	PH-0161	03-31-15
Florida	NELAP	4	E87052	06-30-15
GA Dept. of Agriculture	State Program	4	N/A	06-12-17
Georgia	State Program	4	N/A	06-30-15
Georgia	State Program	4	803	06-30-15
Guam	State Program	9	09-005r	04-16-15
Hawaii	State Program	9	N/A	06-30-15
Illinois	NELAP	5	200022	11-30-14 *
Indiana	State Program	5	N/A	06-30-15
Iowa	State Program	7	353	07-01-15
Kentucky (DW)	State Program	4	90084	12-31-14
Kentucky (UST)	State Program	4	18	06-30-15
Louisiana	NELAP	6	30690	06-30-15
Louisiana (DW)	NELAP	6	LA140023	12-31-14
Maine	State Program	1	GA00006	09-24-16
Maryland	State Program	3	250	12-31-14
Massachusetts	State Program	1	M-GA006	06-30-15
Michigan	State Program	5	9925	06-30-15
Mississippi	State Program	4	N/A	06-30-15
Montana	State Program	8	CERT0081	01-01-15
Nebraska	State Program	7	TestAmerica-Savannah	06-30-15
New Jersey	NELAP	2	GA769	06-30-15
New Mexico	State Program	6	N/A	06-30-15
New York	NELAP	2	10842	03-31-15
North Carolina (DW)	State Program	4	13701	07-31-15
North Carolina (WW/SW)	State Program	4	269	12-31-14
Oklahoma	State Program	6	9984	08-31-15
Pennsylvania	NELAP	3	68-00474	06-30-15
Puerto Rico	State Program	2	GA00006	12-31-14
South Carolina	State Program	4	98001	06-30-15
Tennessee	State Program	4	TN02961	06-30-15
Texas	NELAP	6	T104704185-08-TX	11-30-14 *
USDA	Federal		SAV 3-04	06-11-17
Virginia	NELAP	3	460161	06-14-15
Washington	State Program	10	C805	06-10-15
West Virginia (DW)	State Program	3	9950C	12-31-14
West Virginia DEP	State Program	3	94	06-30-15
Wisconsin	State Program	5	999819810	08-31-15
Wyoming	State Program	8	8TMS-L	06-30-15

Laboratory: TestAmerica Corpus Christi

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

* Certification renewal pending - certification considered valid.

Certification Summary

Client: ARCADIS U.S., Inc.
Project/Site: Atlanta NAPL Project

TestAmerica Job ID: 680-106703-1

Laboratory: TestAmerica Corpus Christi (Continued)

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Kansas	NELAP	7	E-10362	01-31-15
Oklahoma	State Program	6	9968	08-31-15
Texas	NELAP	6	T104704210	03-31-15

1

2

3

4

5

6

7

8

9

10

11

12

Method Summary

Client: ARCADIS U.S., Inc.
Project/Site: Atlanta NAPL Project

TestAmerica Job ID: 680-106703-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL SAV
9056A	Anions, Ion Chromatography	SW846	TAL SAV
6010C	Metals (ICP)	SW846	TAL SAV
7471A	Mercury (CVAA)	SW846	TAL SAV
1010A	Ignitability, Pensky-Martens Closed Cup Method	SW846	TAL CC
D1796	Water and Sediment in Fuel Oils	ASTM	TAL CC
D240-87	Heat of Combustion	ASTM	TAL SAV
D4928	Water, Percent (Karl Fischer)	ASTM	TAL CC

Protocol References:

ASTM = ASTM International

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CC = TestAmerica Corpus Christi, 1733 N. Padre Island Drive, Corpus Christi, TX 78408, TEL (361)289-2673

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858



Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 680-106703-1

Login Number: 106703

List Source: TestAmerica Savannah

List Number: 1

Creator: White, Menica R

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 680-106703-1

Login Number: 106703

List Number: 2

Creator: Rood, Vivian R

List Source: TestAmerica Corpus Christi

List Creation: 10/30/14 01:49 PM

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.2°C IR 4
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-106703-2
Client Project/Site: Atlanta NAPL Project

For:
ARCADIS U.S., Inc.
8201 Peters Road, Suite 3400
Plantation, Florida 33323

Attn: Mr. Gregory Sitomer



Authorized for release by:
2/9/2015 3:17:37 PM

Amy Atkins, Project Manager II
(813)885-7427
amy.atkins@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

10

11

12

Definitions/Glossary

Client: ARCADIS U.S., Inc.
Project/Site: Atlanta NAPL Project

TestAmerica Job ID: 680-106703-2

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Sample Summary

Client: ARCADIS U.S., Inc.
Project/Site: Atlanta NAPL Project

TestAmerica Job ID: 680-106703-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-106703-1	C3 Product (102814)	Waste	10/28/14 11:32	10/29/14 09:41

1

2

3

4

5

6

7

8

9

10

11

12

Case Narrative

Client: ARCADIS U.S., Inc.
Project/Site: Atlanta NAPL Project

TestAmerica Job ID: 680-106703-2

Job ID: 680-106703-2

Laboratory: TestAmerica Savannah

Narrative

**Job Narrative
680-106703-2**

Comments

No additional comments.

Receipt

The sample was received on 10/29/2014 9:41 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.6° C.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.



Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Atlanta NAPL Project

TestAmerica Job ID: 680-106703-2

Client Sample ID: C3 Product (102814)

Lab Sample ID: 680-106703-1

Date Collected: 10/28/14 11:32

Matrix: Waste

Date Received: 10/29/14 09:41

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Specific Gravity	0.7480				NONE			02/08/15 14:38	1

1

2

3

4

5

6

7

8

9

10

11

12

QC Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Atlanta NAPL Project

TestAmerica Job ID: 680-106703-2

Method: SM 2710F - Specific Gravity, Density

Lab Sample ID: MB 680-370060/1
 Matrix: Waste
 Analysis Batch: 370060

Client Sample ID: Method Blank
 Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Specific Gravity	0.9980				NONE			02/08/15 14:38	1

Lab Sample ID: 680-106703-1 DU
 Matrix: Waste
 Analysis Batch: 370060

Client Sample ID: C3 Product (102814)
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Specific Gravity	0.7480		0.7570		NONE		1	20



QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Atlanta NAPL Project

TestAmerica Job ID: 680-106703-2

General Chemistry

Analysis Batch: 370060

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-106703-1	C3 Product (102814)	Total/NA	Waste	SM 2710F	
680-106703-1 DU	C3 Product (102814)	Total/NA	Waste	SM 2710F	
MB 680-370060/1	Method Blank	Total/NA	Waste	SM 2710F	

1

2

3

4

5

6

7

8

9

10

11

12

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Atlanta NAPL Project

TestAmerica Job ID: 680-106703-2

Client Sample ID: C3 Product (102814)

Lab Sample ID: 680-106703-1

Date Collected: 10/28/14 11:32

Matrix: Waste

Date Received: 10/29/14 09:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2710F		1		18.7934 g	370060	02/08/15 14:38	LBH	TAL SAV

Instrument ID: NOEQUIP

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858



Certification Summary

Client: ARCADIS U.S., Inc.
 Project/Site: Atlanta NAPL Project

TestAmerica Job ID: 680-106703-2

Laboratory: TestAmerica Savannah

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
	AFCEE		SAVLAB	
A2LA	DoD ELAP		399.01	02-28-17
A2LA	ISO/IEC 17025		399.01	02-28-17
Alabama	State Program	4	41450	06-30-15
California	State Program	9	2939	07-31-15
Colorado	State Program	8	N/A	12-31-15
Connecticut	State Program	1	PH-0161	03-31-15
Florida	NELAP	4	E87052	06-30-15
GA Dept. of Agriculture	State Program	4	N/A	06-12-17
Georgia	State Program	4	N/A	06-30-15
Georgia	State Program	4	803	06-30-15
Guam	State Program	9	09-005r	04-16-15
Hawaii	State Program	9	N/A	06-30-15
Illinois	NELAP	5	200022	11-30-15
Indiana	State Program	5	N/A	06-30-15
Iowa	State Program	7	353	07-01-15
Kentucky (DW)	State Program	4	90084	12-31-15
Kentucky (UST)	State Program	4	18	06-30-15
Kentucky (WW)	State Program	4	90084	12-31-15
Louisiana	NELAP	6	30690	06-30-15
Louisiana (DW)	NELAP	6	LA150014	12-31-15
Maine	State Program	1	GA00006	09-24-16
Maryland	State Program	3	250	12-31-15
Massachusetts	State Program	1	M-GA006	06-30-15
Michigan	State Program	5	9925	06-30-15
Mississippi	State Program	4	N/A	06-30-15
Montana	State Program	8	CERT0081	12-31-15
Nebraska	State Program	7	TestAmerica-Savannah	06-30-15
New Jersey	NELAP	2	GA769	06-30-15
New Mexico	State Program	6	N/A	06-30-15
New York	NELAP	2	10842	03-31-15
North Carolina (DW)	State Program	4	13701	07-31-15
North Carolina (WW/SW)	State Program	4	269	12-31-15
Oklahoma	State Program	6	9984	08-31-15
Pennsylvania	NELAP	3	68-00474	06-30-15
Puerto Rico	State Program	2	GA00006	12-31-15
South Carolina	State Program	4	98001	06-30-15
Tennessee	State Program	4	TN02961	06-30-15
Texas	NELAP	6	T104704185-14-7	11-30-15
USDA	Federal		SAV 3-04	06-11-17
Virginia	NELAP	3	460161	06-14-15
Washington	State Program	10	C805	06-10-15
West Virginia (DW)	State Program	3	9950C	12-31-15
West Virginia DEP	State Program	3	094	06-30-15
Wisconsin	State Program	5	999819810	08-31-15
Wyoming	State Program	8	8TMS-L	06-30-15

Method Summary

Client: ARCADIS U.S., Inc.
Project/Site: Atlanta NAPL Project

TestAmerica Job ID: 680-106703-2

Method	Method Description	Protocol	Laboratory
SM 2710F	Specific Gravity, Density	SM	TAL SAV

Protocol References:

SM = "Standard Methods For The Examination Of Water And Wastewater",

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858



Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 680-106703-2

Login Number: 106703

List Source: TestAmerica Savannah

List Number: 1

Creator: White, Menica R

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





ANALYTICAL ENVIRONMENTAL SERVICES, INC.

October 23, 2014

Greg Sitomer
Arcadis
1000 Cobb Place Blvd., Bldg. 500-A
Kennesaw GA 30144

TEL: (770) 431-8666
FAX: (770) 435-2666

RE: Lafarge Paint Marking

Dear Greg Sitomer:

Order No: 1410J18

Analytical Environmental Services, Inc. received 2 samples on 10/21/2014 12:50:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/14-06/30/15.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/15.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Chantelle Kanhai
Project Manager

Analytical Results

for

Arcadis

Date: 23-Oct-14

Workorder: 1410J18

Client Reference: Lafarge Paint Marking

Analyte	Concentration					Limit of Detection (ug)	Qual	Date Analyzed /Analyst	Test Method
	Total (ug)	Front (ug)	Back (ug)	(mg/m3)	(ppm)				
Client ID: INFLUENT C3 (102114)	Lab ID: 1410J18-001A		Date Sampled: 10/21/2014		Media: Tedlar Bag	Air Vol.(L): 1			
1,1,1-Trichloroethane	<10	<10	<10	<10	<1.8	10	10/22/2014	JMA	EPA18
1,1-Dichloroethene	<10	<10	<10	<10	<2.5	10	10/22/2014	JMA	EPA18
2-Butanone	<10	<10	<10	<10	<3.4	10	10/22/2014	JMA	EPA18
4-Methyl-2-pentanone	<10	<10	<10	<10	<2.4	10	10/22/2014	JMA	EPA18
Acetone	<10	<10	<10	<10	<4.2	10	10/22/2014	JMA	EPA18
Benzene	50	49.734	<10	50	16	10	10/22/2014	JMA	EPA18
Carbon tetrachloride	<10	<10	<10	<10	<1.6	10	10/22/2014	JMA	EPA18
Chloroform	<10	<10	<10	<10	<2.0	10	10/22/2014	JMA	EPA18
cis-1,2-Dichloroethene	260	263.357	<10	260	66	10	10/22/2014	JMA	EPA18
Diethyl ether	<10	<10	<10	<10	<3.3	10	10/22/2014	JMA	EPA18
Ethylbenzene	37	37.117	<10	37	8.6	10	10/22/2014	JMA	EPA18
Freon 141B	<10	<10	<10	<10	<2.1	10	10/22/2014	JMA	EPA18
m,p-Xylene	160	164.087	<20	160	38	20	10/22/2014	JMA	EPA18
Methyl tert-butyl ether	<10	<10	<10	<10	<2.8	10	10/22/2014	JMA	EPA18
Methylene chloride	<10	<10	<10	<10	<2.9	10	10/22/2014	JMA	EPA18
n-Heptane	360	357.357	<10	360	87	10	10/22/2014	JMA	EPA18
n-Hexane	1600	1632.7	<10	1600	460	10	10/22/2014	JMA	EPA18
Naphthalene	<10	<10	<10	<10	<1.9	10	10/22/2014	JMA	EPA18
o-Xylene	36	35.799	<10	36	8.2	10	10/22/2014	JMA	EPA18
Tetrachloroethene	<10	<10	<10	<10	<1.5	10	10/22/2014	JMA	EPA18
Toluene	700	703.642	<10	700	190	10	10/22/2014	JMA	EPA18
trans-1,2-Dichloroethene	<10	<10	<10	<10	<2.5	10	10/22/2014	JMA	EPA18
Trichloroethene	290	292.66	<10	290	54	10	10/22/2014	JMA	EPA18
TRPH (Based on Benzene)	7600	7608.4	<100	7600	2400	100	10/22/2014	JMA	EPA18
Vinyl chloride	<10	<10	<10	<10	<3.9	10	10/22/2014	JMA	EPA18

Client ID: EFFLUENT C3 (102114)	Lab ID: 1410J18-002A		Date Sampled: 10/21/2014		Media: Tedlar Bag	Air Vol.(L): 1			
1,1,1-Trichloroethane	<10	<10	<10	<10	<1.8	10	10/22/2014	JMA	EPA18
1,1-Dichloroethene	<10	<10	<10	<10	<2.5	10	10/22/2014	JMA	EPA18
2-Butanone	<10	<10	<10	<10	<3.4	10	10/22/2014	JMA	EPA18
4-Methyl-2-pentanone	<10	<10	<10	<10	<2.4	10	10/22/2014	JMA	EPA18
Acetone	<10	<10	<10	<10	<4.2	10	10/22/2014	JMA	EPA18
Benzene	<10	<10	<10	<10	<3.1	10	10/22/2014	JMA	EPA18
Carbon tetrachloride	<10	<10	<10	<10	<1.6	10	10/22/2014	JMA	EPA18
Chloroform	<10	<10	<10	<10	<2.0	10	10/22/2014	JMA	EPA18
cis-1,2-Dichloroethene	<10	<10	<10	<10	<2.5	10	10/22/2014	JMA	EPA18
Diethyl ether	<10	<10	<10	<10	<3.3	10	10/22/2014	JMA	EPA18
Ethylbenzene	<10	<10	<10	<10	<2.3	10	10/22/2014	JMA	EPA18
Freon 141B	<10	<10	<10	<10	<2.1	10	10/22/2014	JMA	EPA18

Qualifiers:

< Less than the indicated limit of detection (LOD)

H Holding time for preparation or analysis

B Analyte detected in the associated Method Blank

(a) Analysis indicates possible breakthrough; back section result is greater than

10 % of the front section result.

**Analytical Results
for**

Arcadis

Date: 23-Oct-14

Workorder: 1410J18

Client Reference: Lafarge Paint Marking

Analyte	Concentration					Limit of Detection (ug)	Qual	Date Analyzed	/Analyst	Test Method
	Total (ug)	Front (ug)	Back (ug)	(mg/m3)	(ppm)					
m,p-Xylene	<20	<20	<20	<20	<4.6	20		10/22/2014	JMA	EPA18
Methyl tert-butyl ether	<10	<10	<10	<10	<2.8	10		10/22/2014	JMA	EPA18
Methylene chloride	<10	<10	<10	<10	<2.9	10		10/22/2014	JMA	EPA18
n-Heptane	<10	<10	<10	<10	<2.4	10		10/22/2014	JMA	EPA18
n-Hexane	<10	<10	<10	<10	<2.8	10		10/22/2014	JMA	EPA18
Naphthalene	<10	<10	<10	<10	<1.9	10		10/22/2014	JMA	EPA18
o-Xylene	<10	<10	<10	<10	<2.3	10		10/22/2014	JMA	EPA18
Tetrachloroethene	<10	<10	<10	<10	<1.5	10		10/22/2014	JMA	EPA18
Toluene	<10	<10	<10	<10	<2.6	10		10/22/2014	JMA	EPA18
trans-1,2-Dichloroethene	<10	<10	<10	<10	<2.5	10		10/22/2014	JMA	EPA18
Trichloroethene	<10	<10	<10	<10	<1.9	10		10/22/2014	JMA	EPA18
TRPH (Based on Benzene)	<100	<100	<100	<100	<31	100		10/22/2014	JMA	EPA18
Vinyl chloride	<10	<10	<10	<10	<3.9	10		10/22/2014	JMA	EPA18

Qualifiers:

< Less than the indicated limit of detection (LOD)

H Holding time for preparation or analysis

B Analyte detected in the associated Method Blank

(a) Analysis indicates possible breakthrough; back section result is greater than

10 % of the front section result.

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Arcadis

Work Order Number 1410JK8

Checklist completed by [Signature] 10/21/14
Signature Date

Carrier name: FedEx UPS Courier Client US Mail Other

Shipping container/cooler in good condition? Yes No Not Present
Custody seals intact on shipping container/cooler? Yes No Not Present
Custody seals intact on sample bottles? Yes No Not Present
Container/Temp Blank temperature in compliance? SM ~~(0°-6°C)~~ Yes No

Cooler #1 amb. Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present? Yes No
Chain of custody signed when relinquished and received? Yes No
Chain of custody agrees with sample labels? Yes No
Samples in proper container/bottle? Yes No
Sample containers intact? Yes No
Sufficient sample volume for indicated test? Yes No
All samples received within holding time? Yes No
Was TAT marked on the COC? Yes No
Proceed with Standard TAT as per project history? Yes No Not Applicable
Water - VOA vials have zero headspace? No VOA vials submitted Yes No
Water - pH acceptable upon receipt? Yes No Not Applicable

Adjusted? _____ Checked by _____
Sample Condition: Good Other(Explain) _____
(For diffusive samples or AIHA lead) Is a known blank included? Yes No

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

Client: Arcadis
Project: Lafarge Paint Marking
Lab Order: 1410J18

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1410J18-001A	INFLUENT C3 (102114)	10/21/2014 11:35:00AM	Air	Aromatic Volatiles in Air		10/21/2014	10/22/2014
1410J18-001A	INFLUENT C3 (102114)	10/21/2014 11:35:00AM	Air	Chlorinated Volatiles in Air		10/21/2014	10/22/2014
1410J18-001A	INFLUENT C3 (102114)	10/21/2014 11:35:00AM	Air	Volatile Hydrocarbons in Air		10/21/2014	10/22/2014
1410J18-002A	EFFLUENT C3 (102114)	10/21/2014 11:41:00AM	Air	Aromatic Volatiles in Air		10/21/2014	10/22/2014
1410J18-002A	EFFLUENT C3 (102114)	10/21/2014 11:41:00AM	Air	Chlorinated Volatiles in Air		10/21/2014	10/22/2014
1410J18-002A	EFFLUENT C3 (102114)	10/21/2014 11:41:00AM	Air	Volatile Hydrocarbons in Air		10/21/2014	10/22/2014

Client: Arcadis
Project Name: Lafarge Paint Marking
Workorder: 1410J18

ANALYTICAL QC SUMMARY REPORT

BatchID: 197993

Sample ID: MB-197993	Client ID:	Units: ug, Total	Prep Date: 10/21/2014	Run No: 278337							
SampleType: MBLK	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 197993	Analysis Date: 10/22/2014	Seq No: 5883595							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	BRL	10									
1,1-Dichloroethene	BRL	10									
Carbon tetrachloride	BRL	10									
Chloroform	BRL	10									
cis-1,2-Dichloroethene	BRL	10									
Freon 141B	BRL	10									
Methylene chloride	BRL	10									
Tetrachloroethene	BRL	10									
trans-1,2-Dichloroethene	BRL	10									
Trichloroethene	BRL	10									
Vinyl chloride	BRL	10									

Sample ID: MB-197993	Client ID:	Units: ug, Total	Prep Date: 10/21/2014	Run No: 278338							
SampleType: MBLK	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 197993	Analysis Date: 10/22/2014	Seq No: 5883602							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2-Butanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	10									
Diethyl ether	BRL	10									
n-Heptane	BRL	10									
n-Hexane	BRL	10									

Sample ID: MB-197993	Client ID:	Units: ug, Total	Prep Date: 10/21/2014	Run No: 278339							
SampleType: MBLK	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 197993	Analysis Date: 10/22/2014	Seq No: 5883603							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene	BRL	10									
---------	-----	----	--	--	--	--	--	--	--	--	--

Qualifiers:

> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	

Client: Arcadis
Project Name: Lafarge Paint Marking
Workorder: 1410J18

ANALYTICAL QC SUMMARY REPORT

BatchID: 197993

Sample ID: MB-197993	Client ID:	Units: ug, Total	Prep Date: 10/21/2014	Run No: 278339							
SampleType: MBLK	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 197993	Analysis Date: 10/22/2014	Seq No: 5883603							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethylbenzene
m,p-Xylene
Methyl tert-butyl ether
Naphthalene
o-Xylene
Toluene
TRPH (Based on Benzene)

BRL
BRL
BRL
BRL
BRL
BRL
BRL

10
20
10
10
10
10
100

Sample ID: LCS-197993	Client ID:	Units: ug, Total	Prep Date: 10/21/2014	Run No: 278337							
SampleType: LCS	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 197993	Analysis Date: 10/22/2014	Seq No: 5883780							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane
Carbon tetrachloride
Chloroform
Methylene chloride
Tetrachloroethene
Trichloroethene

103.5
105.3
100.7
101.6
101.8
105.8

10
10
10
10
10
10

100.0
100.0
100.0
100.0
100.0
100.0

104
105
101
102
102
106

85
85
83.2
85
85
85

120
126
120
126
118
122

Sample ID: LCS-197993	Client ID:	Units: ug, Total	Prep Date: 10/21/2014	Run No: 278338							
SampleType: LCS	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 197993	Analysis Date: 10/22/2014	Seq No: 5883782							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2-Butanone
4-Methyl-2-pentanone
Acetone
Diethyl ether
n-Heptane

88.58
94.82
77.58
98.78
104.2

10
10
10
10
10

100.0
100.0
100.0
100.0
100.0

88.6
94.8
77.6
98.8
104

74.2
81.5
70.1
79.9
87

120
120
120
120
121

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	

Client: Arcadis
Project Name: Lafarge Paint Marking
Workorder: 1410J18

ANALYTICAL QC SUMMARY REPORT

BatchID: 197993

Sample ID: LCS-197993	Client ID:	Units: ug, Total	Prep Date: 10/21/2014	Run No: 278338							
SampleType: LCS	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 197993	Analysis Date: 10/22/2014	Seq No: 5883782							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

n-Hexane 106.1 10 100.0 106 87.1 123

Sample ID: LCS-197993	Client ID:	Units: ug, Total	Prep Date: 10/21/2014	Run No: 278339							
SampleType: LCS	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 197993	Analysis Date: 10/22/2014	Seq No: 5883786							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene 103.8 10 100.0 104 76 123
 Ethylbenzene 105.0 10 100.0 105 80.2 124
 m,p-Xylene 207.1 20 200.0 104 78 123
 Methyl tert-butyl ether 85.63 10 100.0 85.6 71 120
 Naphthalene 44.74 10 100.0 44.7 34.4 100
 o-Xylene 98.56 10 100.0 98.6 78 118
 Toluene 102.6 10 100.0 103 78.3 121

Sample ID: LCS-197993-2	Client ID:	Units: ug, Total	Prep Date: 10/21/2014	Run No: 278337							
SampleType: LCS	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 197993	Analysis Date: 10/22/2014	Seq No: 5884234							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene 98.23 10 100.0 98.2 83.6 119
 cis-1,2-Dichloroethene 102.7 10 100.0 103 84.2 123
 trans-1,2-Dichloroethene 103.0 10 100.0 103 85 120

Sample ID: LCS-197993-3	Client ID:	Units: ug, Total	Prep Date: 10/21/2014	Run No: 278337							
SampleType: LCS	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 197993	Analysis Date: 10/22/2014	Seq No: 5884239							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Vinyl chloride 20.98 10 25.00 83.9 60.4 121

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Arcadis
Project Name: Lafarge Paint Marking
Workorder: 1410J18

ANALYTICAL QC SUMMARY REPORT

BatchID: 197993

Sample ID: LCS D-197993	Client ID:	Units: ug, Total	Prep Date: 10/21/2014	Run No: 278337							
SampleType: LCS D	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 197993	Analysis Date: 10/22/2014	Seq No: 5884055							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	103.4	10	100.0		103	85	120	103.5	0.159	15	
Carbon tetrachloride	108.4	10	100.0		108	85	126	105.3	2.85	15	
Chloroform	100.3	10	100.0		100	83.2	120	100.7	0.379	15	
Methylene chloride	99.92	10	100.0		99.9	85	126	101.6	1.62	15	
Tetrachloroethene	103.2	10	100.0		103	85	118	101.8	1.39	15	
Trichloroethene	105.8	10	100.0		106	85	122	105.8	0.025	15	

Sample ID: LCS D-197993	Client ID:	Units: ug, Total	Prep Date: 10/21/2014	Run No: 278338							
SampleType: LCS D	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 197993	Analysis Date: 10/22/2014	Seq No: 5884248							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2-Butanone	88.36	10	100.0		88.4	74.2	120	88.58	0.253	15	
4-Methyl-2-pentanone	95.12	10	100.0		95.1	81.5	120	94.82	0.317	15	
Acetone	76.60	10	100.0		76.6	70.1	120	77.58	1.27	15	
Diethyl ether	97.71	10	100.0		97.7	79.9	120	98.78	1.08	15	
n-Heptane	104.2	10	100.0		104	87	121	104.2	0.012	15	
n-Hexane	105.3	10	100.0		105	87.1	123	106.1	0.783	15	

Sample ID: LCS D-197993	Client ID:	Units: ug, Total	Prep Date: 10/21/2014	Run No: 278339							
SampleType: LCS D	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 197993	Analysis Date: 10/22/2014	Seq No: 5884250							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene	103.7	10	100.0		104	76	123	103.8	0.094	15	
Ethylbenzene	105.6	10	100.0		106	80.2	124	105.0	0.536	15	
m,p-Xylene	207.9	20	200.0		104	78	123	207.1	0.391	15	
Methyl tert-butyl ether	84.42	10	100.0		84.4	71	120	85.63	1.41	15	
Naphthalene	45.47	10	100.0		45.5	34.4	100	44.74	1.63	15	
o-Xylene	99.21	10	100.0		99.2	78	118	98.56	0.665	15	

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Arcadis
Project Name: Lafarge Paint Marking
Workorder: 1410J18

ANALYTICAL QC SUMMARY REPORT

BatchID: 197993

Sample ID: LCSD-197993	Client ID:	Units: ug, Total	Prep Date: 10/21/2014	Run No: 278339							
SampleType: LCSD	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 197993	Analysis Date: 10/22/2014	Seq No: 5884250							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Toluene	102.9	10	100.0		103	78.3	121	102.6	0.298	15	
---------	-------	----	-------	--	-----	------	-----	-------	-------	----	--

Sample ID: LCSD-197993-2	Client ID:	Units: ug, Total	Prep Date: 10/21/2014	Run No: 278337							
SampleType: LCSD	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 197993	Analysis Date: 10/22/2014	Seq No: 5884237							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	97.32	10	100.0		97.3	83.6	119	98.23	0.927	15	
cis-1,2-Dichloroethene	102.6	10	100.0		103	84.2	123	102.7	0.126	15	
trans-1,2-Dichloroethene	103.2	10	100.0		103	85	120	103.0	0.266	15	

Sample ID: LCSD-197993-3	Client ID:	Units: ug, Total	Prep Date: 10/21/2014	Run No: 278337							
SampleType: LCSD	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 197993	Analysis Date: 10/22/2014	Seq No: 5884240							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Vinyl chloride	20.78	10	25.00		83.1	60.4	121	20.98	0.963	19.2	
----------------	-------	----	-------	--	------	------	-----	-------	-------	------	--

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
BRL	Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S Spike Recovery outside limits due to matrix	



October 29, 2014

Greg Sitomer
Arcadis
1000 Cobb Place Blvd., Bldg. 500-A
Kennesaw GA 30144

TEL: (770) 431-8666
FAX: (770) 435-2666

RE: Lafarge East Point

Dear Greg Sitomer:

Order No: 1410K42

Analytical Environmental Services, Inc. received 2 samples on 10/22/2014 1:40:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/14-06/30/15.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/15.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Chantelle Kanhai
Project Manager

1410K42

CHAIN OF CUSTODY FORM FOR AIR SAMPLE ANALYSIS

Client Name: Arcadis Contact: Gregory.Sitomer@arcadis-us.com Project Name/#: HT212576.0008.00001
 Address: 1000 Cobb Place Blvd Phone: 770.570.7078(6) 770.428.9009(6) Samplers Name: Ivan Jenkins / Greg Jenkins
Building 500A Fax: 770.428.4004 Sampling Date: 10-22-14
Kennesaw, GA 30144 Kevin.warner@arcadis-us.com

SAMPLE ID	SAMPLE DESCRIPTION (e.g. Locations, Name, etc)	PUMP NUMBER	TIME		FLOW RATE			VOLUME	ANALYSIS REQUESTED/REMARKS
			START	END	INITIAL	FINAL	AVG		
<u>Influent C3 21/2(102214)</u>	<u>Influent C3</u>	<u>NONE</u>			<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>1 L</u>	<u>EPA 18 Grab</u>
<u>Effluent C3 21/2(102214)</u>	<u>Effluent C3</u>	<u>NONE</u>			<u>"</u>	<u>"</u>	<u>"</u>	<u>1 L</u>	<u>EPA 18 Grab</u>

Turnaround Time: Normal (5 days): 3 Days Rush: 2 Days Rush: Next Day Rush:

Comments: _____

Relinquished By: <u>Ivan Jenkins</u>	Date/Time: <u>10/22/14 - 11:30</u>
Received By: <u>[Signature]</u>	Date/Time: <u>10.22.14 11:30</u>
Relinquished By: <u>[Signature]</u>	Date/Time: <u>10-22-14 13:40</u>
Received By: _____	Date/Time: _____

Delivered Direct to Lab: Shipped:
 Method of Shipment: Lab Currier Pickup
 Lab Recipient: Tester [Signature]
 Date: 10/22/14 13:40

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE FOLLOWING BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT.

Analytical Results

for

Arcadis

Date: 29-Oct-14

Workorder: 1410K42

Client Reference: Lafarge East Point

Analyte	Concentration					Limit of Detection (ug)	Qual	Date Analyzed /Analyst	Test Method
	Total (ug)	Front (ug)	Back (ug)	(mg/m3)	(ppm)				
Client ID: INFLUENT C3 Z1/2 (102214)	Lab ID: 1410K42-001A	Date Sampled: 10/22/2014	Media: Tedlar Bag	Air Vol.(L): 1					
1,1,1-Trichloroethane	<10	<10	<10	<10	<1.8	10	10/23/2014	JMA	EPA18
1,1-Dichloroethene	<10	<10	<10	<10	<2.5	10	10/23/2014	JMA	EPA18
2-Butanone	<10	<10	<10	<10	<3.4	10	10/23/2014	JMA	EPA18
4-Methyl-2-pentanone	<10	<10	<10	<10	<2.4	10	10/23/2014	JMA	EPA18
Acetone	<10	<10	<10	<10	<4.2	10	10/23/2014	JMA	EPA18
Benzene	28	28.16	<10	28	8.8	10	10/23/2014	JMA	EPA18
Carbon tetrachloride	<10	<10	<10	<10	<1.6	10	10/23/2014	JMA	EPA18
Chloroform	<10	<10	<10	<10	<2.0	10	10/23/2014	JMA	EPA18
cis-1,2-Dichloroethene	100	101.368	<10	100	26	10	10/23/2014	JMA	EPA18
Diethyl ether	<10	<10	<10	<10	<3.3	10	10/23/2014	JMA	EPA18
Ethylbenzene	23	22.963	<10	23	5.3	10	10/23/2014	JMA	EPA18
Freon 141B	<10	<10	<10	<10	<2.1	10	10/23/2014	JMA	EPA18
m,p-Xylene	90	89.891	<20	90	21	20	10/23/2014	JMA	EPA18
Methyl tert-butyl ether	<10	<10	<10	<10	<2.8	10	10/23/2014	JMA	EPA18
Methylene chloride	<10	<10	<10	<10	<2.9	10	10/23/2014	JMA	EPA18
n-Heptane	260	259.189	<10	260	63	10	10/23/2014	JMA	EPA18
n-Hexane	1200	1245.6	<10	1200	350	10	10/23/2014	JMA	EPA18
Naphthalene	<10	<10	<10	<10	<1.9	10	10/23/2014	JMA	EPA18
o-Xylene	19	18.846	<10	19	4.3	10	10/23/2014	JMA	EPA18
Tetrachloroethene	<10	<10	<10	<10	<1.5	10	10/23/2014	JMA	EPA18
Toluene	380	376.076	<10	380	100	10	10/23/2014	JMA	EPA18
trans-1,2-Dichloroethene	<10	<10	<10	<10	<2.5	10	10/23/2014	JMA	EPA18
Trichloroethene	130	134.003	<10	130	25	10	10/23/2014	JMA	EPA18
TRPH (Based on Benzene)	5600	5586.18	<100	5600	1800	100	10/23/2014	JMA	EPA18
Vinyl chloride	<10	<10	<10	<10	<3.9	10	10/23/2014	JMA	EPA18

Client ID: EFFLUENT C3 Z1/2 (102214)	Lab ID: 1410K42-002A	Date Sampled: 10/22/2014	Media: Tedlar Bag	Air Vol.(L): 1					
1,1,1-Trichloroethane	<10	<10	<10	<10	<1.8	10	10/23/2014	JMA	EPA18
1,1-Dichloroethene	<10	<10	<10	<10	<2.5	10	10/23/2014	JMA	EPA18
2-Butanone	<10	<10	<10	<10	<3.4	10	10/23/2014	JMA	EPA18
4-Methyl-2-pentanone	<10	<10	<10	<10	<2.4	10	10/23/2014	JMA	EPA18
Acetone	<10	<10	<10	<10	<4.2	10	10/23/2014	JMA	EPA18
Benzene	<10	<10	<10	<10	<3.1	10	10/23/2014	JMA	EPA18
Carbon tetrachloride	<10	<10	<10	<10	<1.6	10	10/23/2014	JMA	EPA18
Chloroform	<10	<10	<10	<10	<2.0	10	10/23/2014	JMA	EPA18
cis-1,2-Dichloroethene	<10	<10	<10	<10	<2.5	10	10/23/2014	JMA	EPA18
Diethyl ether	<10	<10	<10	<10	<3.3	10	10/23/2014	JMA	EPA18
Ethylbenzene	<10	<10	<10	<10	<2.3	10	10/23/2014	JMA	EPA18
Freon 141B	<10	<10	<10	<10	<2.1	10	10/23/2014	JMA	EPA18

Qualifiers:

< Less than the indicated limit of detection (LOD)

H Holding time for preparation or analysis

B Analyte detected in the associated Method Blank

(a) Analysis indicates possible breakthrough; back section result is greater than

10 % of the front section result.

**Analytical Results
for**

Arcadis

Date: 29-Oct-14

Workorder: 1410K42

Client Reference: Lafarge East Point

Analyte	Concentration					Limit of Detection (ug)	Qual	Date Analyzed	/Analyst	Test Method
	Total (ug)	Front (ug)	Back (ug)	(mg/m3)	(ppm)					
m,p-Xylene	<20	<20	<20	<20	<4.6	20		10/23/2014	JMA	EPA18
Methyl tert-butyl ether	<10	<10	<10	<10	<2.8	10		10/23/2014	JMA	EPA18
Methylene chloride	<10	<10	<10	<10	<2.9	10		10/23/2014	JMA	EPA18
n-Heptane	<10	<10	<10	<10	<2.4	10		10/23/2014	JMA	EPA18
n-Hexane	<10	<10	<10	<10	<2.8	10		10/23/2014	JMA	EPA18
Naphthalene	<10	<10	<10	<10	<1.9	10		10/23/2014	JMA	EPA18
o-Xylene	<10	<10	<10	<10	<2.3	10		10/23/2014	JMA	EPA18
Tetrachloroethene	<10	<10	<10	<10	<1.5	10		10/23/2014	JMA	EPA18
Toluene	<10	<10	<10	<10	<2.6	10		10/23/2014	JMA	EPA18
trans-1,2-Dichloroethene	<10	<10	<10	<10	<2.5	10		10/23/2014	JMA	EPA18
Trichloroethene	<10	<10	<10	<10	<1.9	10		10/23/2014	JMA	EPA18
TRPH (Based on Benzene)	<100	<100	<100	<100	<31	100		10/23/2014	JMA	EPA18
Vinyl chloride	<10	<10	<10	<10	<3.9	10		10/23/2014	JMA	EPA18

Qualifiers:

< Less than the indicated limit of detection (LOD)

H Holding time for preparation or analysis

B Analyte detected in the associated Method Blank

(a) Analysis indicates possible breakthrough; back section result is greater than

10 % of the front section result.

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Arcadis

Work Order Number 1910K42

Checklist completed by JMB Signature Date 10/22/14

Carrier name: FedEx UPS Courier Client US Mail Other

Shipping container/cooler in good condition? Yes No Not Present

Custody seals intact on shipping container/cooler? Yes No Not Present

Custody seals intact on sample bottles? Yes No Not Present

Container/Temp Blank temperature in compliance? ^{JB 10/22/14} (4°C±2) Yes No

Cooler #1 Ambient Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler #5 _____ Cooler #6 _____

Chain of custody present? Yes No

Chain of custody signed when relinquished and received? Yes No

Chain of custody agrees with sample labels? Yes No

Samples in proper container/bottle? Yes No

Sample containers intact? Yes No

Sufficient sample volume for indicated test? Yes No

All samples received within holding time? Yes No

Was TAT marked on the COC? Yes No

Proceed with Standard TAT as per project history? Yes No Not Applicable

Water - VOA vials have zero headspace? No VOA vials submitted Yes No

Water - pH acceptable upon receipt? Yes No Not Applicable

Adjusted? _____ Checked by _____

Sample Condition: Good Other(Explain) _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes No

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

Client: Arcadis
Project: Lafarge East Point
Lab Order: 1410K42

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1410K42-001A	INFLUENT C3 Z1/2 (102214)	10/22/2014 12:00:00AM	Air	Aromatic Volatiles in Air		10/22/2014	10/23/2014
1410K42-001A	INFLUENT C3 Z1/2 (102214)	10/22/2014 12:00:00AM	Air	Chlorinated Volatiles in Air		10/22/2014	10/23/2014
1410K42-001A	INFLUENT C3 Z1/2 (102214)	10/22/2014 12:00:00AM	Air	Volatile Hydrocarbons in Air		10/22/2014	10/23/2014
1410K42-002A	EFFLUENT C3 Z1/2 (102214)	10/22/2014 12:00:00AM	Air	Aromatic Volatiles in Air		10/22/2014	10/23/2014
1410K42-002A	EFFLUENT C3 Z1/2 (102214)	10/22/2014 12:00:00AM	Air	Chlorinated Volatiles in Air		10/22/2014	10/23/2014
1410K42-002A	EFFLUENT C3 Z1/2 (102214)	10/22/2014 12:00:00AM	Air	Volatile Hydrocarbons in Air		10/22/2014	10/23/2014

Client: Arcadis
 Project Name: Lafarge East Point
 Workorder: 1410K42

ANALYTICAL QC SUMMARY REPORT

BatchID: 198078

Sample ID: MB-198078	Client ID:	Units: ug, Total	Prep Date: 10/22/2014	Run No: 278461							
SampleType: MBLK	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 198078	Analysis Date: 10/23/2014	Seq No: 5885145							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane
 1,1-Dichloroethene
 Carbon tetrachloride
 Chloroform
 cis-1,2-Dichloroethene
 Freon 141B
 Methylene chloride
 Tetrachloroethene
 trans-1,2-Dichloroethene
 Trichloroethene
 Vinyl chloride

BRL
 BRL

10
 10
 10
 10
 10
 10
 10
 10
 10
 10
 10

Sample ID: MB-198078	Client ID:	Units: ug, Total	Prep Date: 10/22/2014	Run No: 278464							
SampleType: MBLK	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 198078	Analysis Date: 10/23/2014	Seq No: 5885216							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2-Butanone
 4-Methyl-2-pentanone
 Acetone
 Diethyl ether
 n-Heptane
 n-Hexane

BRL
 BRL
 BRL
 BRL
 BRL
 BRL

10
 10
 10
 10
 10
 10

Sample ID: MB-198078	Client ID:	Units: ug, Total	Prep Date: 10/22/2014	Run No: 278465							
SampleType: MBLK	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 198078	Analysis Date: 10/23/2014	Seq No: 5885376							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene

BRL
 10

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Arcadis
Project Name: Lafarge East Point
Workorder: 1410K42

ANALYTICAL QC SUMMARY REPORT

BatchID: 198078

Sample ID: MB-198078	Client ID:	Units: ug, Total	Prep Date: 10/22/2014	Run No: 278465							
SampleType: MBLK	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 198078	Analysis Date: 10/23/2014	Seq No: 5885376							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethylbenzene
m,p-Xylene
Methyl tert-butyl ether
Naphthalene
o-Xylene
Toluene
TRPH (Based on Benzene)

BRL
BRL
BRL
BRL
BRL
BRL
BRL

10
20
10
10
10
10
100

Sample ID: LCS-198078	Client ID:	Units: ug, Total	Prep Date: 10/22/2014	Run No: 278461							
SampleType: LCS	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 198078	Analysis Date: 10/23/2014	Seq No: 5885147							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane
Carbon tetrachloride
Chloroform
Methylene chloride
Tetrachloroethene
Trichloroethene

103.2
106.4
100.7
102.6
100.8
106.0

10
10
10
10
10
10

100.0
100.0
100.0
100.0
100.0
100.0

103
106
101
103
101
106

85
85
83.2
85
85
85

120
126
120
126
118
122

Sample ID: LCS-198078	Client ID:	Units: ug, Total	Prep Date: 10/22/2014	Run No: 278464							
SampleType: LCS	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 198078	Analysis Date: 10/23/2014	Seq No: 5885217							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2-Butanone
4-Methyl-2-pentanone
Acetone
Diethyl ether
n-Heptane

89.90
94.96
80.67
100.5
104.1

10
10
10
10
10

100.0
100.0
100.0
100.0
100.0

89.9
95.0
80.7
100
104

74.2
81.5
70.1
79.9
87

120
120
120
120
121

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	

Client: Arcadis
Project Name: Lafarge East Point
Workorder: 1410K42

ANALYTICAL QC SUMMARY REPORT

BatchID: 198078

Sample ID: LCS-198078	Client ID:	Units: ug, Total	Prep Date: 10/22/2014	Run No: 278464							
SampleType: LCS	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 198078	Analysis Date: 10/23/2014	Seq No: 5885217							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

n-Hexane 106.5 10 100.0 106 87.1 123

Sample ID: LCS-198078	Client ID:	Units: ug, Total	Prep Date: 10/22/2014	Run No: 278465							
SampleType: LCS	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 198078	Analysis Date: 10/23/2014	Seq No: 5885379							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene 103.7 10 100.0 104 76 123
 Ethylbenzene 104.3 10 100.0 104 80.2 124
 m,p-Xylene 205.0 20 200.0 103 78 123
 Methyl tert-butyl ether 86.17 10 100.0 86.2 71 120
 Naphthalene 48.42 10 100.0 48.4 34.4 100
 o-Xylene 97.54 10 100.0 97.5 78 118
 Toluene 101.8 10 100.0 102 78.3 121

Sample ID: LCS-198078-2	Client ID:	Units: ug, Total	Prep Date: 10/22/2014	Run No: 278461							
SampleType: LCS	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 198078	Analysis Date: 10/23/2014	Seq No: 5885153							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene 100.7 10 100.0 101 83.6 119
 cis-1,2-Dichloroethene 102.7 10 100.0 103 84.2 123
 trans-1,2-Dichloroethene 104.4 10 100.0 104 85 120

Sample ID: LCS-198078-3	Client ID:	Units: ug, Total	Prep Date: 10/22/2014	Run No: 278461							
SampleType: LCS	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 198078	Analysis Date: 10/23/2014	Seq No: 5885151							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Vinyl chloride 23.91 10 25.00 95.6 60.4 121

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Arcadis
Project Name: Lafarge East Point
Workorder: 1410K42

ANALYTICAL QC SUMMARY REPORT

BatchID: 198078

Sample ID: LCSD-198078	Client ID:	Units: ug, Total	Prep Date: 10/22/2014	Run No: 278461							
SampleType: LCSD	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 198078	Analysis Date: 10/23/2014	Seq No: 5885150							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	103.2	10	100.0		103	85	120	103.2	0.060	15	
Carbon tetrachloride	105.6	10	100.0		106	85	126	106.4	0.787	15	
Chloroform	101.8	10	100.0		102	83.2	120	100.7	1.08	15	
Methylene chloride	102.8	10	100.0		103	85	126	102.6	0.195	15	
Tetrachloroethene	99.82	10	100.0		99.8	85	118	100.8	0.984	15	
Trichloroethene	104.5	10	100.0		105	85	122	106.0	1.36	15	

Sample ID: LCSD-198078	Client ID:	Units: ug, Total	Prep Date: 10/22/2014	Run No: 278464							
SampleType: LCSD	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 198078	Analysis Date: 10/23/2014	Seq No: 5885218							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2-Butanone	90.79	10	100.0		90.8	74.2	120	89.90	0.981	15	
4-Methyl-2-pentanone	94.50	10	100.0		94.5	81.5	120	94.96	0.489	15	
Acetone	80.97	10	100.0		81.0	70.1	120	80.67	0.377	15	
Diethyl ether	100.2	10	100.0		100	79.9	120	100.5	0.292	15	
n-Heptane	103.2	10	100.0		103	87	121	104.1	0.823	15	
n-Hexane	105.9	10	100.0		106	87.1	123	106.5	0.590	15	

Sample ID: LCSD-198078	Client ID:	Units: ug, Total	Prep Date: 10/22/2014	Run No: 278465							
SampleType: LCSD	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 198078	Analysis Date: 10/23/2014	Seq No: 5885382							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene	102.7	10	100.0		103	76	123	103.7	0.921	15	
Ethylbenzene	104.0	10	100.0		104	80.2	124	104.3	0.312	15	
m,p-Xylene	204.8	20	200.0		102	78	123	205.0	0.101	15	
Methyl tert-butyl ether	85.94	10	100.0		85.9	71	120	86.17	0.260	15	
Naphthalene	46.41	10	100.0		46.4	34.4	100	48.42	4.26	15	
o-Xylene	97.35	10	100.0		97.3	78	118	97.54	0.200	15	

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Arcadis
 Project Name: Lafarge East Point
 Workorder: 1410K42

ANALYTICAL QC SUMMARY REPORT

BatchID: 198078

Sample ID: LCSD-198078	Client ID:	Units: ug, Total	Prep Date: 10/22/2014	Run No: 278465							
SampleType: LCSD	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 198078	Analysis Date: 10/23/2014	Seq No: 5885382							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Toluene	101.3	10	100.0		101	78.3	121	101.8	0.482	15	
---------	-------	----	-------	--	-----	------	-----	-------	-------	----	--

Sample ID: LCSD-198078-2	Client ID:	Units: ug, Total	Prep Date: 10/22/2014	Run No: 278461							
SampleType: LCSD	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 198078	Analysis Date: 10/23/2014	Seq No: 5885154							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	102.0	10	100.0		102	83.6	119	100.7	1.20	15	
cis-1,2-Dichloroethene	102.8	10	100.0		103	84.2	123	102.7	0.088	15	
trans-1,2-Dichloroethene	104.9	10	100.0		105	85	120	104.4	0.482	15	

Sample ID: LCSD-198078-3	Client ID:	Units: ug, Total	Prep Date: 10/22/2014	Run No: 278461							
SampleType: LCSD	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 198078	Analysis Date: 10/23/2014	Seq No: 5885152							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Vinyl chloride	23.79	10	25.00		95.2	60.4	121	23.91	0.482	19.2	
----------------	-------	----	-------	--	------	------	-----	-------	-------	------	--

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
BRL	Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S Spike Recovery outside limits due to matrix	



November 06, 2014

Greg Sitomer
Arcadis
1000 Cobb Place Blvd., Bldg. 500-A
Kennesaw GA 30144

TEL: (770) 431-8666
FAX: (770) 435-2666

RE: Lafarge East Point

Dear Greg Sitomer:

Order No: 1411217

Analytical Environmental Services, Inc. received 1 samples on 11/5/2014 7:30:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/14-06/30/15.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/15.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Chantelle Kanhai
Project Manager



ANALYTICAL ENVIRONMENTAL SERVICES, INC

3785 Presidential Parkway, Atlanta GA 30340-3704

TEL: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1411217

Date: 11-4-14

Page _____ of _____

COMPANY: <u>Arcadi's</u>		ADDRESS: <u>1000 Cobb Place Blvd Building 500A Kennesaw, GA 30144</u>			ANALYSIS REQUESTED				Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.		No # of Containers		
PHONE: <u>770 428 9009</u>		FAX: <u>770 428 4004</u>			PRESERVATION (See codes)								
SAMPLED BY: <u>John Ivan Jenkins</u>		SIGNATURE: <u>John Jenkins</u>							REMARKS				
#	SAMPLE ID	SAMPLED		Grab	Composite	Matrix (See codes)	PRESERVATION (See codes)						REMARKS
		DATE	TIME				1	2	3	4	5	6	
1	<u>INF C3 2 1/2 (100414)</u>	<u>10-4-14</u>	<u>1330</u>	<u>✓</u>		<u>Air</u>	<u>1</u>					<u>1-1L bag</u>	<u>1</u>
2													
3													
4													
5													
6													
7													
8													
9													
10													
11													
12													
13													
14													

RELINQUISHED BY		DATE/TIME	RECEIVED BY	DATE/TIME	PROJECT INFORMATION		RECEIPT	
1: <u>John Jenkins</u>		<u>11-5-14</u> <u>0730</u>	1: <u>Kevin Warner</u> <u>11-5-14</u>		PROJECT NAME: <u>Lofarge Eastpoint</u>		Total # of Containers <u>1</u>	
2:			2: <u>7:30</u>		PROJECT #: <u>HT212516.0008</u>		Turnaround Time Request	
3:					SITE ADDRESS: <u>2675 R N MARTIN ST</u> <u>EAST POINT GA</u>		<input type="radio"/> Standard 5 Business Days <input type="radio"/> 2 Business Day Rush <input checked="" type="radio"/> Next Business Day Rush <input type="radio"/> Same Day Rush (auth req.) <input type="radio"/> Other _____	
SPECIAL INSTRUCTIONS/COMMENTS: <u>Send report to:</u> <u>Kevin.Warner@arcadis-us.com</u>			SHIPMENT METHOD		SEND REPORT TO: <u>gregory.sitomer@arcadis-us.com</u>		STATE PROGRAM (if any): _____	
			OUT <u>1</u> / <u>1</u> VIA: _____		INVOICE TO: _____		E-mail? Y/N; Fax? Y/N	
			IN <u>1</u> / <u>1</u> VIA: _____		(IF DIFFERENT FROM ABOVE)		DATA PACKAGE: I II III IV	
			<input checked="" type="radio"/> CLIENT <input type="radio"/> FedEx <input type="radio"/> UPS <input type="radio"/> MAIL <input type="radio"/> COURIER <input type="radio"/> GREYHOUND <input type="radio"/> OTHER _____		QUOTE #: _____ PO#: _____			

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT. SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) O = Other (specify)

PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

Client: Arcadis
Project: Lafarge East Point
Lab ID: 1411217

Case Narrative

Sample Receiving Nonconformance:

Sample ID and collection date were taken from the sample container for login.

Analytical Results

for

Arcadis

Date: 6-Nov-14

Workorder: 1411217

Client Reference: Lafarge East Point

Analyte	Concentration					Limit of Detection (ug)	Qual	Date Analyzed /Analyst	Test Method	
	Total (ug)	Front (ug)	Back (ug)	(mg/m3)	(ppm)					
Client ID: INF C3 Z1/2(110414)	Lab ID: 1411217-001A		Date Sampled: 11/4/2014		Media: Tedlar Bag		Air Vol.(L): 1			
1,1,1-Trichloroethane	<10	<10	<10	<10	<1.8	10	11/5/2014	JMA	EPA18	
1,1-Dichloroethene	<10	<10	<10	<10	<2.5	10	11/5/2014	JMA	EPA18	
2-Butanone	<10	<10	<10	<10	<3.4	10	11/5/2014	JMA	EPA18	
4-Methyl-2-pentanone	<10	<10	<10	<10	<2.4	10	11/5/2014	JMA	EPA18	
Acetone	<10	<10	<10	<10	<4.2	10	11/5/2014	JMA	EPA18	
Benzene	75	75.473	<10	75	24	10	11/6/2014	JMA	EPA18	
Carbon tetrachloride	<10	<10	<10	<10	<1.6	10	11/5/2014	JMA	EPA18	
Chloroform	<10	<10	<10	<10	<2.0	10	11/5/2014	JMA	EPA18	
cis-1,2-Dichloroethene	220	217.901	<10	220	55	10	11/5/2014	JMA	EPA18	
Diethyl ether	<10	<10	<10	<10	<3.3	10	11/5/2014	JMA	EPA18	
Ethylbenzene	83	82.916	<10	83	19	10	11/5/2014	JMA	EPA18	
Freon 141B	<10	<10	<10	<10	<2.1	10	11/5/2014	JMA	EPA18	
m,p-Xylene	330	326.606	<20	330	75	20	11/5/2014	JMA	EPA18	
Methyl tert-butyl ether	<10	<10	<10	<10	<2.8	10	11/5/2014	JMA	EPA18	
Methylene chloride	<10	<10	<10	<10	<2.9	10	11/5/2014	JMA	EPA18	
n-Heptane	700	701.071	<10	700	170	10	11/5/2014	JMA	EPA18	
n-Hexane	1800	1791.8	<10	1800	510	10	11/5/2014	JMA	EPA18	
Naphthalene	<10	<10	<10	<10	<1.9	10	11/5/2014	JMA	EPA18	
o-Xylene	71	71.466	<10	71	16	10	11/5/2014	JMA	EPA18	
Tetrachloroethene	<10	<10	<10	<10	<1.5	10	11/5/2014	JMA	EPA18	
Toluene	1100	1104.27	<10	1100	290	10	11/5/2014	JMA	EPA18	
trans-1,2-Dichloroethene	<10	<10	<10	<10	<2.5	10	11/5/2014	JMA	EPA18	
Trichloroethene	360	358.9	<10	360	67	10	11/5/2014	JMA	EPA18	
TRPH (Based on Benzene)	12000	11563.5	<100	12000	3600	100	E	11/5/2014	JMA	EPA18
Vinyl chloride	<10	<10	<10	<10	<3.9	10	11/5/2014	JMA	EPA18	

Qualifiers:

< Less than the indicated limit of detection (LOD)

H Holding time for preparation or analysis

B Analyte detected in the associated Method Blank

(a) Analysis indicates possible breakthrough; back section result is greater than

10 % of the front section result.

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Arcadis

Work Order Number 1411217

Checklist completed by [Signature] 11/5/14
Signature Date

Carrier name: FedEx UPS Courier Client US Mail Other

Shipping container/cooler in good condition? Yes No Not Present

Custody seals intact on shipping container/cooler? Yes No Not Present

Custody seals intact on sample bottles? Yes No Not Present

Container/Temp Blank temperature in compliance? (0°-6°C)* Yes No

Cooler #1 Ambient Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present? Yes No

Chain of custody signed when relinquished and received? Yes No

Chain of custody agrees with sample labels? Yes No

Samples in proper container/bottle? Yes No

Sample containers intact? Yes No

Sufficient sample volume for indicated test? Yes No

All samples received within holding time? Yes No

Was TAT marked on the COC? Yes No

Proceed with Standard TAT as per project history? Yes No Not Applicable

Water - VOA vials have zero headspace? No VOA vials submitted Yes No

Water - pH acceptable upon receipt? Yes No Not Applicable

Adjusted? _____ Checked by _____

Sample Condition: Good Other(Explain) _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes No

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

Client: Arcadis
 Project: Lafarge East Point
 Lab Order: 1411217

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1411217-001A	INF C3 Z1/2(110414)	11/4/2014 1:30:00PM	Air	Aromatic Volatiles in Air		11/05/2014	11/05/2014
1411217-001A	INF C3 Z1/2(110414)	11/4/2014 1:30:00PM	Air	Aromatic Volatiles in Air		11/05/2014	11/06/2014
1411217-001A	INF C3 Z1/2(110414)	11/4/2014 1:30:00PM	Air	Chlorinated Volatiles in Air		11/05/2014	11/05/2014
1411217-001A	INF C3 Z1/2(110414)	11/4/2014 1:30:00PM	Air	Volatile Hydrocarbons in Air		11/05/2014	11/05/2014

Client: Arcadis
 Project Name: Lafarge East Point
 Workorder: 1411217

ANALYTICAL QC SUMMARY REPORT

BatchID: 198731

Sample ID: MB-198731	Client ID:	Units: ug, Total	Prep Date: 11/05/2014	Run No: 279338							
SampleType: MBLK	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 198731	Analysis Date: 11/05/2014	Seq No: 5907508							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane
 1,1-Dichloroethene
 Carbon tetrachloride
 Chloroform
 cis-1,2-Dichloroethene
 Freon 141B
 Methylene chloride
 Tetrachloroethene
 trans-1,2-Dichloroethene
 Trichloroethene
 Vinyl chloride

BRL
 BRL

10
 10
 10
 10
 10
 10
 10
 10
 10
 10
 10

Sample ID: MB-198731	Client ID:	Units: ug, Total	Prep Date: 11/05/2014	Run No: 279339							
SampleType: MBLK	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 198731	Analysis Date: 11/05/2014	Seq No: 5907604							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2-Butanone
 4-Methyl-2-pentanone
 Acetone
 Diethyl ether
 n-Heptane
 n-Hexane

BRL
 BRL
 BRL
 BRL
 BRL
 BRL

10
 10
 10
 10
 10
 10

Sample ID: MB-198731	Client ID:	Units: ug, Total	Prep Date: 11/05/2014	Run No: 279340							
SampleType: MBLK	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 198731	Analysis Date: 11/05/2014	Seq No: 5907661							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene

BRL
 10

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Arcadis
 Project Name: Lafarge East Point
 Workorder: 1411217

ANALYTICAL QC SUMMARY REPORT

BatchID: 198731

Sample ID: MB-198731	Client ID:	Units: ug, Total	Prep Date: 11/05/2014	Run No: 279340							
SampleType: MBLK	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 198731	Analysis Date: 11/05/2014	Seq No: 5907661							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethylbenzene
 m,p-Xylene
 Methyl tert-butyl ether
 Naphthalene
 o-Xylene
 Toluene
 TRPH (Based on Benzene)

BRL
 BRL
 BRL
 BRL
 BRL
 BRL
 BRL

10
 20
 10
 10
 10
 10
 100

Sample ID: LCS-198731	Client ID:	Units: ug, Total	Prep Date: 11/05/2014	Run No: 279338							
SampleType: LCS	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 198731	Analysis Date: 11/05/2014	Seq No: 5907511							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane
 Carbon tetrachloride
 Chloroform
 Methylene chloride
 Tetrachloroethene
 Trichloroethene

107.3
 109.9
 103.6
 105.1
 105.0
 109.6

10
 10
 10
 10
 10
 10

100.0
 100.0
 100.0
 100.0
 100.0
 100.0

107
 110
 104
 105
 105
 110

85
 85
 83.2
 85
 85
 85

120
 126
 120
 126
 118
 122

Sample ID: LCS-198731	Client ID:	Units: ug, Total	Prep Date: 11/05/2014	Run No: 279339							
SampleType: LCS	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 198731	Analysis Date: 11/05/2014	Seq No: 5907607							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2-Butanone
 4-Methyl-2-pentanone
 Acetone
 Diethyl ether
 n-Heptane

91.82
 98.50
 79.19
 102.0
 108.3

10
 10
 10
 10
 10

100.0
 100.0
 100.0
 100.0
 100.0

91.8
 98.5
 79.2
 102
 108

74.2
 81.5
 70.1
 79.9
 87

120
 120
 120
 120
 121

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
BRL	Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S Spike Recovery outside limits due to matrix	

Client: Arcadis
Project Name: Lafarge East Point
Workorder: 1411217

ANALYTICAL QC SUMMARY REPORT

BatchID: 198731

Sample ID: LCS-198731	Client ID:	Units: ug, Total	Prep Date: 11/05/2014	Run No: 279339							
SampleType: LCS	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 198731	Analysis Date: 11/05/2014	Seq No: 5907607							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

n-Hexane 110.1 10 100.0 110 87.1 123

Sample ID: LCS-198731	Client ID:	Units: ug, Total	Prep Date: 11/05/2014	Run No: 279340							
SampleType: LCS	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 198731	Analysis Date: 11/05/2014	Seq No: 5907673							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene 107.5 10 100.0 108 76 123
 Ethylbenzene 109.1 10 100.0 109 80.2 124
 m,p-Xylene 214.7 20 200.0 107 78 123
 Methyl tert-butyl ether 88.94 10 100.0 88.9 71 120
 Naphthalene 47.05 10 100.0 47.0 34.4 100
 o-Xylene 101.4 10 100.0 101 78 118
 Toluene 106.4 10 100.0 106 78.3 121

Sample ID: LCS-198731-2	Client ID:	Units: ug, Total	Prep Date: 11/05/2014	Run No: 279338							
SampleType: LCS	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 198731	Analysis Date: 11/05/2014	Seq No: 5907515							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene 102.3 10 100.0 102 83.6 119
 cis-1,2-Dichloroethene 105.4 10 100.0 105 84.2 123
 trans-1,2-Dichloroethene 106.6 10 100.0 107 85 120

Sample ID: LCS-198731-3	Client ID:	Units: ug, Total	Prep Date: 11/05/2014	Run No: 279338							
SampleType: LCS	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 198731	Analysis Date: 11/05/2014	Seq No: 5907517							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Vinyl chloride 21.11 10 25.00 84.4 60.4 121

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Arcadis
Project Name: Lafarge East Point
Workorder: 1411217

ANALYTICAL QC SUMMARY REPORT

BatchID: 198731

Sample ID: LCSD-198731	Client ID:	Units: ug, Total	Prep Date: 11/05/2014	Run No: 279338							
SampleType: LCSD	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 198731	Analysis Date: 11/05/2014	Seq No: 5907514							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	108.1	10	100.0		108	85	120	107.3	0.725	15	
Carbon tetrachloride	110.4	10	100.0		110	85	126	109.9	0.456	15	
Chloroform	104.7	10	100.0		105	83.2	120	103.6	1.06	15	
Methylene chloride	104.4	10	100.0		104	85	126	105.1	0.677	15	
Tetrachloroethene	105.2	10	100.0		105	85	118	105.0	0.226	15	
Trichloroethene	110.8	10	100.0		111	85	122	109.6	1.07	15	

Sample ID: LCSD-198731	Client ID:	Units: ug, Total	Prep Date: 11/05/2014	Run No: 279339							
SampleType: LCSD	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 198731	Analysis Date: 11/05/2014	Seq No: 5907612							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2-Butanone	90.79	10	100.0		90.8	74.2	120	91.82	1.12	15	
4-Methyl-2-pentanone	98.22	10	100.0		98.2	81.5	120	98.50	0.285	15	
Acetone	77.49	10	100.0		77.5	70.1	120	79.19	2.17	15	
Diethyl ether	101.4	10	100.0		101	79.9	120	102.0	0.536	15	
n-Heptane	109.3	10	100.0		109	87	121	108.3	0.867	15	
n-Hexane	110.6	10	100.0		111	87.1	123	110.1	0.379	15	

Sample ID: LCSD-198731	Client ID:	Units: ug, Total	Prep Date: 11/05/2014	Run No: 279340							
SampleType: LCSD	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 198731	Analysis Date: 11/05/2014	Seq No: 5907686							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene	108.3	10	100.0		108	76	123	107.5	0.716	15	
Ethylbenzene	109.8	10	100.0		110	80.2	124	109.1	0.661	15	
m,p-Xylene	216.0	20	200.0		108	78	123	214.7	0.588	15	
Methyl tert-butyl ether	89.01	10	100.0		89.0	71	120	88.94	0.082	15	
Naphthalene	47.11	10	100.0		47.1	34.4	100	47.05	0.121	15	
o-Xylene	102.1	10	100.0		102	78	118	101.4	0.674	15	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
Project Name: Lafarge East Point
Workorder: 1411217

ANALYTICAL QC SUMMARY REPORT

BatchID: 198731

Sample ID: LCSD-198731	Client ID:	Units: ug, Total	Prep Date: 11/05/2014	Run No: 279340							
SampleType: LCSD	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 198731	Analysis Date: 11/05/2014	Seq No: 5907686							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Toluene	107.0	10	100.0		107	78.3	121	106.4	0.496	15	
---------	-------	----	-------	--	-----	------	-----	-------	-------	----	--

Sample ID: LCSD-198731-2	Client ID:	Units: ug, Total	Prep Date: 11/05/2014	Run No: 279338							
SampleType: LCSD	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 198731	Analysis Date: 11/05/2014	Seq No: 5907516							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	100.8	10	100.0		101	83.6	119	102.3	1.50	15	
cis-1,2-Dichloroethene	105.4	10	100.0		105	84.2	123	105.4	0.029	15	
trans-1,2-Dichloroethene	105.5	10	100.0		106	85	120	106.6	0.997	15	

Sample ID: LCSD-198731-3	Client ID:	Units: ug, Total	Prep Date: 11/05/2014	Run No: 279338							
SampleType: LCSD	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 198731	Analysis Date: 11/05/2014	Seq No: 5907518							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Vinyl chloride	20.99	10	25.00		83.9	60.4	121	21.11	0.594	19.2	
----------------	-------	----	-------	--	------	------	-----	-------	-------	------	--

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
BRL	Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S Spike Recovery outside limits due to matrix	



January 27, 2015

Greg Sitomer
Arcadis
1000 Cobb Place Blvd., Bldg. 500-A
Kennesaw GA 30144

TEL: (770) 431-8666
FAX: (770) 435-2666

RE: Lafarge Paint Marking

Dear Greg Sitomer:

Order No: 1501E92

Analytical Environmental Services, Inc. received 3 samples on 1/21/2015 10:08:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/14-06/30/15.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/15.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Chantelle Kanhai
Project Manager



ANALYTICAL ENVIRONMENTAL SERVICES, INC

3080 Presidential Drive, Atlanta GA 30340-3704

TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1501E92

Date: 1-20-14 Page 1 of 1

COMPANY: <i>Arcadis</i>		ADDRESS: <i>1000 Cobb Place Blvd Building 500A Kennesaw, GA 30144</i>				ANALYSIS REQUESTED										Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.		No # of Containers	
PHONE: <i>770-428-9009</i>		FAX: <i>770-428-4004</i>				70-15										REMARKS			
SAMPLED BY: <i>Ivan Jenkins</i>		SIGNATURE: <i>Ivan Jenkins</i>																PRESERVATION (See codes)	
#	SAMPLE ID	SAMPLED		Grab	Composite	Matrix (See codes)											REMARKS		
		DATE	TIME																
1	<i>AS/SVE ONLY Z11Z (012015)</i>	<i>1-20-15</i>	<i>1454</i>	<i>/</i>		<i>AV</i>	<i>1</i>											<i>PCAS</i>	<i>1</i>
2	<i>AS/SVE Z100 (012015)</i>	<i>1-20-15</i>	<i>1750</i>	<i>/</i>		<i>AV</i>	<i>1</i>											<i>ASZA</i>	<i>1</i>
3	<i>AS/SVE Z200 (012015)</i>	<i>1-20-15</i>	<i>1901</i>	<i>/</i>		<i>AV</i>	<i>1</i>											<i>ASZC</i>	<i>1</i>
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
RELINQUISHED BY		DATE/TIME		RECEIVED BY		DATE/TIME		PROJECT INFORMATION										RECEIPT	
<i>Ivan Jenkins</i>		<i>1-21-15 1008</i>		<i>Catay Reeves</i>		<i>12/15 1005a</i>		PROJECT NAME: <i>LaFarge Point Marking</i>										Total # of Containers	
								PROJECT #: <i>HT 212446.0014.00002</i>										<input checked="" type="radio"/> Turnaround Time Request <input type="radio"/> Standard 5 Business Days <input type="radio"/> 2 Business Day Rush <input type="radio"/> Next Business Day Rush <input type="radio"/> Same Day Rush (auth req.) <input type="radio"/> Other _____	
								SITE ADDRESS: <i>2675 R N Martin St East Point, GA</i>											
								SEND REPORT TO: <i>gregory.sitomer@arcadis-us.com</i>										STATE PROGRAM (if any): _____ E-mail? Y/N; Fax? Y/N DATA PACKAGE: I II III IV	
								INVOICE TO: (IF DIFFERENT FROM ABOVE)											
SPECIAL INSTRUCTIONS/COMMENTS:				SHIPMENT METHOD				QUOTE #:										PO#:	
				OUT / / VIA: IN / / VIA: <input checked="" type="radio"/> CLIENT <input type="radio"/> FedEx <input type="radio"/> UPS <input type="radio"/> MAIL <input type="radio"/> COURIER <input type="radio"/> KEYHOUND <input type="radio"/> OTHER _____															

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES. SAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMPLETION UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water
 PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

Analytical Results

for

Arcadis

Date: 27-Jan-15

Workorder: 1501E92

Client Reference: Lafarge Paint Marking

Analyte	Concentration					Limit of Detection (ug)	Qual	Date Analyzed /Analyst	Test Method
	Total (ug)	Front (ug)	Back (ug)	(mg/m3)	(ppm)				
Client ID: AS/SVE ONLY Z1/2 (012015)	Lab ID: 1501E92-001A	Date Sampled: 1/20/2015	Media: Tedlar Bag	Air Vol.(L): 1					
1,1,1-Trichloroethane	<10	<10	<10	<10	<1.8	10	1/22/2015	JMA	EPA18
1,1-Dichloroethene	<10	<10	<10	<10	<2.5	10	1/22/2015	JMA	EPA18
2-Butanone	<10	<10	<10	<10	<3.4	10	1/22/2015	JMA	EPA18
4-Methyl-2-pentanone	<10	<10	<10	<10	<2.4	10	1/22/2015	JMA	EPA18
Acetone	<10	<10	<10	<10	<4.2	10	1/22/2015	JMA	EPA18
Benzene	40	40.112	<10	40	13	10	1/23/2015	JMA	EPA18
Carbon tetrachloride	<10	<10	<10	<10	<1.6	10	1/22/2015	JMA	EPA18
Chloroform	<10	<10	<10	<10	<2.0	10	1/22/2015	JMA	EPA18
cis-1,2-Dichloroethene	110	106.477	<10	110	27	10	1/22/2015	JMA	EPA18
Diethyl ether	<10	<10	<10	<10	<3.3	10	1/22/2015	JMA	EPA18
Ethylbenzene	55	54.73	<10	55	13	10	1/22/2015	JMA	EPA18
Freon 141B	<10	<10	<10	<10	<2.1	10	1/22/2015	JMA	EPA18
m,p-Xylene	220	223.301	<20	220	51	20	1/22/2015	JMA	EPA18
Methyl tert-butyl ether	<10	<10	<10	<10	<2.8	10	1/22/2015	JMA	EPA18
Methylene chloride	<10	<10	<10	<10	<2.9	10	1/22/2015	JMA	EPA18
n-Heptane	350	352.828	<10	350	86	10	1/22/2015	JMA	EPA18
n-Hexane	1200	1162.97	<10	1200	330	10	1/22/2015	JMA	EPA18
Naphthalene	<10	<10	<10	<10	<1.9	10	1/22/2015	JMA	EPA18
o-Xylene	57	56.571	<10	57	13	10	1/22/2015	JMA	EPA18
Tetrachloroethene	<10	<10	<10	<10	<1.5	10	1/22/2015	JMA	EPA18
Toluene	620	619.318	<10	620	160	10	1/22/2015	JMA	EPA18
trans-1,2-Dichloroethene	<10	<10	<10	<10	<2.5	10	1/22/2015	JMA	EPA18
Trichloroethene	170	167.796	<10	170	31	10	1/22/2015	JMA	EPA18
TRPH (Based on Benzene)	7000	7001.57	<100	7000	2200	100	1/22/2015	JMA	EPA18
Vinyl chloride	<10	<10	<10	<10	<3.9	10	1/22/2015	JMA	EPA18

Client ID: AS/SVE Z100 (012015)	Lab ID: 1501E92-002A	Date Sampled: 1/20/2015	Media: Tedlar Bag	Air Vol.(L): 1					
1,1,1-Trichloroethane	<10	<10	<10	<10	<1.8	10	1/22/2015	JMA	EPA18
1,1-Dichloroethene	<10	<10	<10	<10	<2.5	10	1/22/2015	JMA	EPA18
2-Butanone	<10	<10	<10	<10	<3.4	10	1/22/2015	JMA	EPA18
4-Methyl-2-pentanone	<10	<10	<10	<10	<2.4	10	1/22/2015	JMA	EPA18
Acetone	<10	<10	<10	<10	<4.2	10	1/22/2015	JMA	EPA18
Benzene	55	55.013	<10	55	17	10	1/23/2015	JMA	EPA18
Carbon tetrachloride	<10	<10	<10	<10	<1.6	10	1/22/2015	JMA	EPA18
Chloroform	<10	<10	<10	<10	<2.0	10	1/22/2015	JMA	EPA18
cis-1,2-Dichloroethene	90	89.978	<10	90	23	10	1/22/2015	JMA	EPA18
Diethyl ether	<10	<10	<10	<10	<3.3	10	1/22/2015	JMA	EPA18
Ethylbenzene	62	62.422	<10	62	14	10	1/22/2015	JMA	EPA18
Freon 141B	<10	<10	<10	<10	<2.1	10	1/22/2015	JMA	EPA18

Qualifiers:

< Less than the indicated limit of detection (LOD)

H Holding time for preparation or analysis

B Analyte detected in the associated Method Blank

(a) Analysis indicates possible breakthrough; back section result is greater than

10 % of the front section result.

Analytical Results

for

Arcadis

Date: 27-Jan-15

Workorder: 1501E92

Client Reference: Lafarge Paint Marking

Analyte	Concentration					Limit of Detection (ug)	Qual	Date Analyzed	Test Method
	Total (ug)	Front (ug)	Back (ug)	(mg/m3)	(ppm)				
m,p-Xylene	270	265.526	<20	270	61	20	1/22/2015	JMA	EPA18
Methyl tert-butyl ether	<10	<10	<10	<10	<2.8	10	1/22/2015	JMA	EPA18
Methylene chloride	<10	<10	<10	<10	<2.9	10	1/22/2015	JMA	EPA18
n-Heptane	460	457.249	<10	460	110	10	1/22/2015	JMA	EPA18
n-Hexane	1200	1203.41	<10	1200	340	10	1/22/2015	JMA	EPA18
Naphthalene	<10	<10	<10	<10	<1.9	10	1/22/2015	JMA	EPA18
trans-1,2-Dichloroethene	<10	<10	<10	<10	<2.5	10	1/22/2015	JMA	EPA18
Toluene	770	771.195	<10	770	210	10	1/22/2015	JMA	EPA18
Vinyl chloride	<10	<10	<10	<10	<3.9	10	1/22/2015	JMA	EPA18
o-Xylene	67	67.485	<10	67	16	10	1/22/2015	JMA	EPA18
Tetrachloroethene	<10	<10	<10	<10	<1.5	10	1/22/2015	JMA	EPA18
Trichloroethene	180	183.769	<10	180	34	10	1/22/2015	JMA	EPA18
TRPH (Based on Benzene)	8100	8091.05	<100	8100	2500	100	1/22/2015	JMA	EPA18

Client ID: AS/SVE Z200 (012015) **Lab ID:** 1501E92-003A **Date Sampled:** 1/20/2015 **Media:** Tedlar Bag **Air Vol.(L):** 1

1,1-Dichloroethene	<10	<10	<10	<10	<2.5	10	1/22/2015	JMA	EPA18
2-Butanone	<10	<10	<10	<10	<3.4	10	1/22/2015	JMA	EPA18
4-Methyl-2-pentanone	<10	<10	<10	<10	<2.4	10	1/22/2015	JMA	EPA18
Acetone	<10	<10	<10	<10	<4.2	10	1/22/2015	JMA	EPA18
Benzene	60	59.592	<10	60	19	10	1/23/2015	JMA	EPA18
Carbon tetrachloride	<10	<10	<10	<10	<1.6	10	1/22/2015	JMA	EPA18
Chloroform	<10	<10	<10	<10	<2.0	10	1/22/2015	JMA	EPA18
cis-1,2-Dichloroethene	120	120.612	<10	120	30	10	1/22/2015	JMA	EPA18
Diethyl ether	<10	<10	<10	<10	<3.3	10	1/22/2015	JMA	EPA18
Ethylbenzene	50	49.703	<10	50	11	10	1/22/2015	JMA	EPA18
Freon 141B	<10	<10	<10	<10	<2.1	10	1/22/2015	JMA	EPA18
m,p-Xylene	210	212.881	<20	210	49	20	1/22/2015	JMA	EPA18
Methyl tert-butyl ether	<10	<10	<10	<10	<2.8	10	1/22/2015	JMA	EPA18
Methylene chloride	<10	<10	<10	<10	<2.9	10	1/22/2015	JMA	EPA18
n-Heptane	430	429.927	<10	430	110	10	1/22/2015	JMA	EPA18
n-Hexane	1400	1443.16	<10	1400	410	10	1/22/2015	JMA	EPA18
Naphthalene	<10	<10	<10	<10	<1.9	10	1/22/2015	JMA	EPA18
o-Xylene	55	55.074	<10	55	13	10	1/22/2015	JMA	EPA18
Tetrachloroethene	<10	<10	<10	<10	<1.5	10	1/22/2015	JMA	EPA18
Toluene	700	700.727	<10	700	190	10	1/22/2015	JMA	EPA18
trans-1,2-Dichloroethene	<10	<10	<10	<10	<2.5	10	1/22/2015	JMA	EPA18
Trichloroethene	200	198.48	<10	200	37	10	1/22/2015	JMA	EPA18
TRPH (Based on Benzene)	8500	8523.77	<100	8500	2700	100	1/22/2015	JMA	EPA18
Vinyl chloride	<10	<10	<10	<10	<3.9	10	1/22/2015	JMA	EPA18
1,1,1-Trichloroethane	<10	<10	<10	<10	<1.8	10	1/22/2015	JMA	EPA18

Qualifiers:

< Less than the indicated limit of detection (LOD)

H Holding time for preparation or analysis

B Analyte detected in the associated Method Blank

(a) Analysis indicates possible breakthrough; back section result is greater than

10 % of the front section result.

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Arcadis

Work Order Number 1501E92

Checklist completed by [Signature] 1/21/15
Signature Date

Carrier name: FedEx UPS Courier Client US Mail Other

Shipping container/cooler in good condition? Yes No Not Present

Custody seals intact on shipping container/cooler? Yes No Not Present

Custody seals intact on sample bottles? Yes No Not Present

Container/Temp Blank temperature in compliance? SM _{1/21/15} ~~(0°-6°C)*~~ Yes No

Cooler #1 amb. Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present? Yes No

Chain of custody signed when relinquished and received? Yes No

Chain of custody agrees with sample labels? Yes No

Samples in proper container/bottle? Yes No

Sample containers intact? Yes No

Sufficient sample volume for indicated test? Yes No

All samples received within holding time? Yes No

Was TAT marked on the COC? Yes No

Proceed with Standard TAT as per project history? Yes No Not Applicable

Water - VOA vials have zero headspace? No VOA vials submitted Yes No

Water - pH acceptable upon receipt? Yes No Not Applicable

Sample Condition: Good Adjusted? _____ Other(Explain) _____
Checked by _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes No

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

Client: Arcadis
 Project Name: Lafarge Paint Marking
 Lab Order: 1501E92

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1501E92-001A	AS/SVE ONLY Z1/2 (012015)	1/20/2015 2:54:00PM	Air	Aromatic Volatiles in Air		1/21/2015 1:43:29 PM	01/22/2015
1501E92-001A	AS/SVE ONLY Z1/2 (012015)	1/20/2015 2:54:00PM	Air	Aromatic Volatiles in Air		1/21/2015 1:43:29 PM	01/23/2015
1501E92-001A	AS/SVE ONLY Z1/2 (012015)	1/20/2015 2:54:00PM	Air	Chlorinated Volatiles in Air		1/21/2015 1:43:29 PM	01/22/2015
1501E92-001A	AS/SVE ONLY Z1/2 (012015)	1/20/2015 2:54:00PM	Air	Volatile Hydrocarbons in Air		1/21/2015 1:43:29 PM	01/22/2015
1501E92-002A	AS/SVE Z100 (012015)	1/20/2015 5:50:00PM	Air	Aromatic Volatiles in Air		1/21/2015 1:43:29 PM	01/22/2015
1501E92-002A	AS/SVE Z100 (012015)	1/20/2015 5:50:00PM	Air	Aromatic Volatiles in Air		1/21/2015 1:43:29 PM	01/23/2015
1501E92-002A	AS/SVE Z100 (012015)	1/20/2015 5:50:00PM	Air	Chlorinated Volatiles in Air		1/21/2015 1:43:29 PM	01/22/2015
1501E92-002A	AS/SVE Z100 (012015)	1/20/2015 5:50:00PM	Air	Volatile Hydrocarbons in Air		1/21/2015 1:43:29 PM	01/22/2015
1501E92-003A	AS/SVE Z200 (012015)	1/20/2015 7:01:00PM	Air	Aromatic Volatiles in Air		1/21/2015 1:43:29 PM	01/22/2015
1501E92-003A	AS/SVE Z200 (012015)	1/20/2015 7:01:00PM	Air	Aromatic Volatiles in Air		1/21/2015 1:43:29 PM	01/23/2015
1501E92-003A	AS/SVE Z200 (012015)	1/20/2015 7:01:00PM	Air	Chlorinated Volatiles in Air		1/21/2015 1:43:29 PM	01/22/2015
1501E92-003A	AS/SVE Z200 (012015)	1/20/2015 7:01:00PM	Air	Volatile Hydrocarbons in Air		1/21/2015 1:43:29 PM	01/22/2015

Client: Arcadis
Project Name: Lafarge Paint Marking
Workorder: 1501E92

ANALYTICAL QC SUMMARY REPORT

BatchID: 201989

Sample ID: MB-201989	Client ID:	Units: ug, Total	Prep Date: 01/21/2015	Run No: 284295							
SampleType: MBLK	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 201989	Analysis Date: 01/22/2015	Seq No: 6027019							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2-Butanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	10									
Diethyl ether	BRL	10									
n-Heptane	BRL	10									
n-Hexane	BRL	10									

Sample ID: MB-201989	Client ID:	Units: ug, Total	Prep Date: 01/21/2015	Run No: 284296							
SampleType: MBLK	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 201989	Analysis Date: 01/22/2015	Seq No: 6027031							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene	BRL	10									
Ethylbenzene	BRL	10									
m,p-Xylene	BRL	20									
Methyl tert-butyl ether	BRL	10									
Naphthalene	BRL	10									
o-Xylene	BRL	10									
Toluene	BRL	10									
TRPH (Based on Benzene)	BRL	100									

Sample ID: MB-201989	Client ID:	Units: ug, Total	Prep Date: 01/21/2015	Run No: 284294							
SampleType: MBLK	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 201989	Analysis Date: 01/22/2015	Seq No: 6027600							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	BRL	10									
1,1-Dichloroethene	BRL	10									
Carbon tetrachloride	BRL	10									
Chloroform	BRL	10									

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Arcadis
Project Name: Lafarge Paint Marking
Workorder: 1501E92

ANALYTICAL QC SUMMARY REPORT

BatchID: 201989

Sample ID: MB-201989	Client ID:	Units: ug, Total	Prep Date: 01/21/2015	Run No: 284294							
SampleType: MBLK	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 201989	Analysis Date: 01/22/2015	Seq No: 6027600							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

cis-1,2-Dichloroethene
 Freon 141B
 Methylene chloride
 Tetrachloroethene
 trans-1,2-Dichloroethene
 Trichloroethene
 Vinyl chloride

BRL
 BRL
 BRL
 BRL
 BRL
 BRL
 BRL

10
 10
 10
 10
 10
 10
 10

Sample ID: LCS-201989	Client ID:	Units: ug, Total	Prep Date: 01/21/2015	Run No: 284295							
SampleType: LCS	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 201989	Analysis Date: 01/22/2015	Seq No: 6027020							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2-Butanone
 4-Methyl-2-pentanone
 Acetone
 Diethyl ether
 n-Heptane
 n-Hexane

86.99
 91.81
 76.02
 92.91
 97.91
 99.45

10
 10
 10
 10
 10
 10

100.0
 100.0
 100.0
 100.0
 100.0
 100.0

87.0
 91.8
 76.0
 92.9
 97.9
 99.5

82
 85
 66.3
 85
 85
 85

120
 120
 120
 120
 120
 121

Sample ID: LCS-201989	Client ID:	Units: ug, Total	Prep Date: 01/21/2015	Run No: 284296							
SampleType: LCS	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 201989	Analysis Date: 01/22/2015	Seq No: 6027032							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene
 Ethylbenzene
 m,p-Xylene
 Methyl tert-butyl ether
 Naphthalene

95.78
 97.26
 192.1
 87.17
 39.50

10
 10
 20
 10
 10

100.0
 100.0
 200.0
 100.0
 100.0

95.8
 97.3
 96.0
 87.2
 39.5

80
 80
 80
 72.7
 36.8

119
 122
 120
 120
 100

Qualifiers: > Greater than Result value
 BRL Below reporting limit
 J Estimated value detected below Reporting Limit
 Rpt Lim Reporting Limit

< Less than Result value
 E Estimated (value above quantitation range)
 N Analyte not NELAC certified
 S Spike Recovery outside limits due to matrix

B Analyte detected in the associated method blank
 H Holding times for preparation or analysis exceeded
 R RPD outside limits due to matrix

Client: Arcadis
Project Name: Lafarge Paint Marking
Workorder: 1501E92

ANALYTICAL QC SUMMARY REPORT

BatchID: 201989

Sample ID: LCS-201989	Client ID:	Units: ug, Total	Prep Date: 01/21/2015	Run No: 284296							
SampleType: LCS	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 201989	Analysis Date: 01/22/2015	Seq No: 6027032							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

o-Xylene	91.33	10	100.0		91.3	80	115				
Toluene	94.57	10	100.0		94.6	80	118				

Sample ID: LCS-201989	Client ID:	Units: ug, Total	Prep Date: 01/21/2015	Run No: 284294							
SampleType: LCS	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 201989	Analysis Date: 01/22/2015	Seq No: 6027601							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	95.82	10	100.0		95.8	85	118				
Carbon tetrachloride	95.26	10	100.0		95.3	85	121				
Chloroform	93.40	10	100.0		93.4	85	120				
Methylene chloride	92.56	10	100.0		92.6	85	120				
Tetrachloroethene	93.31	10	100.0		93.3	85	117				
Trichloroethene	95.06	10	100.0		95.1	85	120				

Sample ID: LCS-201989-2	Client ID:	Units: ug, Total	Prep Date: 01/21/2015	Run No: 284294							
SampleType: LCS	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 201989	Analysis Date: 01/22/2015	Seq No: 6027603							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	90.72	10	100.0		90.7	85	120				
cis-1,2-Dichloroethene	96.62	10	100.0		96.6	85	117				
trans-1,2-Dichloroethene	96.78	10	100.0		96.8	85	120				

Sample ID: LCS-201989-3	Client ID:	Units: ug, Total	Prep Date: 01/21/2015	Run No: 284294							
SampleType: LCS	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 201989	Analysis Date: 01/22/2015	Seq No: 6027605							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Vinyl chloride	17.61	10	25.00		70.5	62.3	126				
----------------	-------	----	-------	--	------	------	-----	--	--	--	--

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
Project Name: Lafarge Paint Marking
Workorder: 1501E92

ANALYTICAL QC SUMMARY REPORT

BatchID: 201989

Sample ID: LCS D-201989	Client ID:	Units: ug, Total	Prep Date: 01/21/2015	Run No: 284295							
SampleType: LCS D	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 201989	Analysis Date: 01/22/2015	Seq No: 6027021							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2-Butanone	89.89	10	100.0		89.9	82	120	86.99	3.28	15	
4-Methyl-2-pentanone	95.51	10	100.0		95.5	85	120	91.81	3.95	15	
Acetone	78.77	10	100.0		78.8	66.3	120	76.02	3.55	15	
Diethyl ether	95.07	10	100.0		95.1	85	120	92.91	2.30	15	
n-Heptane	101.4	10	100.0		101	85	120	97.91	3.47	15	
n-Hexane	102.5	10	100.0		103	85	121	99.45	3.05	15	

Sample ID: LCS D-201989	Client ID:	Units: ug, Total	Prep Date: 01/21/2015	Run No: 284296							
SampleType: LCS D	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 201989	Analysis Date: 01/22/2015	Seq No: 6027033							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene	98.94	10	100.0		98.9	80	119	95.78	3.25	15	
Ethylbenzene	99.29	10	100.0		99.3	80	122	97.26	2.07	15	
m,p-Xylene	196.1	20	200.0		98.1	80	120	192.1	2.09	15	
Methyl tert-butyl ether	89.90	10	100.0		89.9	72.7	120	87.17	3.08	15	
Naphthalene	39.35	10	100.0		39.3	36.8	100	39.50	0.378	15	
o-Xylene	93.17	10	100.0		93.2	80	115	91.33	1.99	15	
Toluene	98.46	10	100.0		98.5	80	118	94.57	4.03	15	

Sample ID: LCS D-201989	Client ID:	Units: ug, Total	Prep Date: 01/21/2015	Run No: 284294							
SampleType: LCS D	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 201989	Analysis Date: 01/22/2015	Seq No: 6027602							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	98.47	10	100.0		98.5	85	118	95.82	2.73	15	
Carbon tetrachloride	97.89	10	100.0		97.9	85	121	95.26	2.72	15	
Chloroform	95.11	10	100.0		95.1	85	120	93.40	1.82	15	
Methylene chloride	96.28	10	100.0		96.3	85	120	92.56	3.93	15	
Tetrachloroethene	95.90	10	100.0		95.9	85	117	93.31	2.73	15	

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Arcadis
Project Name: Lafarge Paint Marking
Workorder: 1501E92

ANALYTICAL QC SUMMARY REPORT

BatchID: 201989

Sample ID: LCSD-201989	Client ID:	Units: ug, Total	Prep Date: 01/21/2015	Run No: 284294							
SampleType: LCSD	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 201989	Analysis Date: 01/22/2015	Seq No: 6027602							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Trichloroethene	98.51	10	100.0		98.5	85	120	95.06	3.56	15	
-----------------	-------	----	-------	--	------	----	-----	-------	------	----	--

Sample ID: LCSD-201989-2	Client ID:	Units: ug, Total	Prep Date: 01/21/2015	Run No: 284294							
SampleType: LCSD	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 201989	Analysis Date: 01/22/2015	Seq No: 6027604							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	92.25	10	100.0		92.3	85	120	90.72	1.68	15	
cis-1,2-Dichloroethene	98.16	10	100.0		98.2	85	117	96.62	1.58	15	
trans-1,2-Dichloroethene	97.83	10	100.0		97.8	85	120	96.78	1.08	15	

Sample ID: LCSD-201989-3	Client ID:	Units: ug, Total	Prep Date: 01/21/2015	Run No: 284294							
SampleType: LCSD	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 201989	Analysis Date: 01/22/2015	Seq No: 6027606							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Vinyl chloride	17.41	10	25.00		69.7	62.3	126	17.61	1.14	19.2	
----------------	-------	----	-------	--	------	------	-----	-------	------	------	--

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
BRL	Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S Spike Recovery outside limits due to matrix	



February 06, 2015

Greg Sitomer
Arcadis
1000 Cobb Place Blvd., Bldg. 500-A
Kennesaw GA 30144

TEL: (770) 431-8666
FAX: (770) 435-2666

RE: Lafarge Point Marking

Dear Greg Sitomer:

Order No: 1501N84

Analytical Environmental Services, Inc. received 3 samples on 1/30/2015 9:12:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/14-06/30/15.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/15.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Chantelle Kanhai
Project Manager

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

3080 Presidential Drive, Atlanta, GA 30340-3704

Tel.: (770) 457-8177 (800) 972-4889

www.aesatlanta.com

1501N84

CHAIN OF CUSTODY FORM FOR AIR SAMPLE ANALYSIS

Client Name: Arcadis Contact: Greg Sitar
gregory.sitar@arcadis-us.com Project Name/#: Lortarge Point Marking HT212446.0014.00002
 Address: 1000 Cobb Place Blvd Phone: 770 428 9009 cell 770 520 7078 Samplers Name: Ivan Jenkins
At Suite Building 500A Fax: 770 428 4004 Sampling Date: All 3 samples on 1-29-15
Kennesaw, GA 30144

SAMPLE ID	SAMPLE DESCRIPTION (e.g. Locations, Name, etc)	PUMP NUMBER	TIME		FLOW RATE			VOLUME	ANALYSIS REQUESTED/REMARKS
			START	END	INITIAL	FINAL	AVG		
<u>SVE ONLY Z 394 (012915)</u>	<u>C3 INF</u>	<u>NONE</u>	<u>1103</u>	<u>1103</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>1 L Tedlar</u>	<u>TO-15</u>
<u>AS/SVE Z 300 (012915)</u>	<u>C3 INF</u>	<u>"</u>	<u>1515</u>	<u>1515</u>	<u>"</u>	<u>"</u>	<u>"</u>	<u>1 L Tedlar</u>	<u>TO-15</u>
<u>AS/SVE Z 400 (012915)</u>	<u>C3 INF</u>	<u>"</u>	<u>1937</u>	<u>1937</u>	<u>"</u>	<u>"</u>	<u>"</u>	<u>1 L Tedlar</u>	<u>TO-15</u>

Turnaround Time: Normal (5 days): 3 Days Rush: 2 Days Rush: Next Day Rush:

Comments: _____

Relinquished By: <u>Ivan Jenkins</u>	Date/Time: <u>1-30-15 0912</u>
Received By: _____	Date/Time: _____
Relinquished By: _____	Date/Time: _____
Received By: _____	Date/Time: _____

Delivered Direct to Lab: Shipped:
 Method of Shipment: client
 Lab Recipient: Catay Reeves
 Date: 1/30/15 9:12a

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE FOLLOWING BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT.

Analytical Results

for

Arcadis

Date: 6-Feb-15

Workorder: 1501N84

Client Reference: Lafarge Point Marking

Analyte	Concentration					Limit of Detection (ug)	Qual	Date Analyzed /Analyst	Test Method
	Total (ug)	Front (ug)	Back (ug)	(mg/m3)	(ppm)				
Client ID: SVE ONLY Z3+4 (012915)	Lab ID: 1501N84-001A	Date Sampled: 1/29/2015	Media: Tedlar Bag	Air Vol.(L): 1					
1,1,1-Trichloroethane	<10	<10	<10	<10	<1.8	10		2/4/2015	JMA EPA18
1,1-Dichloroethene	<10	<10	<10	<10	<2.5	10		2/4/2015	JMA EPA18
2-Butanone	<10	<10	<10	<10	<3.4	10		2/4/2015	JMA EPA18
4-Methyl-2-pentanone	<10	<10	<10	<10	<2.4	10		2/4/2015	JMA EPA18
Acetone	<10	<10	<10	<10	<4.2	10		2/4/2015	JMA EPA18
Benzene	110	113.43	<10	110	36	10		2/5/2015	JMA EPA18
Carbon tetrachloride	<10	<10	<10	<10	<1.6	10		2/4/2015	JMA EPA18
Chloroform	<10	<10	<10	<10	<2.0	10		2/4/2015	JMA EPA18
cis-1,2-Dichloroethene	38	16.556	21.215	38	9.5	10	(a)	2/4/2015	JMA EPA18
Diethyl ether	<10	<10	<10	<10	<3.3	10		2/4/2015	JMA EPA18
Ethylbenzene	72	72.171	<10	72	17	10		2/4/2015	JMA EPA18
Freon 141B	<10	<10	<10	<10	<2.1	10		2/4/2015	JMA EPA18
m,p-Xylene	250	247.669	<20	250	57	20		2/4/2015	JMA EPA18
Methyl tert-butyl ether	<10	<10	<10	<10	<2.8	10		2/4/2015	JMA EPA18
Methylene chloride	<10	<10	<10	<10	<2.9	10		2/4/2015	JMA EPA18
n-Heptane	1200	1161.64	27.953	1200	290	10		2/4/2015	JMA EPA18
n-Hexane	4200	3681.7	521.175	4200	1200	200	(a)	2/4/2015	JMA EPA18
Naphthalene	<10	<10	<10	<10	<1.9	10		2/4/2015	JMA EPA18
o-Xylene	44	43.667	<10	44	10	10		2/4/2015	JMA EPA18
Tetrachloroethene	<10	<10	<10	<10	<1.5	10		2/4/2015	JMA EPA18
Toluene	600	598.464	<10	600	160	10		2/4/2015	JMA EPA18
trans-1,2-Dichloroethene	<10	<10	<10	<10	<2.5	10		2/4/2015	JMA EPA18
Trichloroethene	<10	<10	<10	<10	<1.9	10		2/4/2015	JMA EPA18
TRPH (Based on Benzene)	19000	17218.9	2232.77	19000	6100	100	(a)	2/4/2015	JMA EPA18
Vinyl chloride	<10	<10	<10	<10	<3.9	10		2/4/2015	JMA EPA18

Client ID: AS/SVE Z300 (012915)	Lab ID: 1501N84-002A	Date Sampled: 1/29/2015	Media: Tedlar Bag	Air Vol.(L): 1					
1,1,1-Trichloroethane	<10	<10	<10	<10	<1.8	10		2/4/2015	JMA EPA18
1,1-Dichloroethene	<10	<10	<10	<10	<2.5	10		2/4/2015	JMA EPA18
2-Butanone	<10	<10	<10	<10	<3.4	10		2/4/2015	JMA EPA18
4-Methyl-2-pentanone	<10	<10	<10	<10	<2.4	10		2/4/2015	JMA EPA18
Acetone	<10	<10	<10	<10	<4.2	10		2/4/2015	JMA EPA18
Benzene	190	137.989	56.049	190	61	10	(a)	2/5/2015	JMA EPA18
Carbon tetrachloride	<10	<10	<10	<10	<1.6	10		2/4/2015	JMA EPA18
Chloroform	<10	<10	<10	<10	<2.0	10		2/4/2015	JMA EPA18
cis-1,2-Dichloroethene	92	52.484	39.784	92	23	10	(a)	2/4/2015	JMA EPA18
Diethyl ether	<10	<10	<10	<10	<3.3	10		2/4/2015	JMA EPA18
Ethylbenzene	86	85.875	<10	86	20	10		2/4/2015	JMA EPA18
Freon 141B	<10	<10	<10	<10	<2.1	10		2/4/2015	JMA EPA18

Qualifiers:

< Less than the indicated limit of detection (LOD)

H Holding time for preparation or analysis

B Analyte detected in the associated Method Blank

(a) Analysis indicates possible breakthrough; back section result is greater than

10 % of the front section result.

Analytical Results

for

Arcadis

Date: 6-Feb-15

Workorder: 1501N84

Client Reference: Lafarge Point Marking

Analyte	Concentration					Limit of Detection (ug)	Qual	Date Analyzed	Test Method
	Total (ug)	Front (ug)	Back (ug)	(mg/m3)	(ppm)				
m,p-Xylene	310	307.577	<20	310	71	20		2/4/2015	JMA EPA18
Methyl tert-butyl ether	<10	<10	<10	<10	<2.8	10		2/4/2015	JMA EPA18
Methylene chloride	<10	<10	<10	<10	<2.9	10		2/4/2015	JMA EPA18
n-Heptane	1700	1539.79	191.09	1700	420	10	(a)	2/4/2015	JMA EPA18
n-Hexane	8700	5077.93	3629.26	8700	2500	100	(a)	2/4/2015	JMA EPA18
Naphthalene	<10	<10	<10	<10	<1.9	10		2/4/2015	JMA EPA18
o-Xylene	56	56.465	<10	56	13	10		2/4/2015	JMA EPA18
Tetrachloroethene	<10	<10	<10	<10	<1.5	10		2/4/2015	JMA EPA18
Toluene	1200	1155.48	14.068	1200	310	10		2/4/2015	JMA EPA18
trans-1,2-Dichloroethene	<10	<10	<10	<10	<2.5	10		2/4/2015	JMA EPA18
Trichloroethene	19	0	18.781	19	3.5	10	(a)	2/4/2015	JMA EPA18
TRPH (Based on Benzene)	33000	22810	10507.6	33000	10000	100	(a)	2/4/2015	JMA EPA18
Vinyl chloride	<10	<10	<10	<10	<3.9	10		2/4/2015	JMA EPA18

Client ID: AS/SVE Z400 (012915) **Lab ID:** 1501N84-003A **Date Sampled:** 1/29/2015 **Media:** Tedlar Bag **Air Vol.(L):** 1

1,1,1-Trichloroethane	<10	<10	<10	<10	<1.8	10		2/4/2015	JMA EPA18
1,1-Dichloroethene	<10	<10	<10	<10	<2.5	10		2/4/2015	JMA EPA18
2-Butanone	<10	<10	<10	<10	<3.4	10		2/4/2015	JMA EPA18
4-Methyl-2-pentanone	<10	<10	<10	<10	<2.4	10		2/4/2015	JMA EPA18
Acetone	<10	<10	<10	<10	<4.2	10		2/4/2015	JMA EPA18
Benzene	240	150.705	88.141	240	75	10	(a)	2/5/2015	JMA EPA18
Carbon tetrachloride	<10	<10	<10	<10	<1.6	10		2/4/2015	JMA EPA18
Chloroform	<10	<10	<10	<10	<2.0	10		2/4/2015	JMA EPA18
cis-1,2-Dichloroethene	64	38.474	25.963	64	16	10	(a)	2/4/2015	JMA EPA18
Diethyl ether	<10	<10	<10	<10	<3.3	10		2/4/2015	JMA EPA18
Ethylbenzene	100	103.632	<10	100	24	10		2/4/2015	JMA EPA18
Freon 141B	<10	<10	<10	<10	<2.1	10		2/4/2015	JMA EPA18
m,p-Xylene	380	381.249	<20	380	88	20		2/4/2015	JMA EPA18
Methyl tert-butyl ether	<10	<10	<10	<10	<2.8	10		2/4/2015	JMA EPA18
Methylene chloride	<10	<10	<10	<10	<2.9	10		2/4/2015	JMA EPA18
n-Heptane	2700	2073.66	665.921	2700	670	100	(a)	2/4/2015	JMA EPA18
n-Hexane	10000	6254.96	4143.06	10000	3000	100	(a)	2/4/2015	JMA EPA18
Naphthalene	<10	<10	<10	<10	<1.9	10		2/4/2015	JMA EPA18
o-Xylene	67	67.476	<10	67	16	10		2/4/2015	JMA EPA18
Tetrachloroethene	<10	<10	<10	<10	<1.5	10		2/4/2015	JMA EPA18
Toluene	1200	1100.09	59.598	1200	310	10		2/4/2015	JMA EPA18
trans-1,2-Dichloroethene	<10	<10	<10	<10	<2.5	10		2/4/2015	JMA EPA18
Trichloroethene	<10	<10	<10	<10	<1.9	10		2/4/2015	JMA EPA18
TRPH (Based on Benzene)	37000	25547.2	11684.8	37000	12000	100	(a)	2/4/2015	JMA EPA18
Vinyl chloride	<10	<10	<10	<10	<3.9	10		2/4/2015	JMA EPA18

Qualifiers:

< Less than the indicated limit of detection (LOD)

H Holding time for preparation or analysis

B Analyte detected in the associated Method Blank

(a) Analysis indicates possible breakthrough; back section result is greater than

10 % of the front section result.

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Arcadis-Atlanta

Work Order Number 1501N84

Checklist completed by Josana Pacurar Signature Date 1/30/15

Carrier name: FedEx UPS Courier Client US Mail Other

Shipping container/cooler in good condition? Yes No Not Present
Custody seals intact on shipping container/cooler? Yes No Not Present
Custody seals intact on sample bottles? Yes No Not Present
Container/Temp Blank temperature in compliance? ^{IP 1/30} ~~(0°-6°C)*~~ Yes No

Cooler #1 Amb Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler #5 _____ Cooler #6 _____

Chain of custody present? Yes No
Chain of custody signed when relinquished and received? Yes No
Chain of custody agrees with sample labels? Yes No
Samples in proper container/bottle? Yes No
Sample containers intact? Yes No
Sufficient sample volume for indicated test? Yes No
All samples received within holding time? Yes No
Was TAT marked on the COC? Yes No
Proceed with Standard TAT as per project history? Yes No Not Applicable
Water - VOA vials have zero headspace? No VOA vials submitted Yes No
Water - pH acceptable upon receipt? Yes No Not Applicable

Adjusted? _____ Checked by _____

Sample Condition: Good Other(Explain) _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes No

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

Client: Arcadis
 Project Name: Lafarge Point Marking
 Lab Order: 1501N84

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1501N84-001A	SVE ONLY Z3+4 (012915)	1/29/2015 11:03:00AM	Air	Aromatic Volatiles in Air		1/30/2015 12:51:20 PM	02/04/2015
1501N84-001A	SVE ONLY Z3+4 (012915)	1/29/2015 11:03:00AM	Air	Aromatic Volatiles in Air		1/30/2015 12:51:20 PM	02/05/2015
1501N84-001A	SVE ONLY Z3+4 (012915)	1/29/2015 11:03:00AM	Air	Chlorinated Volatiles in Air		1/30/2015 12:51:20 PM	02/04/2015
1501N84-001A	SVE ONLY Z3+4 (012915)	1/29/2015 11:03:00AM	Air	Volatile Hydrocarbons in Air		1/30/2015 12:51:20 PM	02/04/2015
1501N84-002A	AS/SVE Z300 (012915)	1/29/2015 3:15:00PM	Air	Aromatic Volatiles in Air		1/30/2015 12:51:20 PM	02/04/2015
1501N84-002A	AS/SVE Z300 (012915)	1/29/2015 3:15:00PM	Air	Aromatic Volatiles in Air		1/30/2015 12:51:20 PM	02/05/2015
1501N84-002A	AS/SVE Z300 (012915)	1/29/2015 3:15:00PM	Air	Chlorinated Volatiles in Air		1/30/2015 12:51:20 PM	02/04/2015
1501N84-002A	AS/SVE Z300 (012915)	1/29/2015 3:15:00PM	Air	Volatile Hydrocarbons in Air		1/30/2015 12:51:20 PM	02/04/2015
1501N84-003A	AS/SVE Z400 (012915)	1/29/2015 7:37:00PM	Air	Aromatic Volatiles in Air		1/30/2015 12:51:20 PM	02/04/2015
1501N84-003A	AS/SVE Z400 (012915)	1/29/2015 7:37:00PM	Air	Aromatic Volatiles in Air		1/30/2015 12:51:20 PM	02/05/2015
1501N84-003A	AS/SVE Z400 (012915)	1/29/2015 7:37:00PM	Air	Chlorinated Volatiles in Air		1/30/2015 12:51:20 PM	02/04/2015
1501N84-003A	AS/SVE Z400 (012915)	1/29/2015 7:37:00PM	Air	Volatile Hydrocarbons in Air		1/30/2015 12:51:20 PM	02/04/2015

Client: Arcadis
Project Name: Lafarge Point Marking
Workorder: 1501N84

ANALYTICAL QC SUMMARY REPORT

BatchID: 202464

Sample ID: MB-202464	Client ID:	Units: ug, Total	Prep Date: 01/30/2015	Run No: 285121							
SampleType: MBLK	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 202464	Analysis Date: 02/03/2015	Seq No: 6047453							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2-Butanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	10									
Diethyl ether	BRL	10									
n-Heptane	BRL	10									
n-Hexane	BRL	10									

Sample ID: MB-202464	Client ID:	Units: ug, Total	Prep Date: 01/30/2015	Run No: 285122							
SampleType: MBLK	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 202464	Analysis Date: 02/03/2015	Seq No: 6047460							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene	BRL	10									
Ethylbenzene	BRL	10									
m,p-Xylene	BRL	20									
Methyl tert-butyl ether	BRL	10									
Naphthalene	BRL	10									
o-Xylene	BRL	10									
Toluene	BRL	10									
TRPH (Based on Benzene)	BRL	100									

Sample ID: MB-202464	Client ID:	Units: ug, Total	Prep Date: 01/30/2015	Run No: 285120							
SampleType: MBLK	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 202464	Analysis Date: 02/03/2015	Seq No: 6047470							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	BRL	10									
1,1-Dichloroethene	BRL	10									
Carbon tetrachloride	BRL	10									
Chloroform	BRL	10									

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
BRL	Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S Spike Recovery outside limits due to matrix	

Client: Arcadis
Project Name: Lafarge Point Marking
Workorder: 1501N84

ANALYTICAL QC SUMMARY REPORT

BatchID: 202464

Sample ID: MB-202464	Client ID:	Units: ug, Total	Prep Date: 01/30/2015	Run No: 285120							
SampleType: MBLK	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 202464	Analysis Date: 02/03/2015	Seq No: 6047470							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

cis-1,2-Dichloroethene
 Freon 141B
 Methylene chloride
 Tetrachloroethene
 trans-1,2-Dichloroethene
 Trichloroethene
 Vinyl chloride

BRL
 BRL
 BRL
 BRL
 BRL
 BRL
 BRL

10
 10
 10
 10
 10
 10
 10

Sample ID: LCS-202464	Client ID:	Units: ug, Total	Prep Date: 01/30/2015	Run No: 285121							
SampleType: LCS	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 202464	Analysis Date: 02/03/2015	Seq No: 6047454							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2-Butanone
 4-Methyl-2-pentanone
 Acetone
 Diethyl ether
 n-Heptane
 n-Hexane

90.81
 96.22
 80.53
 99.47
 103.5
 106.2

10
 10
 100.0
 100.0
 100.0
 100.0
 100.0

90.8
 96.2
 80.5
 99.5
 103
 106

82
 85
 66.3
 85
 85
 85

120
 120
 120
 120
 120
 121

Sample ID: LCS-202464	Client ID:	Units: ug, Total	Prep Date: 01/30/2015	Run No: 285122							
SampleType: LCS	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 202464	Analysis Date: 02/03/2015	Seq No: 6047461							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene
 Ethylbenzene
 m,p-Xylene
 Methyl tert-butyl ether
 Naphthalene

102.7
 104.0
 204.5
 86.12
 41.02

10
 10
 20
 100.0
 100.0

103
 104
 102
 86.1
 41.0

80
 80
 80
 72.7
 36.8

119
 122
 120
 120
 100

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
BRL	Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S Spike Recovery outside limits due to matrix	

Client: Arcadis
 Project Name: Lafarge Point Marking
 Workorder: 1501N84

ANALYTICAL QC SUMMARY REPORT

BatchID: 202464

Sample ID: LCS-202464	Client ID:	Units: ug, Total	Prep Date: 01/30/2015	Run No: 285122							
SampleType: LCS	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 202464	Analysis Date: 02/03/2015	Seq No: 6047461							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

o-Xylene	95.97	10	100.0		96.0	80	115				
Toluene	101.9	10	100.0		102	80	118				

Sample ID: LCS-202464	Client ID:	Units: ug, Total	Prep Date: 01/30/2015	Run No: 285120							
SampleType: LCS	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 202464	Analysis Date: 02/03/2015	Seq No: 6047471							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	102.9	10	100.0		103	85	118				
Carbon tetrachloride	104.7	10	100.0		105	85	121				
Chloroform	99.46	10	100.0		99.5	85	120				
Methylene chloride	102.8	10	100.0		103	85	120				
Tetrachloroethene	100.9	10	100.0		101	85	117				
Trichloroethene	105.1	10	100.0		105	85	120				

Sample ID: LCS-202464-2	Client ID:	Units: ug, Total	Prep Date: 01/30/2015	Run No: 285120							
SampleType: LCS	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 202464	Analysis Date: 02/04/2015	Seq No: 6047473							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	97.04	10	100.0		97.0	85	120				
cis-1,2-Dichloroethene	100.4	10	100.0		100	85	117				
trans-1,2-Dichloroethene	101.8	10	100.0		102	85	120				

Sample ID: LCS-202464-3	Client ID:	Units: ug, Total	Prep Date: 01/30/2015	Run No: 285120							
SampleType: LCS	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 202464	Analysis Date: 02/04/2015	Seq No: 6047475							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Vinyl chloride	20.36	10	25.00		81.4	62.3	126				
----------------	-------	----	-------	--	------	------	-----	--	--	--	--

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
BRL	Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S Spike Recovery outside limits due to matrix	

Client: Arcadis
 Project Name: Lafarge Point Marking
 Workorder: 1501N84

ANALYTICAL QC SUMMARY REPORT

BatchID: 202464

Sample ID: LCS D-202464	Client ID:	Units: ug, Total	Prep Date: 01/30/2015	Run No: 285121							
SampleType: LCS D	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 202464	Analysis Date: 02/04/2015	Seq No: 6047455							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2-Butanone	89.46	10	100.0		89.5	82	120	90.81	1.49	15	
4-Methyl-2-pentanone	94.93	10	100.0		94.9	85	120	96.22	1.35	15	
Acetone	78.97	10	100.0		79.0	66.3	120	80.53	1.96	15	
Diethyl ether	98.59	10	100.0		98.6	85	120	99.47	0.893	15	
n-Heptane	102.5	10	100.0		102	85	120	103.5	0.949	15	
n-Hexane	104.9	10	100.0		105	85	121	106.2	1.26	15	

Sample ID: LCS D-202464	Client ID:	Units: ug, Total	Prep Date: 01/30/2015	Run No: 285122							
SampleType: LCS D	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 202464	Analysis Date: 02/04/2015	Seq No: 6047462							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene	101.7	10	100.0		102	80	119	102.7	0.954	15	
Ethylbenzene	102.1	10	100.0		102	80	122	104.0	1.81	15	
m,p-Xylene	201.2	20	200.0		101	80	120	204.5	1.65	15	
Methyl tert-butyl ether	84.74	10	100.0		84.7	72.7	120	86.12	1.61	15	
Naphthalene	41.72	10	100.0		41.7	36.8	100	41.02	1.68	15	
o-Xylene	94.36	10	100.0		94.4	80	115	95.97	1.69	15	
Toluene	100.6	10	100.0		101	80	118	101.9	1.29	15	

Sample ID: LCS D-202464	Client ID:	Units: ug, Total	Prep Date: 01/30/2015	Run No: 285120							
SampleType: LCS D	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 202464	Analysis Date: 02/04/2015	Seq No: 6047472							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	101.8	10	100.0		102	85	118	102.9	1.07	15	
Carbon tetrachloride	103.3	10	100.0		103	85	121	104.7	1.26	15	
Chloroform	98.49	10	100.0		98.5	85	120	99.46	0.977	15	
Methylene chloride	100.9	10	100.0		101	85	120	102.8	1.89	15	
Tetrachloroethene	99.98	10	100.0		100.0	85	117	100.9	0.940	15	

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Arcadis
 Project Name: Lafarge Point Marking
 Workorder: 1501N84

ANALYTICAL QC SUMMARY REPORT

BatchID: 202464

Sample ID: LCSD-202464	Client ID:	Units: ug, Total	Prep Date: 01/30/2015	Run No: 285120							
SampleType: LCSD	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 202464	Analysis Date: 02/04/2015	Seq No: 6047472							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Trichloroethene

104.3

10

100.0

104

85

120

105.1

0.741

15

Sample ID: LCSD-202464-2	Client ID:	Units: ug, Total	Prep Date: 01/30/2015	Run No: 285120							
SampleType: LCSD	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 202464	Analysis Date: 02/04/2015	Seq No: 6047474							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene

99.81

10

100.0

99.8

85

120

97.04

2.82

15

cis-1,2-Dichloroethene

104.6

10

100.0

105

85

117

100.4

4.12

15

trans-1,2-Dichloroethene

104.9

10

100.0

105

85

120

101.8

3.05

15

Sample ID: LCSD-202464-3	Client ID:	Units: ug, Total	Prep Date: 01/30/2015	Run No: 285120							
SampleType: LCSD	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 202464	Analysis Date: 02/04/2015	Seq No: 6047476							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Vinyl chloride

19.84

10

25.00

79.3

62.3

126

20.36

2.61

19.2

Qualifiers: > Greater than Result value
 BRL Below reporting limit
 J Estimated value detected below Reporting Limit
 Rpt Lim Reporting Limit

< Less than Result value
 E Estimated (value above quantitation range)
 N Analyte not NELAC certified
 S Spike Recovery outside limits due to matrix

B Analyte detected in the associated method blank
 H Holding times for preparation or analysis exceeded
 R RPD outside limits due to matrix



March 03, 2015

Greg Sitomer
Arcadis
1000 Cobb Place Blvd., Bldg. 500-A
Kennesaw GA 30144

TEL: (770) 431-8666
FAX: (770) 435-2666

RE: Lafarge Paint Marking

Dear Greg Sitomer:

Order No: 1502J69

Analytical Environmental Services, Inc. received 2 samples on 2/24/2015 3:19:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/14-06/30/15.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/15.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Chantelle Kanhai
Project Manager



ANALYTICAL ENVIRONMENTAL SERVICES, INC

3080 Presidential Drive, Atlanta GA 30340-3704

TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1502JG9

Date: 2-23-15 Page 1 of 1

COMPANY: <i>Arcadis</i>		ADDRESS: <i>1000 Cobb Place Blvd Building 500A Kennesaw GA 30144</i>				ANALYSIS REQUESTED										Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.		No # of Containers																	
PHONE: <i>770 428 9009</i>		FAX: <i>770 428 4004</i>				<table border="1" style="width:100%; height:100%; text-align: center;"> <tr><td colspan="10">PRESERVATION (See codes)</td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </table>													PRESERVATION (See codes)																
PRESERVATION (See codes)																																			
SAMPLED BY: <i>Ivan Jenkins</i>		SIGNATURE: <i>Ivan Jenkins</i>				<table border="1" style="width:100%; height:100%; text-align: center;"> <tr><td colspan="10">REMARKS</td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </table>										REMARKS																			
REMARKS																																			
#	SAMPLE ID	SAMPLED		Grab	Composite	Matrix (See codes)											REMARKS	No # of Containers																	
		DATE	TIME																																
1	<i>AS/SVE 2300 (022315)</i>	<i>2-23-15</i>	<i>2027</i>	<i>/</i>		<i>Air</i>	<i>1</i>													<i>2027-time</i>	<i>1</i>														
2	<i>AS/SVE 2400 (022315)</i>	<i>2-23-15</i>	<i>1921</i>	<i>/</i>		<i>Air</i>	<i>1</i>													<i>1921-time</i>	<i>1</i>														
3																																			
4																																			
5																																			
6																																			
7																																			
8																																			
9																																			
10																																			
11																																			
12																																			
13																																			
14																																			

RELINQUISHED BY <i>Ivan Jenkins</i>		DATE/TIME <i>2-24-15 1519</i>	RECEIVED BY <i>Catoya Reeves</i>	DATE/TIME <i>2/24/15 3:19p</i>	PROJECT INFORMATION					RECEIPT	
1: <i>Ivan Jenkins</i>		2: <i>2-24-15 1519</i>	3: <i>Catoya Reeves</i>		PROJECT NAME: <i>Latarge Point Marking</i>					Total # of Containers <i>2</i>	
2: <i>Ivan Jenkins</i>		3: <i>2-24-15 1519</i>	4: <i>Catoya Reeves</i>		PROJECT #: <i>HT212446.0014.00002</i>					Turnaround Time Request <input checked="" type="radio"/> Standard 5 Business Days	
3: <i>Ivan Jenkins</i>		4: <i>2-24-15 1519</i>	5: <i>Catoya Reeves</i>		SITE ADDRESS: <i>2675 R N Martin St East Point, GA</i>					<input type="radio"/> 2 Business Day Rush	
SPECIAL INSTRUCTIONS/COMMENTS:		SHIPMENT METHOD			SEND REPORT TO: <i>gregory.sitomer@arcadis.us.com</i>					<input type="radio"/> Next Business Day Rush	
		OUT VIA: IN VIA:			INVOICE TO: (IF DIFFERENT FROM ABOVE)					<input type="radio"/> Same Day Rush (auth req.)	
		CLIENT <input checked="" type="radio"/> FedEx UPS MAIL COURIER								<input type="radio"/> Other	
		GREYHOUND OTHER			QUOTE #:					STATE PROGRAM (if any):	
					PO#:					E-mail? Y/N; Fax? Y/N	
										DATA PACKAGE: I II III IV	

Analytical Results

for

Arcadis

Date: 5-Mar-15

Workorder: 1502J69

Client Reference: Lafarge Paint Marking

Analyte	Concentration					Limit of Detection (ug)	Qual	Date Analyzed /Analyst	Test Method
	Total (ug)	Front (ug)	Back (ug)	(mg/m3)	(ppm)				
Client ID: AS/SVE 2300 (022315)	Lab ID: 1502J69-001A		Date Sampled: 2/23/2015		Media: Tedlar Bag	Air Vol.(L): 1			
1,1,1-Trichloroethane	<10	<10	<10	<10	<1.8	10	2/26/2015	JMA	EPA18
1,1-Dichloroethene	<10	<10	<10	<10	<2.5	10	2/26/2015	JMA	EPA18
2-Butanone	<10	<10	<10	<10	<3.4	10	2/26/2015	JMA	EPA18
4-Methyl-2-pentanone	<10	<10	<10	<10	<2.4	10	2/26/2015	JMA	EPA18
Acetone	<10	<10	<10	<10	<4.2	10	2/26/2015	JMA	EPA18
Benzene	93	93.068	<10	93	29	10	2/27/2015	JMA	EPA18
Carbon tetrachloride	<10	<10	<10	<10	<1.6	10	2/26/2015	JMA	EPA18
Chloroform	<10	<10	<10	<10	<2.0	10	2/26/2015	JMA	EPA18
cis-1,2-Dichloroethene	50	49.713	<10	50	12	10	2/26/2015	JMA	EPA18
Diethyl ether	<10	<10	<10	<10	<3.3	10	2/26/2015	JMA	EPA18
Ethylbenzene	47	46.912	<10	47	11	10	2/26/2015	JMA	EPA18
Freon 141B	<10	<10	<10	<10	<2.1	10	2/26/2015	JMA	EPA18
m,p-Xylene	180	175.66	<20	180	40	20	2/26/2015	JMA	EPA18
Methyl tert-butyl ether	<10	<10	<10	<10	<2.8	10	2/26/2015	JMA	EPA18
Methylene chloride	<10	<10	<10	<10	<2.9	10	2/26/2015	JMA	EPA18
n-Heptane	830	829.31	<10	830	200	10	2/26/2015	JMA	EPA18
n-Hexane	2400	2417.14	18.571	2400	690	200	2/27/2015	JMA	EPA18
Naphthalene	<10	<10	<10	<10	<1.9	10	2/26/2015	JMA	EPA18
o-Xylene	36	35.682	<10	36	8.2	10	2/26/2015	JMA	EPA18
Tetrachloroethene	<10	<10	<10	<10	<1.5	10	2/26/2015	JMA	EPA18
Toluene	1000	1042.23	<10	1000	280	10	2/26/2015	JMA	EPA18
trans-1,2-Dichloroethene	<10	<10	<10	<10	<2.5	10	2/26/2015	JMA	EPA18
Trichloroethene	82	82.284	<10	82	15	10	2/26/2015	JMA	EPA18
TRPH (Based on Benzene)	13000	12527.8	<100	13000	3900	100	2/26/2015	JMA	EPA18
Vinyl chloride	<10	<10	<10	<10	<3.9	10	2/26/2015	JMA	EPA18

Client ID: AS/SVE 2400 (022315)	Lab ID: 1502J69-002A		Date Sampled: 2/23/2015		Media: Tedlar Bag	Air Vol.(L): 1			
1,1,1-Trichloroethane	<10	<10	<10	<10	<1.8	10	2/26/2015	JMA	EPA18
1,1-Dichloroethene	<10	<10	<10	<10	<2.5	10	2/26/2015	JMA	EPA18
2-Butanone	<10	<10	<10	<10	<3.4	10	2/26/2015	JMA	EPA18
4-Methyl-2-pentanone	<10	<10	<10	<10	<2.4	10	2/26/2015	JMA	EPA18
Acetone	<10	<10	<10	<10	<4.2	10	2/26/2015	JMA	EPA18
Benzene	110	114.672	<10	110	36	10	2/27/2015	JMA	EPA18
Carbon tetrachloride	<10	<10	<10	<10	<1.6	10	2/26/2015	JMA	EPA18
Chloroform	<10	<10	<10	<10	<2.0	10	2/26/2015	JMA	EPA18
cis-1,2-Dichloroethene	57	39.44	18.054	57	14	10	(a) 2/26/2015	JMA	EPA18
Diethyl ether	<10	<10	<10	<10	<3.3	10	2/26/2015	JMA	EPA18
Ethylbenzene	64	63.7	<10	64	15	10	2/26/2015	JMA	EPA18
Freon 141B	<10	<10	<10	<10	<2.1	10	2/26/2015	JMA	EPA18

Qualifiers:

< Less than the indicated limit of detection (LOD)

H Holding time for preparation or analysis

B Analyte detected in the associated Method Blank

(a) Analysis indicates possible breakthrough; back section result is greater than

10 % of the front section result.

**Analytical Results
for**

Arcadis

Date: 5-Mar-15

Workorder: 1502J69

Client Reference: Lafarge Paint Marking

Analyte	Concentration					Limit of Detection (ug)	Qual	Date Analyzed	/Analyst	Test Method
	Total (ug)	Front (ug)	Back (ug)	(mg/m3)	(ppm)					
m,p-Xylene	250	247.406	<20	250	57	20		2/26/2015	JMA	EPA18
Methyl tert-butyl ether	<10	<10	<10	<10	<2.8	10		2/26/2015	JMA	EPA18
Methylene chloride	<10	<10	<10	<10	<2.9	10		2/26/2015	JMA	EPA18
n-Heptane	1100	1129.75	<10	1100	280	10		2/26/2015	JMA	EPA18
n-Hexane	2900	2871.82	40.344	2900	830	200		2/27/2015	JMA	EPA18
Naphthalene	<10	<10	<10	<10	<1.9	10		2/26/2015	JMA	EPA18
o-Xylene	50	49.768	<10	50	12	10		2/26/2015	JMA	EPA18
Tetrachloroethene	<10	<10	<10	<10	<1.5	10		2/26/2015	JMA	EPA18
Toluene	1200	1176.17	<10	1200	310	10		2/26/2015	JMA	EPA18
trans-1,2-Dichloroethene	<10	<10	<10	<10	<2.5	10		2/26/2015	JMA	EPA18
Trichloroethene	89	88.522	<10	89	16	10		2/26/2015	JMA	EPA18
TRPH (Based on Benzene)	15000	15220.8	<100	15000	4800	100		2/26/2015	JMA	EPA18
Vinyl chloride	<10	<10	<10	<10	<3.9	10		2/26/2015	JMA	EPA18

Qualifiers:

< Less than the indicated limit of detection (LOD)

H Holding time for preparation or analysis

B Analyte detected in the associated Method Blank

(a) Analysis indicates possible breakthrough; back section result is greater than

10 % of the front section result.

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Arcadis-Atlanta

Work Order Number 1502J69

Checklist completed by Katie Forman 2/24/15
Signature Date

Carrier name: FedEx UPS Courier Client US Mail Other

Shipping container/cooler in good condition? Yes No Not Present

Custody seals intact on shipping container/cooler? Yes No Not Present

Custody seals intact on sample bottles? Yes No Not Present

Container/Temp Blank temperature in compliance? ^{VF 2/24} (0°-6°C)* Yes No

Cooler #1 Amb Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler #5 _____ Cooler #6 _____

Chain of custody present? Yes No

Chain of custody signed when relinquished and received? Yes No

Chain of custody agrees with sample labels? Yes No

Samples in proper container/bottle? Yes No

Sample containers intact? Yes No

Sufficient sample volume for indicated test? Yes No

All samples received within holding time? Yes No

Was TAT marked on the COC? Yes No

Proceed with Standard TAT as per project history? Yes No Not Applicable

Water - VOA vials have zero headspace? No VOA vials submitted Yes No

Water - pH acceptable upon receipt? Yes No Not Applicable

Adjusted? _____ Checked by _____
Sample Condition: Good Other(Explain) _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes No

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

Client: Arcadis
 Project Name: Lafarge Paint Marking
 Lab Order: 1502J69

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1502J69-001A	AS/SVE 2300 (022315)	2/23/2015 8:27:00PM	Air	Aromatic Volatiles in Air		2/25/2015 10:01:13 AM	02/26/2015
1502J69-001A	AS/SVE 2300 (022315)	2/23/2015 8:27:00PM	Air	Aromatic Volatiles in Air		2/25/2015 10:01:13 AM	02/27/2015
1502J69-001A	AS/SVE 2300 (022315)	2/23/2015 8:27:00PM	Air	Chlorinated Volatiles in Air		2/25/2015 10:01:13 AM	02/26/2015
1502J69-001A	AS/SVE 2300 (022315)	2/23/2015 8:27:00PM	Air	Volatile Hydrocarbons in Air		2/25/2015 10:01:13 AM	02/26/2015
1502J69-001A	AS/SVE 2300 (022315)	2/23/2015 8:27:00PM	Air	Volatile Hydrocarbons in Air		2/25/2015 10:01:13 AM	02/27/2015
1502J69-002A	AS/SVE 2400 (022315)	2/23/2015 7:21:00PM	Air	Aromatic Volatiles in Air		2/25/2015 10:01:13 AM	02/26/2015
1502J69-002A	AS/SVE 2400 (022315)	2/23/2015 7:21:00PM	Air	Aromatic Volatiles in Air		2/25/2015 10:01:13 AM	02/27/2015
1502J69-002A	AS/SVE 2400 (022315)	2/23/2015 7:21:00PM	Air	Chlorinated Volatiles in Air		2/25/2015 10:01:13 AM	02/26/2015
1502J69-002A	AS/SVE 2400 (022315)	2/23/2015 7:21:00PM	Air	Volatile Hydrocarbons in Air		2/25/2015 10:01:13 AM	02/26/2015
1502J69-002A	AS/SVE 2400 (022315)	2/23/2015 7:21:00PM	Air	Volatile Hydrocarbons in Air		2/25/2015 10:01:13 AM	02/27/2015

Client: Arcadis
Project Name: Lafarge Paint Marking
Workorder: 1502J69

ANALYTICAL QC SUMMARY REPORT

BatchID: 203688

Sample ID: MB-203688	Client ID:	Units: ug, Total	Prep Date: 02/25/2015	Run No: 286809							
SampleType: MBLK	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 203688	Analysis Date: 02/26/2015	Seq No: 6089082							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane
 1,1-Dichloroethene
 Carbon tetrachloride
 Chloroform
 cis-1,2-Dichloroethene
 Freon 141B
 Methylene chloride
 Tetrachloroethene
 trans-1,2-Dichloroethene
 Trichloroethene
 Vinyl chloride

BRL
 BRL

10
 10
 10
 10
 10
 10
 10
 10
 10
 10
 10

Sample ID: MB-203688	Client ID:	Units: ug, Total	Prep Date: 02/25/2015	Run No: 286810							
SampleType: MBLK	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 203688	Analysis Date: 02/26/2015	Seq No: 6089113							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2-Butanone
 4-Methyl-2-pentanone
 Acetone
 Diethyl ether
 n-Heptane
 n-Hexane

BRL
 BRL
 BRL
 BRL
 BRL
 BRL

10
 10
 10
 10
 10
 10

Sample ID: MB-203688	Client ID:	Units: ug, Total	Prep Date: 02/25/2015	Run No: 286811							
SampleType: MBLK	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 203688	Analysis Date: 02/26/2015	Seq No: 6089128							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene

BRL
 10

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Arcadis
 Project Name: Lafarge Paint Marking
 Workorder: 1502J69

ANALYTICAL QC SUMMARY REPORT

BatchID: 203688

Sample ID: MB-203688	Client ID:	Units: ug, Total	Prep Date: 02/25/2015	Run No: 286811							
SampleType: MBLK	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 203688	Analysis Date: 02/26/2015	Seq No: 6089128							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethylbenzene
 m,p-Xylene
 Methyl tert-butyl ether
 Naphthalene
 o-Xylene
 Toluene
 TRPH (Based on Benzene)

BRL
 BRL
 BRL
 BRL
 BRL
 BRL
 BRL

10
 20
 10
 10
 10
 10
 100

Sample ID: LCS-203688	Client ID:	Units: ug, Total	Prep Date: 02/25/2015	Run No: 286809							
SampleType: LCS	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 203688	Analysis Date: 02/26/2015	Seq No: 6089083							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane
 Carbon tetrachloride
 Chloroform
 Methylene chloride
 Tetrachloroethene
 Trichloroethene

104.0
 104.3
 100.8
 102.4
 101.5
 107.0

10
 10
 10
 10
 10
 10

100.0
 100.0
 100.0
 100.0
 100.0
 100.0

104
 104
 101
 102
 101
 107

85
 85
 85
 85
 85
 85

118
 121
 120
 120
 117
 120

Sample ID: LCS-203688	Client ID:	Units: ug, Total	Prep Date: 02/25/2015	Run No: 286810							
SampleType: LCS	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 203688	Analysis Date: 02/26/2015	Seq No: 6089114							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2-Butanone
 4-Methyl-2-pentanone
 Acetone
 Diethyl ether
 n-Heptane

89.06
 94.99
 78.20
 99.40
 104.2

10
 10
 10
 10
 10

100.0
 100.0
 100.0
 100.0
 100.0

89.1
 95.0
 78.2
 99.4
 104

82
 85
 66.3
 85
 85

120
 120
 120
 120
 120

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
BRL	Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S Spike Recovery outside limits due to matrix	

Client: Arcadis
Project Name: Lafarge Paint Marking
Workorder: 1502J69

ANALYTICAL QC SUMMARY REPORT

BatchID: 203688

Sample ID: LCS-203688	Client ID:	Units: ug, Total	Prep Date: 02/25/2015	Run No: 286810							
SampleType: LCS	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 203688	Analysis Date: 02/26/2015	Seq No: 6089114							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

n-Hexane 106.4 10 100.0 106 85 121

Sample ID: LCS-203688	Client ID:	Units: ug, Total	Prep Date: 02/25/2015	Run No: 286811							
SampleType: LCS	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 203688	Analysis Date: 02/26/2015	Seq No: 6089129							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene 103.8 10 100.0 104 80 119
 Ethylbenzene 104.3 10 100.0 104 80 122
 m,p-Xylene 205.5 20 200.0 103 80 120
 Methyl tert-butyl ether 86.21 10 100.0 86.2 72.7 120
 Naphthalene 45.17 10 100.0 45.2 36.8 100
 o-Xylene 96.32 10 100.0 96.3 80 115
 Toluene 102.7 10 100.0 103 80 118

Sample ID: LCS-203688-2	Client ID:	Units: ug, Total	Prep Date: 02/25/2015	Run No: 286809							
SampleType: LCS	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 203688	Analysis Date: 02/26/2015	Seq No: 6089085							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene 97.09 10 100.0 97.1 85 120
 cis-1,2-Dichloroethene 102.1 10 100.0 102 85 117
 trans-1,2-Dichloroethene 101.7 10 100.0 102 85 120

Sample ID: LCS-203688-3	Client ID:	Units: ug, Total	Prep Date: 02/25/2015	Run No: 286809							
SampleType: LCS	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 203688	Analysis Date: 02/26/2015	Seq No: 6089087							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Vinyl chloride 20.13 10 25.00 80.5 62.3 126

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Arcadis
Project Name: Lafarge Paint Marking
Workorder: 1502J69

ANALYTICAL QC SUMMARY REPORT

BatchID: 203688

Sample ID: LCS D-203688	Client ID:	Units: ug, Total	Prep Date: 02/25/2015	Run No: 286809							
SampleType: LCS D	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 203688	Analysis Date: 02/26/2015	Seq No: 6089084							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	104.8	10	100.0		105	85	118	104.0	0.847	15	
Carbon tetrachloride	106.0	10	100.0		106	85	121	104.3	1.59	15	
Chloroform	101.2	10	100.0		101	85	120	100.8	0.339	15	
Methylene chloride	103.4	10	100.0		103	85	120	102.4	0.970	15	
Tetrachloroethene	102.7	10	100.0		103	85	117	101.5	1.17	15	
Trichloroethene	108.0	10	100.0		108	85	120	107.0	0.994	15	

Sample ID: LCS D-203688	Client ID:	Units: ug, Total	Prep Date: 02/25/2015	Run No: 286810							
SampleType: LCS D	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 203688	Analysis Date: 02/26/2015	Seq No: 6089115							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2-Butanone	90.38	10	100.0		90.4	82	120	89.06	1.47	15	
4-Methyl-2-pentanone	96.54	10	100.0		96.5	85	120	94.99	1.62	15	
Acetone	80.12	10	100.0		80.1	66.3	120	78.20	2.43	15	
Diethyl ether	100.6	10	100.0		101	85	120	99.40	1.17	15	
n-Heptane	105.0	10	100.0		105	85	120	104.2	0.792	15	
n-Hexane	107.2	10	100.0		107	85	121	106.4	0.802	15	

Sample ID: LCS D-203688	Client ID:	Units: ug, Total	Prep Date: 02/25/2015	Run No: 286811							
SampleType: LCS D	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 203688	Analysis Date: 02/26/2015	Seq No: 6089130							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene	104.8	10	100.0		105	80	119	103.8	0.922	15	
Ethylbenzene	105.4	10	100.0		105	80	122	104.3	1.06	15	
m,p-Xylene	207.8	20	200.0		104	80	120	205.5	1.09	15	
Methyl tert-butyl ether	87.12	10	100.0		87.1	72.7	120	86.21	1.05	15	
Naphthalene	47.66	10	100.0		47.7	36.8	100	45.17	5.35	15	
o-Xylene	97.52	10	100.0		97.5	80	115	96.32	1.24	15	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
 Project Name: Lafarge Paint Marking
 Workorder: 1502J69

ANALYTICAL QC SUMMARY REPORT

BatchID: 203688

Sample ID: LCSD-203688	Client ID:	Units: ug, Total	Prep Date: 02/25/2015	Run No: 286811							
SampleType: LCSD	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 203688	Analysis Date: 02/26/2015	Seq No: 6089130							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Toluene	103.7	10	100.0		104	80	118	102.7	0.994	15	
---------	-------	----	-------	--	-----	----	-----	-------	-------	----	--

Sample ID: LCSD-203688-2	Client ID:	Units: ug, Total	Prep Date: 02/25/2015	Run No: 286809							
SampleType: LCSD	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 203688	Analysis Date: 02/26/2015	Seq No: 6089086							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	98.09	10	100.0		98.1	85	120	97.09	1.02	15	
cis-1,2-Dichloroethene	102.6	10	100.0		103	85	117	102.1	0.419	15	
trans-1,2-Dichloroethene	102.8	10	100.0		103	85	120	101.7	1.15	15	

Sample ID: LCSD-203688-3	Client ID:	Units: ug, Total	Prep Date: 02/25/2015	Run No: 286809							
SampleType: LCSD	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 203688	Analysis Date: 02/26/2015	Seq No: 6089088							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Vinyl chloride	18.71	10	25.00		74.8	62.3	126	20.13	7.35	19.2	
----------------	-------	----	-------	--	------	------	-----	-------	------	------	--

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

April 07, 2015

Greg Sitomer
Arcadis
1000 Cobb Place Blvd., Bldg. 500-A
Kennesaw GA 30144

TEL: (770) 431-8666
FAX: (770) 435-2666

RE: Lafarge Paint Marking

Dear Greg Sitomer:

Order No: 1503P41

Analytical Environmental Services, Inc. received 3 samples on 3/27/2015 9:52:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/14-06/30/15.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/15.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Chantelle Kanhai
Project Manager

Analytical Results

for

Arcadis

Date: 7-Apr-15

Workorder: 1503P41

Client Reference: Lafarge Paint Marking

Analyte	Concentration					Limit of Detection (ug)	Qual	Date Analyzed /Analyst	Test Method
	Total (ug)	Front (ug)	Back (ug)	(mg/m3)	(ppm)				
Client ID: AS/SVE Z300 (032615)	Lab ID: 1503P41-001A		Date Sampled: 3/26/2015		Media: Tedlar Bag	Air Vol.(L): 1			
1,1,1-Trichloroethane	<10	<10	<10	<10	<1.8	10		3/30/2015	JMA EPA18
1,1-Dichloroethene	<10	<10	<10	<10	<2.5	10		3/30/2015	JMA EPA18
2-Butanone	<10	<10	<10	<10	<3.4	10		3/30/2015	JMA EPA18
4-Methyl-2-pentanone	<10	<10	<10	<10	<2.4	10		3/30/2015	JMA EPA18
Acetone	<10	<10	<10	<10	<4.2	10		3/30/2015	JMA EPA18
Benzene	260	210.063	52.003	260	82	10	(a)	4/2/2015	JMA EPA18
Carbon tetrachloride	<10	<10	<10	<10	<1.6	10		3/30/2015	JMA EPA18
Chloroform	<10	<10	<10	<10	<2.0	10		3/30/2015	JMA EPA18
cis-1,2-Dichloroethene	210	96.86	112.961	210	53	10	(a)	3/30/2015	JMA EPA18
Diethyl ether	<10	<10	<10	<10	<3.3	10		3/30/2015	JMA EPA18
Ethylbenzene	75	74.843	<10	75	17	10		3/30/2015	JMA EPA18
Freon 141B	<10	<10	<10	<10	<2.1	10		3/30/2015	JMA EPA18
m,p-Xylene	270	267.899	<20	270	62	20		3/30/2015	JMA EPA18
Methyl tert-butyl ether	<10	<10	<10	<10	<2.8	10		3/30/2015	JMA EPA18
Methylene chloride	<10	<10	<10	<10	<2.9	10		3/30/2015	JMA EPA18
n-Heptane	1600	1546.49	87.279	1600	400	10		3/30/2015	JMA EPA18
n-Hexane	6100	3890.96	2231.41	6100	1700	100	(a)	3/31/2015	JMA EPA18
Naphthalene	<10	<10	<10	<10	<1.9	10		3/30/2015	JMA EPA18
o-Xylene	56	55.597	<10	56	13	10		3/30/2015	JMA EPA18
Tetrachloroethene	<10	<10	<10	<10	<1.5	10		3/30/2015	JMA EPA18
Toluene	2300	2235.13	15.816	2300	600	100		3/31/2015	JMA EPA18
trans-1,2-Dichloroethene	<10	<10	<10	<10	<2.5	10		3/30/2015	JMA EPA18
Trichloroethene	450	355.114	92.302	450	83	10	(a)	3/30/2015	JMA EPA18
TRPH (Based on Benzene)	29000	21323.4	7861.62	29000	9100	100	(a)	3/30/2015	JMA EPA18
Vinyl chloride	<10	<10	<10	<10	<3.9	10		3/30/2015	JMA EPA18

Client ID: AS/SVE Z400 (032615)	Lab ID: 1503P41-002A		Date Sampled: 3/26/2015		Media: Tedlar Bag	Air Vol.(L): 1			
1,1,1-Trichloroethane	<10	<10	<10	<10	<1.8	10		3/30/2015	JMA EPA18
1,1-Dichloroethene	<10	<10	<10	<10	<2.5	10		3/30/2015	JMA EPA18
2-Butanone	<10	<10	<10	<10	<3.4	10		3/30/2015	JMA EPA18
4-Methyl-2-pentanone	<10	<10	<10	<10	<2.4	10		3/30/2015	JMA EPA18
Acetone	<10	<10	<10	<10	<4.2	10		3/30/2015	JMA EPA18
Benzene	92	91.778	<10	92	29	10		4/2/2015	JMA EPA18
Carbon tetrachloride	<10	<10	<10	<10	<1.6	10		3/30/2015	JMA EPA18
Chloroform	<10	<10	<10	<10	<2.0	10		3/30/2015	JMA EPA18
cis-1,2-Dichloroethene	42	42.153	<10	42	11	10		3/30/2015	JMA EPA18
Diethyl ether	<10	<10	<10	<10	<3.3	10		3/30/2015	JMA EPA18
Ethylbenzene	85	84.502	<10	85	20	10		3/30/2015	JMA EPA18
Freon 141B	<10	<10	<10	<10	<2.1	10		3/30/2015	JMA EPA18

Qualifiers:

< Less than the indicated limit of detection (LOD)

H Holding time for preparation or analysis

B Analyte detected in the associated Method Blank

(a) Analysis indicates possible breakthrough; back section result is greater than

10 % of the front section result.

Analytical Results

for

Arcadis

Date: 7-Apr-15

Workorder: 1503P41

Client Reference: Lafarge Paint Marking

Analyte	Concentration					Limit of Detection (ug)	Qual	Date Analyzed	Test Method
	Total (ug)	Front (ug)	Back (ug)	(mg/m3)	(ppm)				
m,p-Xylene	330	334.731	<20	330	77	20	3/30/2015	JMA	EPA18
Methyl tert-butyl ether	<10	<10	<10	<10	<2.8	10	3/30/2015	JMA	EPA18
Methylene chloride	<10	<10	<10	<10	<2.9	10	3/30/2015	JMA	EPA18
n-Heptane	720	718.467	<10	720	180	10	3/30/2015	JMA	EPA18
n-Hexane	1400	1379.13	<10	1400	390	10	3/30/2015	JMA	EPA18
Naphthalene	<10	<10	<10	<10	<1.9	10	3/30/2015	JMA	EPA18
o-Xylene	76	75.644	<10	76	17	10	3/30/2015	JMA	EPA18
Tetrachloroethene	<10	<10	<10	<10	<1.5	10	3/30/2015	JMA	EPA18
Toluene	1200	1228.33	<10	1200	330	10	3/30/2015	JMA	EPA18
trans-1,2-Dichloroethene	<10	<10	<10	<10	<2.5	10	3/30/2015	JMA	EPA18
Trichloroethene	160	158.583	<10	160	30	10	3/30/2015	JMA	EPA18
TRPH (Based on Benzene)	11000	11270.5	<100	11000	3500	100	3/30/2015	JMA	EPA18
Vinyl chloride	<10	<10	<10	<10	<3.9	10	3/30/2015	JMA	EPA18

Client ID:	AS/SVE EFF (032615)	Lab ID:	1503P41-003A	Date Sampled:	3/26/2015	Media:	Tedlar Bag	Air Vol.(L):	1
1,1,1-Trichloroethane	<10	<10	<10	<10	<1.8	10	3/30/2015	JMA	EPA18
1,1-Dichloroethene	<10	<10	<10	<10	<2.5	10	3/30/2015	JMA	EPA18
2-Butanone	<10	<10	<10	<10	<3.4	10	3/30/2015	JMA	EPA18
4-Methyl-2-pentanone	<10	<10	<10	<10	<2.4	10	3/30/2015	JMA	EPA18
Acetone	<10	<10	<10	<10	<4.2	10	3/30/2015	JMA	EPA18
Benzene	<10	<10	<10	<10	<3.1	10	3/30/2015	JMA	EPA18
Carbon tetrachloride	<10	<10	<10	<10	<1.6	10	3/30/2015	JMA	EPA18
Chloroform	<10	<10	<10	<10	<2.0	10	3/30/2015	JMA	EPA18
cis-1,2-Dichloroethene	<10	<10	<10	<10	<2.5	10	3/30/2015	JMA	EPA18
Diethyl ether	<10	<10	<10	<10	<3.3	10	3/30/2015	JMA	EPA18
Ethylbenzene	<10	<10	<10	<10	<2.3	10	3/30/2015	JMA	EPA18
Freon 141B	<10	<10	<10	<10	<2.1	10	3/30/2015	JMA	EPA18
m,p-Xylene	<20	<20	<20	<20	<4.6	20	3/30/2015	JMA	EPA18
Methyl tert-butyl ether	<10	<10	<10	<10	<2.8	10	3/30/2015	JMA	EPA18
Methylene chloride	<10	<10	<10	<10	<2.9	10	3/30/2015	JMA	EPA18
n-Heptane	<10	<10	<10	<10	<2.4	10	3/30/2015	JMA	EPA18
n-Hexane	<10	<10	<10	<10	<2.8	10	3/30/2015	JMA	EPA18
Naphthalene	<10	<10	<10	<10	<1.9	10	3/30/2015	JMA	EPA18
o-Xylene	<10	<10	<10	<10	<2.3	10	3/30/2015	JMA	EPA18
Tetrachloroethene	<10	<10	<10	<10	<1.5	10	3/30/2015	JMA	EPA18
Toluene	<10	<10	<10	<10	<2.6	10	3/30/2015	JMA	EPA18
trans-1,2-Dichloroethene	<10	<10	<10	<10	<2.5	10	3/30/2015	JMA	EPA18
Trichloroethene	<10	<10	<10	<10	<1.9	10	3/30/2015	JMA	EPA18
TRPH (Based on Benzene)	<100	<100	<100	<100	<31	100	3/30/2015	JMA	EPA18
Vinyl chloride	<10	<10	<10	<10	<3.9	10	3/30/2015	JMA	EPA18

Qualifiers:

< Less than the indicated limit of detection (LOD)

H Holding time for preparation or analysis

B Analyte detected in the associated Method Blank

(a) Analysis indicates possible breakthrough; back section result is greater than

10 % of the front section result.

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Arcady

Work Order Number 1503P41

Checklist completed by [Signature] 3/27/15
Signature Date

Carrier name: FedEx UPS Courier Client US Mail Other

Shipping container/cooler in good condition? Yes No Not Present

Custody seals intact on shipping container/cooler? Yes No Not Present

Custody seals intact on sample bottles? Yes No Not Present

Container/Temp Blank temperature in compliance? ^{TD 3/27/15} (0°-6°C)* Yes No

Cooler #1 Ambient Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler #5 _____ Cooler #6 _____

Chain of custody present? Yes No

Chain of custody signed when relinquished and received? Yes No

Chain of custody agrees with sample labels? Yes No

Samples in proper container/bottle? Yes No

Sample containers intact? Yes No

Sufficient sample volume for indicated test? Yes No

All samples received within holding time? Yes No

Was TAT marked on the COC? Yes No

Proceed with Standard TAT as per project history? Yes No Not Applicable

Water - VOA vials have zero headspace? No VOA vials submitted Yes No

Water - pH acceptable upon receipt? Yes No Not Applicable

Adjusted? _____ Checked by _____

Sample Condition: Good Other(Explain) _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes No

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

Client: Arcadis
 Project Name: Lafarge Paint Marking
 Lab Order: 1503P41

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1503P41-001A	AS/SVE Z300 (032615)	3/26/2015 3:12:00PM	Air	Aromatic Volatiles in Air		3/28/2015 1:42:01 PM	03/30/2015
1503P41-001A	AS/SVE Z300 (032615)	3/26/2015 3:12:00PM	Air	Aromatic Volatiles in Air		3/28/2015 1:42:01 PM	03/31/2015
1503P41-001A	AS/SVE Z300 (032615)	3/26/2015 3:12:00PM	Air	Aromatic Volatiles in Air		3/28/2015 1:42:01 PM	04/02/2015
1503P41-001A	AS/SVE Z300 (032615)	3/26/2015 3:12:00PM	Air	Chlorinated Volatiles in Air		3/28/2015 1:42:01 PM	03/30/2015
1503P41-001A	AS/SVE Z300 (032615)	3/26/2015 3:12:00PM	Air	Volatile Hydrocarbons in Air		3/28/2015 1:42:01 PM	03/30/2015
1503P41-001A	AS/SVE Z300 (032615)	3/26/2015 3:12:00PM	Air	Volatile Hydrocarbons in Air		3/28/2015 1:42:01 PM	03/31/2015
1503P41-002A	AS/SVE Z400 (032615)	3/26/2015 8:32:00PM	Air	Aromatic Volatiles in Air		3/28/2015 1:42:01 PM	03/30/2015
1503P41-002A	AS/SVE Z400 (032615)	3/26/2015 8:32:00PM	Air	Aromatic Volatiles in Air		3/28/2015 1:42:01 PM	04/02/2015
1503P41-002A	AS/SVE Z400 (032615)	3/26/2015 8:32:00PM	Air	Chlorinated Volatiles in Air		3/28/2015 1:42:01 PM	03/30/2015
1503P41-002A	AS/SVE Z400 (032615)	3/26/2015 8:32:00PM	Air	Volatile Hydrocarbons in Air		3/28/2015 1:42:01 PM	03/30/2015
1503P41-003A	AS/SVE EFF (032615)	3/26/2015 3:05:00PM	Air	Aromatic Volatiles in Air		3/28/2015 1:42:01 PM	03/30/2015
1503P41-003A	AS/SVE EFF (032615)	3/26/2015 3:05:00PM	Air	Chlorinated Volatiles in Air		3/28/2015 1:42:01 PM	03/30/2015
1503P41-003A	AS/SVE EFF (032615)	3/26/2015 3:05:00PM	Air	Volatile Hydrocarbons in Air		3/28/2015 1:42:01 PM	03/30/2015

Client: Arcadis
Project Name: Lafarge Paint Marking
Workorder: 1503P41

ANALYTICAL QC SUMMARY REPORT

BatchID: 205207

Sample ID: MB-205207	Client ID:	Units: ug, Total	Prep Date: 03/28/2015	Run No: 288940							
SampleType: MBLK	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 205207	Analysis Date: 03/30/2015	Seq No: 6147718							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	BRL	10									
1,1-Dichloroethene	BRL	10									
Carbon tetrachloride	BRL	10									
Chloroform	BRL	10									
cis-1,2-Dichloroethene	BRL	10									
Freon 141B	BRL	10									
Methylene chloride	BRL	10									
Tetrachloroethene	BRL	10									
trans-1,2-Dichloroethene	BRL	10									
Trichloroethene	BRL	10									
Vinyl chloride	BRL	10									

Sample ID: MB-205207	Client ID:	Units: ug, Total	Prep Date: 03/28/2015	Run No: 288941							
SampleType: MBLK	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 205207	Analysis Date: 03/30/2015	Seq No: 6147745							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2-Butanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	10									
Diethyl ether	BRL	10									
n-Heptane	BRL	10									
n-Hexane	BRL	10									

Sample ID: MB-205207	Client ID:	Units: ug, Total	Prep Date: 03/28/2015	Run No: 288942							
SampleType: MBLK	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 205207	Analysis Date: 03/30/2015	Seq No: 6147780							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene	BRL	10									
---------	-----	----	--	--	--	--	--	--	--	--	--

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Arcadis
 Project Name: Lafarge Paint Marking
 Workorder: 1503P41

ANALYTICAL QC SUMMARY REPORT

BatchID: 205207

Sample ID: MB-205207	Client ID:	Units: ug, Total	Prep Date: 03/28/2015	Run No: 288942							
SampleType: MBLK	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 205207	Analysis Date: 03/30/2015	Seq No: 6147780							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethylbenzene
 m,p-Xylene
 Methyl tert-butyl ether
 Naphthalene
 o-Xylene
 Toluene
 TRPH (Based on Benzene)

BRL
 BRL
 BRL
 BRL
 BRL
 BRL
 BRL

10
 20
 10
 10
 10
 100

Sample ID: LCS-205207	Client ID:	Units: ug, Total	Prep Date: 03/28/2015	Run No: 288940							
SampleType: LCS	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 205207	Analysis Date: 03/30/2015	Seq No: 6147719							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane
 Carbon tetrachloride
 Chloroform
 Methylene chloride
 Tetrachloroethene
 Trichloroethene

101.2
 99.50
 98.04
 101.3
 96.48
 100.6

10
 10
 10
 10
 10
 10

100.0
 100.0
 100.0
 100.0
 100.0
 100.0

101
 99.5
 98.0
 101
 96.5
 101

85
 85
 85
 85
 85
 85

118
 121
 120
 120
 117
 120

Sample ID: LCS-205207	Client ID:	Units: ug, Total	Prep Date: 03/28/2015	Run No: 288941							
SampleType: LCS	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 205207	Analysis Date: 03/30/2015	Seq No: 6147746							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2-Butanone
 4-Methyl-2-pentanone
 Acetone
 Diethyl ether
 n-Heptane

89.50
 94.65
 83.03
 100.2
 103.5

10
 10
 10
 10
 10

100.0
 100.0
 100.0
 100.0
 100.0

89.5
 94.6
 83.0
 100
 104

82
 85
 66.3
 85
 85

120
 120
 120
 120
 120

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
BRL	Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S Spike Recovery outside limits due to matrix	

Client: Arcadis
Project Name: Lafarge Paint Marking
Workorder: 1503P41

ANALYTICAL QC SUMMARY REPORT

BatchID: 205207

Sample ID: LCS-205207	Client ID:	Units: ug, Total	Prep Date: 03/28/2015	Run No: 288941							
SampleType: LCS	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 205207	Analysis Date: 03/30/2015	Seq No: 6147746							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

n-Hexane 106.7 10 100.0 107 85 121

Sample ID: LCS-205207	Client ID:	Units: ug, Total	Prep Date: 03/28/2015	Run No: 288942							
SampleType: LCS	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 205207	Analysis Date: 03/30/2015	Seq No: 6147781							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene 101.9 10 100.0 102 80 119
 Ethylbenzene 100.8 10 100.0 101 80 122
 m,p-Xylene 200.6 20 200.0 100 80 120
 Methyl tert-butyl ether 91.66 10 100.0 91.7 72.7 120
 Naphthalene 42.16 10 100.0 42.2 36.8 100
 o-Xylene 94.35 10 100.0 94.4 80 115
 Toluene 100.0 10 100.0 100 80 118

Sample ID: LCS-205207-2	Client ID:	Units: ug, Total	Prep Date: 03/28/2015	Run No: 288940							
SampleType: LCS	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 205207	Analysis Date: 03/30/2015	Seq No: 6147721							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene 103.1 10 100.0 103 85 120
 cis-1,2-Dichloroethene 106.9 10 100.0 107 85 117
 trans-1,2-Dichloroethene 103.7 10 100.0 104 85 120

Sample ID: LCS-205207-3	Client ID:	Units: ug, Total	Prep Date: 03/28/2015	Run No: 288940							
SampleType: LCS	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 205207	Analysis Date: 03/30/2015	Seq No: 6147723							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Vinyl chloride 22.11 10 25.00 88.4 62.3 126

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Arcadis
Project Name: Lafarge Paint Marking
Workorder: 1503P41

ANALYTICAL QC SUMMARY REPORT**BatchID: 205207**

Sample ID: LCSD-205207	Client ID:	Units: ug, Total	Prep Date: 03/28/2015	Run No: 288940							
SampleType: LCSD	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 205207	Analysis Date: 03/30/2015	Seq No: 6147720							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	103.2	10	100.0		103	85	118	101.2	1.95	15	
Carbon tetrachloride	102.1	10	100.0		102	85	121	99.50	2.59	15	
Chloroform	101.8	10	100.0		102	85	120	98.04	3.76	15	
Methylene chloride	104.3	10	100.0		104	85	120	101.3	2.93	15	
Tetrachloroethene	97.82	10	100.0		97.8	85	117	96.48	1.37	15	
Trichloroethene	102.1	10	100.0		102	85	120	100.6	1.49	15	

Sample ID: LCSD-205207	Client ID:	Units: ug, Total	Prep Date: 03/28/2015	Run No: 288941							
SampleType: LCSD	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 205207	Analysis Date: 03/30/2015	Seq No: 6147747							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2-Butanone	91.53	10	100.0		91.5	82	120	89.50	2.24	15	
4-Methyl-2-pentanone	95.93	10	100.0		95.9	85	120	94.65	1.35	15	
Acetone	84.52	10	100.0		84.5	66.3	120	83.03	1.78	15	
Diethyl ether	103.4	10	100.0		103	85	120	100.2	3.12	15	
n-Heptane	105.0	10	100.0		105	85	120	103.5	1.43	15	
n-Hexane	109.1	10	100.0		109	85	121	106.7	2.20	15	

Sample ID: LCSD-205207	Client ID:	Units: ug, Total	Prep Date: 03/28/2015	Run No: 288942							
SampleType: LCSD	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 205207	Analysis Date: 03/30/2015	Seq No: 6147782							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene	103.5	10	100.0		104	80	119	101.9	1.59	15	
Ethylbenzene	102.5	10	100.0		102	80	122	100.8	1.66	15	
m,p-Xylene	203.5	20	200.0		102	80	120	200.6	1.44	15	
Methyl tert-butyl ether	93.60	10	100.0		93.6	72.7	120	91.66	2.09	15	
Naphthalene	45.27	10	100.0		45.3	36.8	100	42.16	7.11	15	
o-Xylene	95.99	10	100.0		96.0	80	115	94.35	1.72	15	

Qualifiers: > Greater than Result value
 BRL Below reporting limit
 J Estimated value detected below Reporting Limit
 Rpt Lim Reporting Limit

< Less than Result value
 E Estimated (value above quantitation range)
 N Analyte not NELAC certified
 S Spike Recovery outside limits due to matrix

B Analyte detected in the associated method blank
 H Holding times for preparation or analysis exceeded
 R RPD outside limits due to matrix

Client: Arcadis
 Project Name: Lafarge Paint Marking
 Workorder: 1503P41

ANALYTICAL QC SUMMARY REPORT

BatchID: 205207

Sample ID: LCSD-205207	Client ID:	Units: ug, Total	Prep Date: 03/28/2015	Run No: 288942							
SampleType: LCSD	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 205207	Analysis Date: 03/30/2015	Seq No: 6147782							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Toluene	101.6	10	100.0		102	80	118	100.0	1.54	15	
---------	-------	----	-------	--	-----	----	-----	-------	------	----	--

Sample ID: LCSD-205207-2	Client ID:	Units: ug, Total	Prep Date: 03/28/2015	Run No: 288940							
SampleType: LCSD	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 205207	Analysis Date: 03/30/2015	Seq No: 6147722							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	101.2	10	100.0		101	85	120	103.1	1.90	15	
cis-1,2-Dichloroethene	106.0	10	100.0		106	85	117	106.9	0.854	15	
trans-1,2-Dichloroethene	102.4	10	100.0		102	85	120	103.7	1.25	15	

Sample ID: LCSD-205207-3	Client ID:	Units: ug, Total	Prep Date: 03/28/2015	Run No: 288940							
SampleType: LCSD	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 205207	Analysis Date: 03/30/2015	Seq No: 6147724							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Vinyl chloride	20.93	10	25.00		83.7	62.3	126	22.11	5.45	19.2	
----------------	-------	----	-------	--	------	------	-----	-------	------	------	--

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
BRL	Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S Spike Recovery outside limits due to matrix	



October 10, 2013

Peter Cornais
Arcadis
2081 Vista Parkway, Suite 200
West Palm Beach FL 33411

TEL: (850) 445-0829
FAX:

RE: Lafarge EP

Dear Peter Cornais:

Order No: 1310744

Analytical Environmental Services, Inc. received 2 samples on 10/9/2013 8:20:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/13-06/30/14.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/15.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Chantelle Kanhai
Project Manager



ANALYTICAL ENVIRONMENTAL SERVICES, INC

3785 Presidential Parkway, Atlanta GA 30340-3704

TEL: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1310744

Date: 10/17/17 Page 1 of 1

#	SAMPLE ID	DATE/TIME	SAMPLED			Matrix (See codes)	REMARKS
			DATE	TIME	Grab		
1	SUE- INF	10/17/17	17:05	↓	A		
2	SUE- EFF	10/17/17	17:00	↓	A		
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							

RELINQUISHED BY: <u>Mon Naps</u>	DATE/TIME: <u>10/17/17 08:20</u>	RECEIVED BY: <u>[Signature]</u>	DATE/TIME: <u>10/19/17 08:20</u>
----------------------------------	----------------------------------	---------------------------------	----------------------------------

COMPANY: ARCADIS	ADDRESS: <u>1000 Cobb Place Blvd 5000A</u> <u>Kennesaw GA 30144</u>
PHONE: <u>770-745-428-9005</u>	FAX: <u>(770) 30144</u>
SAMPLED BY: <u>Mon Naps</u>	SIGNATURE: <u>[Signature]</u>

ANALYSIS REQUESTED	PROJECT INFORMATION
ANALYSIS REQUESTED: <u>NP</u> PRESERVATION (See codes): <u>NP</u>	PROJECT NAME: <u>Valage EP</u> PROJECT #: <u>14122216</u> SITE ADDRESS: <u>6775 RN Main St</u> <u>East Point, Ga</u> SEND REPORT TO: <u>pete.crowley@arcadis-us.com</u> INVOICE TO: <u>(IF DIFFERENT FROM ABOVE)</u> QUOTE #: <u>PO#:</u>

VISIT our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.	Turnaround Time Request: <input type="radio"/> Standard 5 Business Days <input type="radio"/> 2 Business Day Rush <input checked="" type="radio"/> Next Business Day Rush <input type="radio"/> Same Day Rush (auth req.) <input type="radio"/> Other
STATE PROGRAM (if any): E-mail? Y / N; Fax? Y / N DATA PACKAGE: I II III IV	Total # of Containers: <u>2</u>

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES. SAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMPLETION UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) O = Other (specify) WW = Waste Water
 PRESERVATIVE CODES: H+1 = Hydrochloric acid + ice I = Ice only N = Nitric acid S+1 = Sulfuric acid + ice S/M+1 = Sodium Bisulfate/Methanol + ice NA = None

SHIPMENT METHOD: OUT / IN VIA: CLIENT FedEx UPS MAIL COURIER SHIPMENT METHOD VIA: GREYHOUND OTHER

White Copy - Original, Yellow Copy - Client

Analytical Results

for

Arcadis

Date: 10-Oct-13

Workorder: 1310744

Client Reference: Lafarge EP

Analyte	Concentration					Limit of Detection (ug)	Qual	Date Analyzed /Analyst	Test Method
	Total (ug)	Front (ug)	Back (ug)	(mg/m3)	(ppm)				
Client ID: SVE-INF	Lab ID: 1310744-001A		Date Sampled: 10/8/2013		Media: Tedlar Bag	Air Vol.(L): 1			
1,1,1-Trichloroethane	<10	<10	<10	<10	<1.8	10		10/9/2013	RUF EPA18
1,1-Dichloroethene	<10	<10	<10	<10	<2.5	10		10/9/2013	RUF EPA18
2-Butanone	<10	<10	<10	<10	<3.4	10		10/9/2013	RUF EPA18
4-Methyl-2-pentanone	<10	<10	<10	<10	<2.4	10		10/9/2013	RUF EPA18
Acetone	<10	<10	<10	<10	<4.2	10		10/9/2013	RUF EPA18
Benzene	<10	<10	<10	<10	<3.1	10		10/9/2013	RUF EPA18
Carbon tetrachloride	<10	<10	<10	<10	<1.6	10		10/9/2013	RUF EPA18
Chloroform	<10	<10	<10	<10	<2.0	10		10/9/2013	RUF EPA18
cis-1,2-Dichloroethene	200	204.188	<10	200	52	10		10/9/2013	RUF EPA18
Diethyl ether	<10	<10	<10	<10	<3.3	10		10/9/2013	RUF EPA18
Ethylbenzene	120	118.281	<10	120	27	10		10/9/2013	RUF EPA18
Freon 141B	<10	<10	<10	<10	<2.1	10		10/9/2013	RUF EPA18
m,p-Xylene	340	342.475	<20	340	79	20		10/9/2013	RUF EPA18
Methyl tert-butyl ether	<10	<10	<10	<10	<2.8	10		10/9/2013	RUF EPA18
Methylene chloride	<10	<10	<10	<10	<2.9	10		10/9/2013	RUF EPA18
n-Heptane	2400	2036.16	351.815	2400	580	100	(a)	10/10/2013	RUF EPA18
n-Hexane	9500	5651.15	3853.64	9500	2700	100	(a)	10/10/2013	RUF EPA18
Naphthalene	<10	<10	<10	<10	<1.9	10		10/9/2013	RUF EPA18
o-Xylene	55	55.467	<10	55	13	10		10/9/2013	RUF EPA18
Tetrachloroethene	<10	<10	<10	<10	<1.5	10		10/9/2013	RUF EPA18
Toluene	2500	2431.78	33.55	2500	650	100		10/10/2013	RUF EPA18
trans-1,2-Dichloroethene	<10	<10	<10	<10	<2.5	10		10/9/2013	RUF EPA18
Trichloroethene	530	526.386	<10	530	98	10		10/9/2013	RUF EPA18
TRPH (Based on Benzene)	38000	25909.2	11609	38000	12000	100	(a)	10/9/2013	RUF EPA18
Vinyl chloride	<10	<10	<10	<10	<3.9	10		10/9/2013	RUF EPA18

Client ID: SVE-EFF	Lab ID: 1310744-002A		Date Sampled: 10/8/2013		Media: Tedlar Bag	Air Vol.(L): 1			
1,1,1-Trichloroethane	<10	<10	<10	<10	<1.8	10		10/9/2013	RUF EPA18
1,1-Dichloroethene	<10	<10	<10	<10	<2.5	10		10/9/2013	RUF EPA18
2-Butanone	<10	<10	<10	<10	<3.4	10		10/9/2013	RUF EPA18
4-Methyl-2-pentanone	<10	<10	<10	<10	<2.4	10		10/9/2013	RUF EPA18
Acetone	<10	<10	<10	<10	<4.2	10		10/9/2013	RUF EPA18
Benzene	<10	<10	<10	<10	<3.1	10		10/9/2013	RUF EPA18
Carbon tetrachloride	<10	<10	<10	<10	<1.6	10		10/9/2013	RUF EPA18
Chloroform	<10	<10	<10	<10	<2.0	10		10/9/2013	RUF EPA18
cis-1,2-Dichloroethene	150	150.994	<10	150	38	10		10/9/2013	RUF EPA18
Diethyl ether	<10	<10	<10	<10	<3.3	10		10/9/2013	RUF EPA18
Ethylbenzene	<10	<10	<10	<10	<2.3	10		10/9/2013	RUF EPA18
Freon 141B	<10	<10	<10	<10	<2.1	10		10/9/2013	RUF EPA18

Qualifiers:

< Less than the indicated limit of detection (LOD)

H Holding time for preparation or analysis

B Analyte detected in the associated Method Blank

(a) Analysis indicates possible breakthrough; back section result is greater than

10 % of the front section result.

**Analytical Results
for**

Arcadis

Date: 10-Oct-13

Workorder: 1310744

Client Reference: Lafarge EP

Analyte	Concentration					Limit of Detection (ug)	Qual	Date Analyzed /Analyst	Test Method
	Total (ug)	Front (ug)	Back (ug)	(mg/m3)	(ppm)				
m,p-Xylene	<20	<20	<20	<20	<4.6	20	10/9/2013	RUF	EPA18
Methyl tert-butyl ether	<10	<10	<10	<10	<2.8	10	10/9/2013	RUF	EPA18
Methylene chloride	<10	<10	<10	<10	<2.9	10	10/9/2013	RUF	EPA18
n-Heptane	<10	<10	<10	<10	<2.4	10	10/9/2013	RUF	EPA18
n-Hexane	<10	<10	<10	<10	<2.8	10	10/9/2013	RUF	EPA18
Naphthalene	<10	<10	<10	<10	<1.9	10	10/9/2013	RUF	EPA18
o-Xylene	<10	<10	<10	<10	<2.3	10	10/9/2013	RUF	EPA18
Tetrachloroethene	<10	<10	<10	<10	<1.5	10	10/9/2013	RUF	EPA18
Toluene	<10	<10	<10	<10	<2.6	10	10/9/2013	RUF	EPA18
trans-1,2-Dichloroethene	<10	<10	<10	<10	<2.5	10	10/9/2013	RUF	EPA18
Trichloroethene	<10	<10	<10	<10	<1.9	10	10/9/2013	RUF	EPA18
TRPH (Based on Benzene)	<100	<100	<100	<100	<31	100	10/9/2013	RUF	EPA18
Vinyl chloride	<10	<10	<10	<10	<3.9	10	10/9/2013	RUF	EPA18

Qualifiers:

< Less than the indicated limit of detection (LOD)

H Holding time for preparation or analysis

B Analyte detected in the associated Method Blank

(a) Analysis indicates possible breakthrough; back section result is greater than

10 % of the front section result.

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Arcadis Work Order Number 1310744

Checklist completed by [Signature] Date 10/9/13

Carrier name: FedEx UPS Courier Client US Mail Other

Shipping container/cooler in good condition? Yes No Not Present
Custody seals intact on shipping container/cooler? Yes No Not Present
Custody seals intact on sample bottles? PT 10/9/13 Yes No Not Present
Container/Temp Blank temperature in compliance? ($\pm 2^{\circ}C$)* Yes No
Cooler #1 ambient Cooler #2 Cooler #3 Cooler #4 Cooler #5 Cooler #6

Chain of custody present? Yes No
Chain of custody signed when relinquished and received? Yes No
Chain of custody agrees with sample labels? Yes No
Samples in proper container/bottle? Yes No
Sample containers intact? Yes No
Sufficient sample volume for indicated test? Yes No
All samples received within holding time? Yes No
Was TAT marked on the COC? Yes No
Proceed with Standard TAT as per project history? Yes No Not Applicable
Water - VOA vials have zero headspace? No VOA vials submitted Yes No
Water - pH acceptable upon receipt? Yes No Not Applicable

Adjusted? Checked by _____
Sample Condition: Good Other(Explain) _____
(For diffusive samples or AIHA lead) Is a known blank included? Yes No

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

Client: Arcadis
Project: Lafarge EP
Lab Order: 1310744

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1310744-001A	SVE-INF	10/8/2013 5:05:00PM	Air	Aromatic Volatiles in Air		10/09/2013	10/09/2013
1310744-001A	SVE-INF	10/8/2013 5:05:00PM	Air	Aromatic Volatiles in Air		10/09/2013	10/10/2013
1310744-001A	SVE-INF	10/8/2013 5:05:00PM	Air	Chlorinated Volatiles in Air		10/09/2013	10/09/2013
1310744-001A	SVE-INF	10/8/2013 5:05:00PM	Air	Volatile Hydrocarbons in Air		10/09/2013	10/09/2013
1310744-001A	SVE-INF	10/8/2013 5:05:00PM	Air	Volatile Hydrocarbons in Air		10/09/2013	10/10/2013
1310744-002A	SVE-EFF	10/8/2013 5:00:00PM	Air	Aromatic Volatiles in Air		10/09/2013	10/09/2013
1310744-002A	SVE-EFF	10/8/2013 5:00:00PM	Air	Chlorinated Volatiles in Air		10/09/2013	10/09/2013
1310744-002A	SVE-EFF	10/8/2013 5:00:00PM	Air	Volatile Hydrocarbons in Air		10/09/2013	10/09/2013

Client: Arcadis
 Project Name: Lafarge EP
 Workorder: 1310744

ANALYTICAL QC SUMMARY REPORT

BatchID: 182100

Sample ID: MB-182100	Client ID:	Units: ug, Total	Prep Date: 10/09/2013	Run No: 253568							
SampleType: MBLK	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 182100	Analysis Date: 10/09/2013	Seq No: 5324564							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	BRL	10									
1,1-Dichloroethene	BRL	10									
Carbon tetrachloride	BRL	10									
Chloroform	BRL	10									
cis-1,2-Dichloroethene	BRL	10									
Freon 141B	BRL	10									
Methylene chloride	BRL	10									
Tetrachloroethene	BRL	10									
trans-1,2-Dichloroethene	BRL	10									
Trichloroethene	BRL	10									
Vinyl chloride	BRL	10									

Sample ID: MB-182100	Client ID:	Units: ug, Total	Prep Date: 10/09/2013	Run No: 253569							
SampleType: MBLK	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 182100	Analysis Date: 10/09/2013	Seq No: 5324646							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2-Butanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	10									
Diethyl ether	BRL	10									
n-Heptane	BRL	10									
n-Hexane	BRL	10									

Sample ID: MB-182100	Client ID:	Units: ug, Total	Prep Date: 10/09/2013	Run No: 253570							
SampleType: MBLK	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 182100	Analysis Date: 10/09/2013	Seq No: 5324967							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene	BRL	10									
---------	-----	----	--	--	--	--	--	--	--	--	--

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
 Project Name: Lafarge EP
 Workorder: 1310744

ANALYTICAL QC SUMMARY REPORT

BatchID: 182100

Sample ID: MB-182100	Client ID:	Units: ug, Total	Prep Date: 10/09/2013	Run No: 253570							
SampleType: MBLK	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 182100	Analysis Date: 10/09/2013	Seq No: 5324967							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethylbenzene
 m,p-Xylene
 Methyl tert-butyl ether
 Naphthalene
 o-Xylene
 Toluene
 TRPH (Based on Benzene)

BRL
 BRL
 BRL
 BRL
 BRL
 BRL
 BRL

10
 20
 10
 10
 10
 10
 100

Sample ID: LCS-182100	Client ID:	Units: ug, Total	Prep Date: 10/09/2013	Run No: 253568							
SampleType: LCS	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 182100	Analysis Date: 10/09/2013	Seq No: 5324565							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane
 Carbon tetrachloride
 Chloroform
 Methylene chloride
 Tetrachloroethene
 Trichloroethene

106.4
 110.1
 104.5
 108.0
 105.4
 107.1

10
 10
 10
 10
 10
 10

100.0
 100.0
 100.0
 100.0
 100.0
 100.0

106
 110
 105
 108
 105
 107

84.6
 84.6
 82.7
 80
 80
 80

121
 124
 117
 116
 118
 118

Sample ID: LCS-182100	Client ID:	Units: ug, Total	Prep Date: 10/09/2013	Run No: 253569							
SampleType: LCS	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 182100	Analysis Date: 10/09/2013	Seq No: 5324647							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2-Butanone
 4-Methyl-2-pentanone
 Acetone
 Diethyl ether
 n-Heptane

95.72
 102.4
 85.94
 100.7
 106.9

10
 10
 10
 10
 10

100.0
 100.0
 100.0
 100.0
 100.0

95.7
 102
 85.9
 101
 107

78.6
 80
 70
 80
 80

120
 120
 120
 120
 122

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
BRL	Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S Spike Recovery outside limits due to matrix	

Client: Arcadis
 Project Name: Lafarge EP
 Workorder: 1310744

ANALYTICAL QC SUMMARY REPORT

BatchID: 182100

Sample ID: LCS-182100	Client ID:	Units: ug, Total	Prep Date: 10/09/2013	Run No: 253569							
SampleType: LCS	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 182100	Analysis Date: 10/09/2013	Seq No: 5324647							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

n-Hexane 108.8 10 100.0 109 80 121

Sample ID: LCS-182100	Client ID:	Units: ug, Total	Prep Date: 10/09/2013	Run No: 253570							
SampleType: LCS	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 182100	Analysis Date: 10/09/2013	Seq No: 5324968							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene 107.0 10 100.0 107 80 120
 Ethylbenzene 108.6 10 100.0 109 80 116
 m,p-Xylene 214.1 20 200.0 107 80 120
 Methyl tert-butyl ether 86.56 10 100.0 86.6 80 120
 Naphthalene 48.05 10 100.0 48.0 34.6 100
 o-Xylene 102.4 10 100.0 102 80 120
 Toluene 105.9 10 100.0 106 80 120

Sample ID: LCS-182100-2	Client ID:	Units: ug, Total	Prep Date: 10/09/2013	Run No: 253568							
SampleType: LCS	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 182100	Analysis Date: 10/09/2013	Seq No: 5324570							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene 104.3 10 100.0 104 85.1 120
 cis-1,2-Dichloroethene 108.1 10 100.0 108 80 119
 trans-1,2-Dichloroethene 104.8 10 100.0 105 85.7 117

Sample ID: LCS-182100-3	Client ID:	Units: ug, Total	Prep Date: 10/09/2013	Run No: 253568							
SampleType: LCS	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 182100	Analysis Date: 10/09/2013	Seq No: 5324568							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Vinyl chloride 19.30 10 25.00 77.2 61.2 120

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Arcadis
 Project Name: Lafarge EP
 Workorder: 1310744

ANALYTICAL QC SUMMARY REPORT

BatchID: 182100

Sample ID: LCSD-182100	Client ID:	Units: ug, Total	Prep Date: 10/09/2013	Run No: 253568							
SampleType: LCSD	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 182100	Analysis Date: 10/09/2013	Seq No: 5324567							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	106.8	10	100.0		107	84.6	121	106.4	0.387	20	
Carbon tetrachloride	110.9	10	100.0		111	84.6	124	110.1	0.689	20	
Chloroform	105.1	10	100.0		105	82.7	117	104.5	0.539	20	
Methylene chloride	109.0	10	100.0		109	80	116	108.0	0.964	20	
Tetrachloroethene	105.7	10	100.0		106	80	118	105.4	0.276	20	
Trichloroethene	107.6	10	100.0		108	80	118	107.1	0.492	20	

Sample ID: LCSD-182100	Client ID:	Units: ug, Total	Prep Date: 10/09/2013	Run No: 253569							
SampleType: LCSD	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 182100	Analysis Date: 10/09/2013	Seq No: 5324648							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2-Butanone	96.91	10	100.0		96.9	78.6	120	95.72	1.24	20	
4-Methyl-2-pentanone	103.1	10	100.0		103	80	120	102.4	0.687	20	
Acetone	87.80	10	100.0		87.8	70	120	85.94	2.15	20	
Diethyl ether	101.9	10	100.0		102	80	120	100.7	1.17	20	
n-Heptane	107.3	10	100.0		107	80	122	106.9	0.344	20	
n-Hexane	109.4	10	100.0		109	80	121	108.8	0.559	20	

Sample ID: LCSD-182100	Client ID:	Units: ug, Total	Prep Date: 10/09/2013	Run No: 253570							
SampleType: LCSD	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 182100	Analysis Date: 10/09/2013	Seq No: 5324969							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene	107.8	10	100.0		108	80	120	107.0	0.686	20	
Ethylbenzene	109.2	10	100.0		109	80	116	108.6	0.546	20	
m,p-Xylene	215.3	20	200.0		108	80	120	214.1	0.594	20	
Methyl tert-butyl ether	87.36	10	100.0		87.4	80	120	86.56	0.915	20	
Naphthalene	52.05	10	100.0		52.1	34.6	100	48.05	8.00	20	
o-Xylene	103.3	10	100.0		103	80	120	102.4	0.872	20	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
Project Name: Lafarge EP
Workorder: 1310744

ANALYTICAL QC SUMMARY REPORT

BatchID: 182100

Sample ID: LCSD-182100	Client ID:	Units: ug, Total	Prep Date: 10/09/2013	Run No: 253570							
SampleType: LCSD	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 182100	Analysis Date: 10/09/2013	Seq No: 5324969							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Toluene	106.5	10	100.0		107	80	120	105.9	0.600	20	
---------	-------	----	-------	--	-----	----	-----	-------	-------	----	--

Sample ID: LCSD-182100-2	Client ID:	Units: ug, Total	Prep Date: 10/09/2013	Run No: 253568							
SampleType: LCSD	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 182100	Analysis Date: 10/09/2013	Seq No: 5324571							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	102.9	10	100.0		103	85.1	120	104.3	1.34	20	
cis-1,2-Dichloroethene	107.6	10	100.0		108	80	119	108.1	0.531	20	
trans-1,2-Dichloroethene	103.8	10	100.0		104	85.7	117	104.8	0.985	20	

Sample ID: LCSD-182100-3	Client ID:	Units: ug, Total	Prep Date: 10/09/2013	Run No: 253568							
SampleType: LCSD	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 182100	Analysis Date: 10/09/2013	Seq No: 5324569							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Vinyl chloride	18.89	10	25.00		75.6	61.2	120	19.30	2.14	20	
----------------	-------	----	-------	--	------	------	-----	-------	------	----	--

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
BRL	Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S Spike Recovery outside limits due to matrix	



October 16, 2013

Peter Cornais
Arcadis
2081 Vista Parkway, Suite 200
West Palm Beach FL 33411

TEL: (850) 445-0829
FAX:

RE: Lafarge EP

Dear Peter Cornais:

Order No: 1310878

Analytical Environmental Services, Inc. received 2 samples on 10/10/2013 8:20:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/13-06/30/14.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/15.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Chantelle Kanhai
Project Manager



ANALYTICAL ENVIRONMENTAL SERVICES, INC

3785 Presidential Parkway, Atlanta GA 30340-3704

TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1310878

Date: 10/10/13 Page 1 of 1

COMPANY: **ARCADIS**
 ADDRESS: **1000 Cobb Place Blvd. Bldg 500A Kennesaw, GA 30144**
 PHONE: **770.428.9009**
 SAMPLED BY: **Peter Cornais**
 SIGNATURE: *P. Cornais*
 FAX: **770.428.4004**

ANALYSIS REQUESTED
 PRESERVATION (See codes)
 REMARKS
 Visit our website **www.aesatlanta.com**
 to check on the status of your results, place bottle orders, etc.

#	SAMPLE ID	SAMPLED		Grab	Composite	Matrix (See codes)	RECEIVED BY	DATE/TIME
		DATE	TIME					
1	SVE INF	10/9/13	1100	✓		AIR 1	<i>[Signature]</i>	10/10/13
2	SVE EFF	10/9/13	1755	✓		AIR 1	<i>[Signature]</i>	8:20
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								

RELINQUISHED BY: *B. Davis* DATE/TIME: 10/12/13

RECEIVED BY: *[Signature]* DATE/TIME: 10/10/13

PROJECT NAME: **Lafarge E.P.**

PROJECT # **HT 212516-0006-0001**

SITE ADDRESS: **4675 N. Martin Street East Point, GA**

SEND REPORT TO: **peter.cornais@arcadis-us.com**

INVOICE TO: (IF DIFFERENT FROM ABOVE)

SHIPMENT METHOD: **OUT** VIA: **COURIER**

SPECIAL INSTRUCTIONS/COMMENTS:

STATE PROGRAM (if any):
 E-mail? Y/N; Fax? Y/N
 DATA PACKAGE: I II III IV

Turnaround Time Request:
 Standard 5 Business Days
 2 Business Day Rush
 Next Business Day Rush
 Same Day Rush (auth req)
 Other **24 hour-rush**

Total # of Containers: **2**

RECEIPT

Full List EPA 18

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES. SAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMPLETION UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water
 PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client

Analytical Results

for

Arcadis

Date: 16-Oct-13

Workorder: 1310878

Client Reference: Lafarge EP

Analyte	Concentration					Limit of Detection (ug)	Qual	Date Analyzed /Analyst	Test Method
	Total (ug)	Front (ug)	Back (ug)	(mg/m3)	(ppm)				
Client ID: SVE INF	Lab ID: 1310878-001A		Date Sampled: 10/9/2013		Media: Tedlar Bag	Air Vol.(L): 1			
1,1,1-Trichloroethane	<10	<10	<10	<10	<1.8	10		10/10/2013 RS	EPA18
1,1-Dichloroethene	<10	<10	<10	<10	<2.5	10		10/10/2013 RS	EPA18
2-Butanone	<10	<10	<10	<10	<3.4	10		10/10/2013 RS	EPA18
4-Methyl-2-pentanone	<10	<10	<10	<10	<2.4	10		10/10/2013 RS	EPA18
Acetone	<10	<10	<10	<10	<4.2	10		10/10/2013 RS	EPA18
Benzene	<10	<10	<10	<10	<3.1	10		10/10/2013 RS	EPA18
Carbon tetrachloride	<10	<10	<10	<10	<1.6	10		10/10/2013 RS	EPA18
Chloroform	<10	<10	<10	<10	<2.0	10		10/10/2013 RS	EPA18
cis-1,2-Dichloroethene	300	170.472	132.669	300	76	10	(a)	10/10/2013 RS	EPA18
Diethyl ether	<10	<10	<10	<10	<3.3	10		10/10/2013 RS	EPA18
Ethylbenzene	140	141.28	<10	140	32	10		10/10/2013 RS	EPA18
Freon 141B	<10	<10	<10	<10	<2.1	10		10/10/2013 RS	EPA18
m,p-Xylene	410	414.808	<20	410	96	20		10/10/2013 RS	EPA18
Methyl tert-butyl ether	<10	<10	<10	<10	<2.8	10		10/10/2013 RS	EPA18
Methylene chloride	<10	<10	<10	<10	<2.9	10		10/10/2013 RS	EPA18
n-Heptane	2200	1981.9	242.183	2200	540	10	(a)	10/10/2013 RS	EPA18
n-Hexane	9000	5368.38	3660.11	9000	2600	100	(a)	10/13/2013 RS	EPA18
Naphthalene	<10	<10	<10	<10	<1.9	10		10/10/2013 RS	EPA18
o-Xylene	62	61.646	<10	62	14	10		10/10/2013 RS	EPA18
Tetrachloroethene	<10	<10	<10	<10	<1.5	10		10/10/2013 RS	EPA18
Toluene	3000	2941.8	22.725	3000	790	100		10/13/2013 RS	EPA18
trans-1,2-Dichloroethene	<10	<10	<10	<10	<2.5	10		10/10/2013 RS	EPA18
Trichloroethene	710	560.838	144.66	710	130	10	(a)	10/10/2013 RS	EPA18
TRPH (Based on Benzene)	38000	26467.2	11046.8	38000	12000	100	(a)	10/10/2013 RS	EPA18
Vinyl chloride	<10	<10	<10	<10	<3.9	10		10/10/2013 RS	EPA18

Client ID: SVE EFF	Lab ID: 1310878-002A		Date Sampled: 10/9/2013		Media: Tedlar Bag	Air Vol.(L): 1			
1,1,1-Trichloroethane	<10	<10	<10	<10	<1.8	10		10/10/2013 RS	EPA18
1,1-Dichloroethene	<10	<10	<10	<10	<2.5	10		10/10/2013 RS	EPA18
2-Butanone	<10	<10	<10	<10	<3.4	10		10/10/2013 RS	EPA18
4-Methyl-2-pentanone	<10	<10	<10	<10	<2.4	10		10/10/2013 RS	EPA18
Acetone	<10	<10	<10	<10	<4.2	10		10/10/2013 RS	EPA18
Benzene	<10	<10	<10	<10	<3.1	10		10/10/2013 RS	EPA18
Carbon tetrachloride	<10	<10	<10	<10	<1.6	10		10/10/2013 RS	EPA18
Chloroform	<10	<10	<10	<10	<2.0	10		10/10/2013 RS	EPA18
cis-1,2-Dichloroethene	<10	<10	<10	<10	<2.5	10		10/10/2013 RS	EPA18
Diethyl ether	<10	<10	<10	<10	<3.3	10		10/10/2013 RS	EPA18
Ethylbenzene	<10	<10	<10	<10	<2.3	10		10/10/2013 RS	EPA18
Freon 141B	<10	<10	<10	<10	<2.1	10		10/10/2013 RS	EPA18

Qualifiers:

< Less than the indicated limit of detection (LOD)

H Holding time for preparation or analysis

B Analyte detected in the associated Method Blank

(a) Analysis indicates possible breakthrough; back section result is greater than

10 % of the front section result.

**Analytical Results
for**

Arcadis

Date: 16-Oct-13

Workorder: 1310878

Client Reference: Lafarge EP

Analyte	Concentration					Limit of Detection (ug)	Qual	Date Analyzed /Analyst	Test Method
	Total (ug)	Front (ug)	Back (ug)	(mg/m3)	(ppm)				
m,p-Xylene	24	23.788	<20	24	5.5	20	10/10/2013	RS	EPA18
Methyl tert-butyl ether	<10	<10	<10	<10	<2.8	10	10/10/2013	RS	EPA18
Methylene chloride	<10	<10	<10	<10	<2.9	10	10/10/2013	RS	EPA18
n-Heptane	21	21.229	<10	21	5.2	10	10/10/2013	RS	EPA18
n-Hexane	16	15.592	<10	16	4.4	10	10/10/2013	RS	EPA18
Naphthalene	<10	<10	<10	<10	<1.9	10	10/10/2013	RS	EPA18
o-Xylene	<10	<10	<10	<10	<2.3	10	10/10/2013	RS	EPA18
Tetrachloroethene	<10	<10	<10	<10	<1.5	10	10/10/2013	RS	EPA18
Toluene	74	74.411	<10	74	20	10	10/10/2013	RS	EPA18
trans-1,2-Dichloroethene	<10	<10	<10	<10	<2.5	10	10/10/2013	RS	EPA18
Trichloroethene	25	25.205	<10	25	4.7	10	10/10/2013	RS	EPA18
TRPH (Based on Benzene)	820	818.091	<100	820	260	100	10/10/2013	RS	EPA18
Vinyl chloride	<10	<10	<10	<10	<3.9	10	10/10/2013	RS	EPA18

Qualifiers:

< Less than the indicated limit of detection (LOD)

H Holding time for preparation or analysis

B Analyte detected in the associated Method Blank

(a) Analysis indicates possible breakthrough; back section result is greater than

10 % of the front section result.

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Arcadis Work Order Number 1310878

Checklist completed by [Signature] Date 10/10/13

Carrier name: FedEx UPS Courier Client US Mail Other

Shipping container/cooler in good condition? Yes No Not Present
Custody seals intact on shipping container/cooler? Yes No Not Present
Custody seals intact on sample bottles? PT 10/10/13 Yes No Not Present
Container/Temp Blank temperature in compliance? (4°C±2)* Yes No

Cooler #1 Auburn Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler #5 _____ Cooler #6 _____

Chain of custody present? Yes No
Chain of custody signed when relinquished and received? Yes No
Chain of custody agrees with sample labels? Yes No
Samples in proper container/bottle? Yes No
Sample containers intact? Yes No
Sufficient sample volume for indicated test? Yes No
All samples received within holding time? Yes No
Was TAT marked on the COC? Yes No
Proceed with Standard TAT as per project history? Yes No Not Applicable
Water - VOA vials have zero headspace? No VOA vials submitted Yes No
Water - pH acceptable upon receipt? Yes No Not Applicable

Adjusted? _____ Checked by _____
Sample Condition: Good Other(Explain) _____
(For diffusive samples or AIHA lead) Is a known blank included? Yes No

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

Client: Arcadis
Project: Lafarge EP
Lab Order: 1310878

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1310878-001A	SVE INF	10/9/2013 6:00:00PM	Air	Aromatic Volatiles in Air		10/10/2013	10/10/2013
1310878-001A	SVE INF	10/9/2013 6:00:00PM	Air	Aromatic Volatiles in Air		10/10/2013	10/13/2013
1310878-001A	SVE INF	10/9/2013 6:00:00PM	Air	Chlorinated Volatiles in Air		10/10/2013	10/10/2013
1310878-001A	SVE INF	10/9/2013 6:00:00PM	Air	Volatile Hydrocarbons in Air		10/10/2013	10/10/2013
1310878-001A	SVE INF	10/9/2013 6:00:00PM	Air	Volatile Hydrocarbons in Air		10/10/2013	10/13/2013
1310878-002A	SVE EFF	10/9/2013 5:55:00PM	Air	Aromatic Volatiles in Air		10/10/2013	10/10/2013
1310878-002A	SVE EFF	10/9/2013 5:55:00PM	Air	Chlorinated Volatiles in Air		10/10/2013	10/10/2013
1310878-002A	SVE EFF	10/9/2013 5:55:00PM	Air	Volatile Hydrocarbons in Air		10/10/2013	10/10/2013

Client: Arcadis
 Project Name: Lafarge EP
 Workorder: 1310878

ANALYTICAL QC SUMMARY REPORT

BatchID: 182186

Sample ID: MB-182186	Client ID:	Units: ug, Total	Prep Date: 10/10/2013	Run No: 253740							
SampleType: MBLK	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 182186	Analysis Date: 10/10/2013	Seq No: 5330748							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	BRL	10									
1,1-Dichloroethene	BRL	10									
Carbon tetrachloride	BRL	10									
Chloroform	BRL	10									
cis-1,2-Dichloroethene	BRL	10									
Freon 141B	BRL	10									
Methylene chloride	BRL	10									
Tetrachloroethene	BRL	10									
trans-1,2-Dichloroethene	BRL	10									
Trichloroethene	BRL	10									
Vinyl chloride	BRL	10									

Sample ID: MB-182186	Client ID:	Units: ug, Total	Prep Date: 10/10/2013	Run No: 253878							
SampleType: MBLK	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 182186	Analysis Date: 10/10/2013	Seq No: 5330837							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2-Butanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	10									
Diethyl ether	BRL	10									
n-Heptane	BRL	10									
n-Hexane	BRL	10									

Sample ID: MB-182186	Client ID:	Units: ug, Total	Prep Date: 10/10/2013	Run No: 253882							
SampleType: MBLK	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 182186	Analysis Date: 10/10/2013	Seq No: 5330857							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene	BRL	10									
---------	-----	----	--	--	--	--	--	--	--	--	--

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
 Project Name: Lafarge EP
 Workorder: 1310878

ANALYTICAL QC SUMMARY REPORT

BatchID: 182186

Sample ID: MB-182186	Client ID:	Units: ug, Total	Prep Date: 10/10/2013	Run No: 253882							
SampleType: MBLK	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 182186	Analysis Date: 10/10/2013	Seq No: 5330857							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethylbenzene
 m,p-Xylene
 Methyl tert-butyl ether
 Naphthalene
 o-Xylene
 Toluene
 TRPH (Based on Benzene)

BRL
 BRL
 BRL
 BRL
 BRL
 BRL
 BRL

10
 20
 10
 10
 10
 10
 100

Sample ID: LCS-182186	Client ID:	Units: ug, Total	Prep Date: 10/10/2013	Run No: 253740							
SampleType: LCS	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 182186	Analysis Date: 10/10/2013	Seq No: 5330749							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane
 Carbon tetrachloride
 Chloroform
 Methylene chloride
 Tetrachloroethene
 Trichloroethene

107.5
 111.7
 105.4
 109.2
 105.6
 108.0

10
 10
 10
 10
 10
 10

100.0
 100.0
 100.0
 100.0
 100.0
 100.0

108
 112
 105
 109
 106
 108

84.6
 84.6
 82.7
 80
 80
 80

121
 124
 117
 116
 118
 118

Sample ID: LCS-182186	Client ID:	Units: ug, Total	Prep Date: 10/10/2013	Run No: 253878							
SampleType: LCS	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 182186	Analysis Date: 10/10/2013	Seq No: 5330841							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2-Butanone
 4-Methyl-2-pentanone
 Acetone
 Diethyl ether
 n-Heptane

96.55
 102.8
 86.92
 102.5
 107.7

10
 10
 10
 10
 10

100.0
 100.0
 100.0
 100.0
 100.0

96.6
 103
 86.9
 102
 108

78.6
 80
 70
 80
 80

120
 120
 120
 120
 122

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
BRL	Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S Spike Recovery outside limits due to matrix	

Client: Arcadis
Project Name: Lafarge EP
Workorder: 1310878

ANALYTICAL QC SUMMARY REPORT

BatchID: 182186

Sample ID: LCS-182186	Client ID:	Units: ug, Total	Prep Date: 10/10/2013	Run No: 253878							
SampleType: LCS	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 182186	Analysis Date: 10/10/2013	Seq No: 5330841							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

n-Hexane 110.3 10 100.0 110 80 121

Sample ID: LCS-182186	Client ID:	Units: ug, Total	Prep Date: 10/10/2013	Run No: 253882							
SampleType: LCS	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 182186	Analysis Date: 10/10/2013	Seq No: 5330858							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene 108.0 10 100.0 108 80 120
 Ethylbenzene 108.8 10 100.0 109 80 116
 m,p-Xylene 214.3 20 200.0 107 80 120
 Methyl tert-butyl ether 87.92 10 100.0 87.9 80 120
 Naphthalene 47.55 10 100.0 47.5 34.6 100
 o-Xylene 102.4 10 100.0 102 80 120
 Toluene 106.3 10 100.0 106 80 120

Sample ID: LCS-182186-2	Client ID:	Units: ug, Total	Prep Date: 10/10/2013	Run No: 253740							
SampleType: LCS	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 182186	Analysis Date: 10/10/2013	Seq No: 5330763							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene 102.6 10 100.0 103 85.1 120
 cis-1,2-Dichloroethene 106.4 10 100.0 106 80 119
 trans-1,2-Dichloroethene 102.5 10 100.0 103 85.7 117

Sample ID: LCS-182186-3	Client ID:	Units: ug, Total	Prep Date: 10/10/2013	Run No: 253740							
SampleType: LCS	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 182186	Analysis Date: 10/10/2013	Seq No: 5330751							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Vinyl chloride 27.97 10 25.00 112 61.2 120

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Arcadis
 Project Name: Lafarge EP
 Workorder: 1310878

ANALYTICAL QC SUMMARY REPORT

BatchID: 182186

Sample ID: LCSD-182186	Client ID:	Units: ug, Total	Prep Date: 10/10/2013	Run No: 253740							
SampleType: LCSD	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 182186	Analysis Date: 10/10/2013	Seq No: 5330750							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	108.5	10	100.0		109	84.6	121	107.5	0.927	20	
Carbon tetrachloride	112.8	10	100.0		113	84.6	124	111.7	0.961	20	
Chloroform	106.2	10	100.0		106	82.7	117	105.4	0.738	20	
Methylene chloride	108.4	10	100.0		108	80	116	109.2	0.806	20	
Tetrachloroethene	108.0	10	100.0		108	80	118	105.6	2.24	20	
Trichloroethene	109.3	10	100.0		109	80	118	108.0	1.14	20	

Sample ID: LCSD-182186	Client ID:	Units: ug, Total	Prep Date: 10/10/2013	Run No: 253878							
SampleType: LCSD	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 182186	Analysis Date: 10/10/2013	Seq No: 5330844							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2-Butanone	96.51	10	100.0		96.5	78.6	120	96.55	0.044	20	
4-Methyl-2-pentanone	104.2	10	100.0		104	80	120	102.8	1.38	20	
Acetone	84.07	10	100.0		84.1	70	120	86.92	3.34	20	
Diethyl ether	101.2	10	100.0		101	80	120	102.5	1.28	20	
n-Heptane	109.3	10	100.0		109	80	122	107.7	1.53	20	
n-Hexane	110.3	10	100.0		110	80	121	110.3	0.029	20	

Sample ID: LCSD-182186	Client ID:	Units: ug, Total	Prep Date: 10/10/2013	Run No: 253882							
SampleType: LCSD	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 182186	Analysis Date: 10/10/2013	Seq No: 5330859							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene	109.2	10	100.0		109	80	120	108.0	1.09	20	
Ethylbenzene	111.4	10	100.0		111	80	116	108.8	2.30	20	
m,p-Xylene	219.3	20	200.0		110	80	120	214.3	2.31	20	
Methyl tert-butyl ether	87.43	10	100.0		87.4	80	120	87.92	0.559	20	
Naphthalene	48.27	10	100.0		48.3	34.6	100	47.55	1.51	20	
o-Xylene	104.8	10	100.0		105	80	120	102.4	2.35	20	

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Arcadis
Project Name: Lafarge EP
Workorder: 1310878

ANALYTICAL QC SUMMARY REPORT

BatchID: 182186

Sample ID: LCSD-182186	Client ID:	Units: ug, Total	Prep Date: 10/10/2013	Run No: 253882							
SampleType: LCSD	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 182186	Analysis Date: 10/10/2013	Seq No: 5330859							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Toluene	108.5	10	100.0		108	80	120	106.3	2.04	20	
---------	-------	----	-------	--	-----	----	-----	-------	------	----	--

Sample ID: LCSD-182186-2	Client ID:	Units: ug, Total	Prep Date: 10/10/2013	Run No: 253740							
SampleType: LCSD	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 182186	Analysis Date: 10/10/2013	Seq No: 5330768							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	103.2	10	100.0		103	85.1	120	102.6	0.641	20	
cis-1,2-Dichloroethene	107.5	10	100.0		107	80	119	106.4	0.982	20	
trans-1,2-Dichloroethene	103.0	10	100.0		103	85.7	117	102.5	0.414	20	

Sample ID: LCSD-182186-3	Client ID:	Units: ug, Total	Prep Date: 10/10/2013	Run No: 253740							
SampleType: LCSD	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 182186	Analysis Date: 10/10/2013	Seq No: 5330754							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Vinyl chloride	28.21	10	25.00		113	61.2	120	27.97	0.851	20	
----------------	-------	----	-------	--	-----	------	-----	-------	-------	----	--

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
BRL	Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S Spike Recovery outside limits due to matrix	



October 16, 2013

Peter Cornais
Arcadis
2081 Vista Parkway, Suite 200
West Palm Beach FL 33411

TEL: (850) 445-0829
FAX:

RE: Lafarge EP

Dear Peter Cornais:

Order No: 1310985

Analytical Environmental Services, Inc. received 2 samples on 10/11/2013 7:30:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/13-06/30/14.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/15.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Chantelle Kanhai
Project Manager



ANALYTICAL ENVIRONMENTAL SERVICES, INC

3785 Presidential Parkway, Atlanta GA 30340-3704
AES TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1310985

Date: 10/10/13 Page 1 of 1

COMPANY: **ARCADIS**
 ADDRESS: 1000 Cobb Pkwy Blvd 1500 500-A
 Marietta, GA 30144
 PHONE: (770) 428-9009
 SAMPLED BY: *Max Mays*
 SIGNATURE: *[Signature]*
 FAX: _____

#	SAMPLE ID	SAMPLED		Grab	Composite	Matrix (See codes)	PRESERVATION (See codes)	REMARKS	No # of Containers
		DATE	TIME						
1	SUE - EFF	10/10/13	1715	+		A	NA		1
2	SUE - INE	10/10/13	1720	+		A	NA		1
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									

RELINQUISHED BY: *Max Mays* DATE/TIME: 10-11-13 12:50
 RECEIVED BY: *[Signature]* DATE/TIME: 10/11/13 7:30

PROJECT NAME: *Loxley EP*
 PROJECT #: *HTZ12.116*
 SITE ADDRESS: *2075 RN Marham St*
East Point, GA
 SEND REPORT TO: *John.Cernan@arcadis-us.com*
 INVOICE TO: _____
 (IF DIFFERENT FROM ABOVE)

SHIPMENT METHOD: *OUT* VIA: *CLIENT*
 VIA: *UPS MAIL COURIER*
 GREYHOUND OTHER: _____

TURNAROUND TIME REQUEST:
 Standard 5 Business Days
 2 Business Day Rush
 Next Business Day Rush
 Same Day Rush (auth req)
 Other _____

STATE PROGRAM (if any): _____
 E-mail? Y/N: _____ Fax? Y/N: _____
 DATA PACKAGE: I II III IV
 QUOTE #: _____ PO#: _____

RECEIPT: Total # of Containers: **2**

SPECIAL INSTRUCTIONS/COMMENTS: *24hr TAF min*

Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES.
SAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMPLETION UNLESS OTHER ARRANGEMENTS ARE MADE.
MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water
PRESERVATIVE CODES: H+1 = Hydrochloric acid + ice I = Ice only N = Nitric acid S+1 = Sulfuric acid + ice S/M+1 = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client

Analytical Results

for

Arcadis

Date: 16-Oct-13

Workorder: 1310985

Client Reference: Lafarge EP

Analyte	Concentration					Limit of Detection (ug)	Qual	Date Analyzed /Analyst	Test Method
	Total (ug)	Front (ug)	Back (ug)	(mg/m3)	(ppm)				
Client ID: SVE- EFF	Lab ID: 1310985-001A		Date Sampled: 10/10/2013		Media: Tedlar Bag	Air Vol.(L): 1			
1,1,1-Trichloroethane	<10	<10	<10	<10	<1.8	10	10/14/2013	RS	EPA18
1,1-Dichloroethene	<10	<10	<10	<10	<2.5	10	10/14/2013	RS	EPA18
2-Butanone	<10	<10	<10	<10	<3.4	10	10/14/2013	RS	EPA18
4-Methyl-2-pentanone	<10	<10	<10	<10	<2.4	10	10/14/2013	RS	EPA18
Acetone	<10	<10	<10	<10	<4.2	10	10/14/2013	RS	EPA18
Benzene	<10	<10	<10	<10	<3.1	10	10/14/2013	RS	EPA18
Carbon tetrachloride	<10	<10	<10	<10	<1.6	10	10/14/2013	RS	EPA18
Chloroform	<10	<10	<10	<10	<2.0	10	10/14/2013	RS	EPA18
cis-1,2-Dichloroethene	<10	<10	<10	<10	<2.5	10	10/14/2013	RS	EPA18
Diethyl ether	<10	<10	<10	<10	<3.3	10	10/14/2013	RS	EPA18
Ethylbenzene	<10	<10	<10	<10	<2.3	10	10/14/2013	RS	EPA18
Freon 141B	<10	<10	<10	<10	<2.1	10	10/14/2013	RS	EPA18
m,p-Xylene	<20	<20	<20	<20	<4.6	20	10/14/2013	RS	EPA18
Methyl tert-butyl ether	<10	<10	<10	<10	<2.8	10	10/14/2013	RS	EPA18
Methylene chloride	<10	<10	<10	<10	<2.9	10	10/14/2013	RS	EPA18
n-Heptane	<10	<10	<10	<10	<2.4	10	10/14/2013	RS	EPA18
n-Hexane	<10	<10	<10	<10	<2.8	10	10/14/2013	RS	EPA18
Naphthalene	<10	<10	<10	<10	<1.9	10	10/14/2013	RS	EPA18
o-Xylene	<10	<10	<10	<10	<2.3	10	10/14/2013	RS	EPA18
Tetrachloroethene	<10	<10	<10	<10	<1.5	10	10/14/2013	RS	EPA18
Toluene	<10	<10	<10	<10	<2.6	10	10/14/2013	RS	EPA18
trans-1,2-Dichloroethene	<10	<10	<10	<10	<2.5	10	10/14/2013	RS	EPA18
Trichloroethene	<10	<10	<10	<10	<1.9	10	10/14/2013	RS	EPA18
TRPH (Based on Benzene)	<100	<100	<100	<100	<31	100	10/14/2013	RS	EPA18
Vinyl chloride	<10	<10	<10	<10	<3.9	10	10/14/2013	RS	EPA18

Client ID: SVE- INF	Lab ID: 1310985-002A		Date Sampled: 10/10/2013		Media: Tedlar Bag	Air Vol.(L): 1			
1,1,1-Trichloroethane	<10	<10	<10	<10	<1.8	10	10/14/2013	RS	EPA18
1,1-Dichloroethene	<10	<10	<10	<10	<2.5	10	10/14/2013	RS	EPA18
2-Butanone	<10	<10	<10	<10	<3.4	10	10/14/2013	RS	EPA18
4-Methyl-2-pentanone	<10	<10	<10	<10	<2.4	10	10/14/2013	RS	EPA18
Acetone	<10	<10	<10	<10	<4.2	10	10/14/2013	RS	EPA18
Benzene	<10	<10	<10	<10	<3.1	10	10/14/2013	RS	EPA18
Carbon tetrachloride	<10	<10	<10	<10	<1.6	10	10/14/2013	RS	EPA18
Chloroform	<10	<10	<10	<10	<2.0	10	10/14/2013	RS	EPA18
cis-1,2-Dichloroethene	190	102.055	88.24	190	48	10	(a) 10/14/2013	RS	EPA18
Diethyl ether	<10	<10	<10	<10	<3.3	10	10/14/2013	RS	EPA18
Ethylbenzene	240	236.109	0.916	240	55	10	10/14/2013	RS	EPA18
Freon 141B	<10	<10	<10	<10	<2.1	10	10/14/2013	RS	EPA18

Qualifiers:

< Less than the indicated limit of detection (LOD)

H Holding time for preparation or analysis

B Analyte detected in the associated Method Blank

(a) Analysis indicates possible breakthrough; back section result is greater than

10 % of the front section result.

**Analytical Results
for**

Arcadis

Date: 16-Oct-13

Workorder: 1310985

Client Reference: Lafarge EP

Analyte	Concentration					Limit of Detection (ug)	Qual	Date Analyzed /Analyst	Test Method
	Total (ug)	Front (ug)	Back (ug)	(mg/m3)	(ppm)				
m,p-Xylene	770	767.376	1.057	770	180	20		10/14/2013 RS	EPA18
Methyl tert-butyl ether	<10	<10	<10	<10	<2.8	10		10/14/2013 RS	EPA18
Methylene chloride	<10	<10	<10	<10	<2.9	10		10/14/2013 RS	EPA18
n-Heptane	2000	1884.17	149.486	2000	500	10		10/14/2013 RS	EPA18
n-Hexane	7300	5348.47	1915.12	7300	2100	100	(a)	10/14/2013 RS	EPA18
Naphthalene	<10	<10	<10	<10	<1.9	10		10/14/2013 RS	EPA18
o-Xylene	87	87.43	<10	87	20	10		10/14/2013 RS	EPA18
Tetrachloroethene	<10	<10	<10	<10	<1.5	10		10/14/2013 RS	EPA18
Toluene	2800	2753.17	61.227	2800	750	100		10/14/2013 RS	EPA18
trans-1,2-Dichloroethene	<10	<10	<10	<10	<2.5	10		10/14/2013 RS	EPA18
Trichloroethene	600	510.651	89.905	600	110	10	(a)	10/14/2013 RS	EPA18
TRPH (Based on Benzene)	35000	28237.7	6391.97	35000	11000	100	(a)	10/14/2013 RS	EPA18
Vinyl chloride	<10	<10	<10	<10	<3.9	10		10/14/2013 RS	EPA18

Qualifiers:

< Less than the indicated limit of detection (LOD)

H Holding time for preparation or analysis

B Analyte detected in the associated Method Blank

(a) Analysis indicates possible breakthrough; back section result is greater than

10 % of the front section result.

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Arcadis Work Order Number 1310985

Checklist completed by [Signature] Date 10/11/13

Carrier name: FedEx UPS Courier Client US Mail Other

Shipping container/cooler in good condition? Yes No Not Present

Custody seals intact on shipping container/cooler? Yes No Not Present

Custody seals intact on sample bottles? PT 10/11/13 Yes No Not Present

Container/Temp Blank temperature in compliance? (4°C±2)* Yes No

Cooler #1 ambient Cooler #2 Cooler #3 Cooler #4 Cooler #5 Cooler #6

Chain of custody present? Yes No

Chain of custody signed when relinquished and received? Yes No

Chain of custody agrees with sample labels? Yes No

Samples in proper container/bottle? Yes No

Sample containers intact? Yes No

Sufficient sample volume for indicated test? Yes No

All samples received within holding time? Yes No

Was TAT marked on the COC? Yes No

Proceed with Standard TAT as per project history? Yes No Not Applicable

Water - VOA vials have zero headspace? No VOA vials submitted Yes No

Water - pH acceptable upon receipt? Yes No Not Applicable

Adjusted? Checked by

Sample Condition: Good Other(Explain)

(For diffusive samples or AIHA lead) Is a known blank included? Yes No

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

Client: Arcadis
Project: Lafarge EP
Lab Order: 1310985

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1310985-001A	SVE- EFF	10/10/2013 5:15:00PM	Air	Aromatic Volatiles in Air		10/11/2013	10/14/2013
1310985-001A	SVE- EFF	10/10/2013 5:15:00PM	Air	Chlorinated Volatiles in Air		10/11/2013	10/14/2013
1310985-001A	SVE- EFF	10/10/2013 5:15:00PM	Air	Volatile Hydrocarbons in Air		10/11/2013	10/14/2013
1310985-002A	SVE- INF	10/10/2013 5:20:00PM	Air	Aromatic Volatiles in Air		10/11/2013	10/14/2013
1310985-002A	SVE- INF	10/10/2013 5:20:00PM	Air	Chlorinated Volatiles in Air		10/11/2013	10/14/2013
1310985-002A	SVE- INF	10/10/2013 5:20:00PM	Air	Volatile Hydrocarbons in Air		10/11/2013	10/14/2013

Client: Arcadis
 Project Name: Lafarge EP
 Workorder: 1310985

ANALYTICAL QC SUMMARY REPORT

BatchID: 182186

Sample ID: MB-182186	Client ID:	Units: ug, Total	Prep Date: 10/10/2013	Run No: 253740							
SampleType: MBLK	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 182186	Analysis Date: 10/10/2013	Seq No: 5330748							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane
 1,1-Dichloroethene
 Carbon tetrachloride
 Chloroform
 cis-1,2-Dichloroethene
 Freon 141B
 Methylene chloride
 Tetrachloroethene
 trans-1,2-Dichloroethene
 Trichloroethene
 Vinyl chloride

BRL
 BRL

10
 10
 10
 10
 10
 10
 10
 10
 10
 10
 10

Sample ID: MB-182186	Client ID:	Units: ug, Total	Prep Date: 10/10/2013	Run No: 253878							
SampleType: MBLK	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 182186	Analysis Date: 10/10/2013	Seq No: 5330837							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2-Butanone
 4-Methyl-2-pentanone
 Acetone
 Diethyl ether
 n-Heptane
 n-Hexane

BRL
 BRL
 BRL
 BRL
 BRL
 BRL

10
 10
 10
 10
 10
 10

Sample ID: MB-182186	Client ID:	Units: ug, Total	Prep Date: 10/10/2013	Run No: 253882							
SampleType: MBLK	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 182186	Analysis Date: 10/10/2013	Seq No: 5330857							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene

BRL
 10

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Arcadis
 Project Name: Lafarge EP
 Workorder: 1310985

ANALYTICAL QC SUMMARY REPORT

BatchID: 182186

Sample ID: MB-182186	Client ID:	Units: ug, Total	Prep Date: 10/10/2013	Run No: 253882							
SampleType: MBLK	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 182186	Analysis Date: 10/10/2013	Seq No: 5330857							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethylbenzene
 m,p-Xylene
 Methyl tert-butyl ether
 Naphthalene
 o-Xylene
 Toluene
 TRPH (Based on Benzene)

BRL
 BRL
 BRL
 BRL
 BRL
 BRL
 BRL

10
 20
 10
 10
 10
 10
 100

Sample ID: LCS-182186	Client ID:	Units: ug, Total	Prep Date: 10/10/2013	Run No: 253740							
SampleType: LCS	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 182186	Analysis Date: 10/10/2013	Seq No: 5330749							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane
 Carbon tetrachloride
 Chloroform
 Methylene chloride
 Tetrachloroethene
 Trichloroethene

107.5
 111.7
 105.4
 109.2
 105.6
 108.0

10
 10
 10
 10
 10
 10

100.0
 100.0
 100.0
 100.0
 100.0
 100.0

108
 112
 105
 109
 106
 108

84.6
 84.6
 82.7
 80
 80
 80

121
 124
 117
 116
 118
 118

Sample ID: LCS-182186	Client ID:	Units: ug, Total	Prep Date: 10/10/2013	Run No: 253878							
SampleType: LCS	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 182186	Analysis Date: 10/10/2013	Seq No: 5330841							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2-Butanone
 4-Methyl-2-pentanone
 Acetone
 Diethyl ether
 n-Heptane

96.55
 102.8
 86.92
 102.5
 107.7

10
 10
 10
 10
 10

100.0
 100.0
 100.0
 100.0
 100.0

96.6
 103
 86.9
 102
 108

78.6
 80
 70
 80
 80

120
 120
 120
 120
 122

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	

Client: Arcadis
Project Name: Lafarge EP
Workorder: 1310985

ANALYTICAL QC SUMMARY REPORT

BatchID: 182186

Sample ID: LCS-182186	Client ID:	Units: ug, Total	Prep Date: 10/10/2013	Run No: 253878							
SampleType: LCS	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 182186	Analysis Date: 10/10/2013	Seq No: 5330841							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

n-Hexane 110.3 10 100.0 110 80 121

Sample ID: LCS-182186	Client ID:	Units: ug, Total	Prep Date: 10/10/2013	Run No: 253882							
SampleType: LCS	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 182186	Analysis Date: 10/10/2013	Seq No: 5330858							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene 108.0 10 100.0 108 80 120
 Ethylbenzene 108.8 10 100.0 109 80 116
 m,p-Xylene 214.3 20 200.0 107 80 120
 Methyl tert-butyl ether 87.92 10 100.0 87.9 80 120
 Naphthalene 47.55 10 100.0 47.5 34.6 100
 o-Xylene 102.4 10 100.0 102 80 120
 Toluene 106.3 10 100.0 106 80 120

Sample ID: LCS-182186-2	Client ID:	Units: ug, Total	Prep Date: 10/10/2013	Run No: 253740							
SampleType: LCS	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 182186	Analysis Date: 10/10/2013	Seq No: 5330763							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene 102.6 10 100.0 103 85.1 120
 cis-1,2-Dichloroethene 106.4 10 100.0 106 80 119
 trans-1,2-Dichloroethene 102.5 10 100.0 103 85.7 117

Sample ID: LCS-182186-3	Client ID:	Units: ug, Total	Prep Date: 10/10/2013	Run No: 253740							
SampleType: LCS	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 182186	Analysis Date: 10/10/2013	Seq No: 5330751							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Vinyl chloride 27.97 10 25.00 112 61.2 120

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Arcadis
 Project Name: Lafarge EP
 Workorder: 1310985

ANALYTICAL QC SUMMARY REPORT

BatchID: 182186

Sample ID: LCSD-182186	Client ID:	Units: ug, Total	Prep Date: 10/10/2013	Run No: 253740							
SampleType: LCSD	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 182186	Analysis Date: 10/10/2013	Seq No: 5330750							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	108.5	10	100.0		109	84.6	121	107.5	0.927	20	
Carbon tetrachloride	112.8	10	100.0		113	84.6	124	111.7	0.961	20	
Chloroform	106.2	10	100.0		106	82.7	117	105.4	0.738	20	
Methylene chloride	108.4	10	100.0		108	80	116	109.2	0.806	20	
Tetrachloroethene	108.0	10	100.0		108	80	118	105.6	2.24	20	
Trichloroethene	109.3	10	100.0		109	80	118	108.0	1.14	20	

Sample ID: LCSD-182186	Client ID:	Units: ug, Total	Prep Date: 10/10/2013	Run No: 253878							
SampleType: LCSD	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 182186	Analysis Date: 10/10/2013	Seq No: 5330844							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2-Butanone	96.51	10	100.0		96.5	78.6	120	96.55	0.044	20	
4-Methyl-2-pentanone	104.2	10	100.0		104	80	120	102.8	1.38	20	
Acetone	84.07	10	100.0		84.1	70	120	86.92	3.34	20	
Diethyl ether	101.2	10	100.0		101	80	120	102.5	1.28	20	
n-Heptane	109.3	10	100.0		109	80	122	107.7	1.53	20	
n-Hexane	110.3	10	100.0		110	80	121	110.3	0.029	20	

Sample ID: LCSD-182186	Client ID:	Units: ug, Total	Prep Date: 10/10/2013	Run No: 253882							
SampleType: LCSD	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 182186	Analysis Date: 10/10/2013	Seq No: 5330859							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene	109.2	10	100.0		109	80	120	108.0	1.09	20	
Ethylbenzene	111.4	10	100.0		111	80	116	108.8	2.30	20	
m,p-Xylene	219.3	20	200.0		110	80	120	214.3	2.31	20	
Methyl tert-butyl ether	87.43	10	100.0		87.4	80	120	87.92	0.559	20	
Naphthalene	48.27	10	100.0		48.3	34.6	100	47.55	1.51	20	
o-Xylene	104.8	10	100.0		105	80	120	102.4	2.35	20	

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Arcadis
 Project Name: Lafarge EP
 Workorder: 1310985

ANALYTICAL QC SUMMARY REPORT

BatchID: 182186

Sample ID: LCSD-182186	Client ID:	Units: ug, Total	Prep Date: 10/10/2013	Run No: 253882							
SampleType: LCSD	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 182186	Analysis Date: 10/10/2013	Seq No: 5330859							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Toluene	108.5	10	100.0		108	80	120	106.3	2.04	20	
---------	-------	----	-------	--	-----	----	-----	-------	------	----	--

Sample ID: LCSD-182186-2	Client ID:	Units: ug, Total	Prep Date: 10/10/2013	Run No: 253740							
SampleType: LCSD	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 182186	Analysis Date: 10/10/2013	Seq No: 5330768							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	103.2	10	100.0		103	85.1	120	102.6	0.641	20	
cis-1,2-Dichloroethene	107.5	10	100.0		107	80	119	106.4	0.982	20	
trans-1,2-Dichloroethene	103.0	10	100.0		103	85.7	117	102.5	0.414	20	

Sample ID: LCSD-182186-3	Client ID:	Units: ug, Total	Prep Date: 10/10/2013	Run No: 253740							
SampleType: LCSD	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 182186	Analysis Date: 10/10/2013	Seq No: 5330754							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Vinyl chloride	28.21	10	25.00		113	61.2	120	27.97	0.851	20	
----------------	-------	----	-------	--	-----	------	-----	-------	-------	----	--

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		



October 31, 2013

Peter Cornais
Arcadis
2081 Vista Parkway, Suite 200
West Palm Beach FL 33411

TEL: (850) 445-0829
FAX:

RE: Lafarge East Point

Dear Peter Cornais:

Order No: 1310D25

Analytical Environmental Services, Inc. received 2 samples on 10/15/2013 2:12:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/13-06/30/14.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/15.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Chantelle Kanhai
Project Manager



ANALYTICAL ENVIRONMENTAL SERVICES, INC
3785 Presidential Parkway, Atlanta GA 30340-3704

TEL: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 310DZS

Date: 10/15/13 Page 1 of 1

#	SAMPLE ID	SAMPLED		Grab	Composite	Matrix (See codes)	ANALYSIS REQUESTED			REMARKS	No # of Containers
		DATE	TIME				PRESERVATION (See codes)	Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.			
1	SVE - EFF	10/15/13	13:10	✓		A				24 Hour TAT	1
2	SVE - INF	10/15/13	13:15	✓		A				24 Hour TAT	1
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											

RELINQUISHED BY: <i>Shawna Taylor</i>	DATE/TIME: 10/15/13 14:12	RECEIVED BY: <i>[Signature]</i>	DATE/TIME: 10/15/13 2:12
PROJECT NAME: Lafarge East Point		PROJECT #: AT212516-0006	
SITE ADDRESS:		SEND REPORT TO:	
INVOICE TO: (IF DIFFERENT FROM ABOVE)		QUOTE #:	

SHIPMENT METHOD	OUT: <i>[Signature]</i>	VIA:
	IN: <i>[Signature]</i>	VIA:
	CLIPPER	FedEx
	GREYHOUND	UPS MAIL COURIER
		OTHER:

SPECIAL INSTRUCTIONS/COMMENTS: 24 Hour TAT

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES.
 SAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMPLETION UNLESS OTHER ARRANGEMENTS ARE MADE.
 MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water
 PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client

Analytical Results

for

Arcadis

Date: 31-Oct-13

Workorder: 1310D25

Client Reference: Lafarge East Point

Analyte	Concentration					Limit of Detection (ug)	Qual	Date Analyzed /Analyst	Test Method
	Total (ug)	Front (ug)	Back (ug)	(mg/m3)	(ppm)				
Client ID: SVE-EFF	Lab ID: 1310D25-001A		Date Sampled: 10/15/2013		Media: Tedlar Bag	Air Vol.(L): 1			
1,1,1-Trichloroethane	<10	<10	<10	<10	<1.8	10	10/15/2013	RS	EPA18
1,1-Dichloroethene	<10	<10	<10	<10	<2.5	10	10/15/2013	RS	EPA18
2-Butanone	<10	<10	<10	<10	<3.4	10	10/15/2013	RS	EPA18
4-Methyl-2-pentanone	<10	<10	<10	<10	<2.4	10	10/15/2013	RS	EPA18
Acetone	<10	<10	<10	<10	<4.2	10	10/15/2013	RS	EPA18
Benzene	<10	<10	<10	<10	<3.1	10	10/15/2013	RS	EPA18
Carbon tetrachloride	<10	<10	<10	<10	<1.6	10	10/15/2013	RS	EPA18
Chloroform	<10	<10	<10	<10	<2.0	10	10/15/2013	RS	EPA18
cis-1,2-Dichloroethene	<10	<10	<10	<10	<2.5	10	10/15/2013	RS	EPA18
Diethyl ether	<10	<10	<10	<10	<3.3	10	10/15/2013	RS	EPA18
Ethylbenzene	<10	<10	<10	<10	<2.3	10	10/15/2013	RS	EPA18
Freon 141B	<10	<10	<10	<10	<2.1	10	10/15/2013	RS	EPA18
m,p-Xylene	<20	<20	<20	<20	<4.6	20	10/15/2013	RS	EPA18
Methyl tert-butyl ether	<10	<10	<10	<10	<2.8	10	10/15/2013	RS	EPA18
Methylene chloride	<10	<10	<10	<10	<2.9	10	10/15/2013	RS	EPA18
n-Heptane	<10	<10	<10	<10	<2.4	10	10/15/2013	RS	EPA18
n-Hexane	<10	<10	<10	<10	<2.8	10	10/15/2013	RS	EPA18
Naphthalene	<10	<10	<10	<10	<1.9	10	10/15/2013	RS	EPA18
o-Xylene	<10	<10	<10	<10	<2.3	10	10/15/2013	RS	EPA18
Tetrachloroethene	<10	<10	<10	<10	<1.5	10	10/15/2013	RS	EPA18
Toluene	<10	<10	<10	<10	<2.6	10	10/15/2013	RS	EPA18
trans-1,2-Dichloroethene	<10	<10	<10	<10	<2.5	10	10/15/2013	RS	EPA18
Trichloroethene	<10	<10	<10	<10	<1.9	10	10/15/2013	RS	EPA18
TRPH (Based on Benzene)	<100	<100	<100	<100	<31	100	10/15/2013	RS	EPA18
Vinyl chloride	<10	<10	<10	<10	<3.9	10	10/15/2013	RS	EPA18

Client ID: SVE-INF	Lab ID: 1310D25-002A		Date Sampled: 10/15/2013		Media: Tedlar Bag	Air Vol.(L): 1			
1,1,1-Trichloroethane	<10	<10	<10	<10	<1.8	10	10/15/2013	RS	EPA18
1,1-Dichloroethene	<10	<10	<10	<10	<2.5	10	10/15/2013	RS	EPA18
2-Butanone	<10	<10	<10	<10	<3.4	10	10/15/2013	RS	EPA18
4-Methyl-2-pentanone	<10	<10	<10	<10	<2.4	10	10/15/2013	RS	EPA18
Acetone	<10	<10	<10	<10	<4.2	10	10/15/2013	RS	EPA18
Benzene	<10	<10	<10	<10	<3.1	10	10/15/2013	RS	EPA18
Carbon tetrachloride	<10	<10	<10	<10	<1.6	10	10/15/2013	RS	EPA18
Chloroform	<10	<10	<10	<10	<2.0	10	10/15/2013	RS	EPA18
cis-1,2-Dichloroethene	250	113.216	134.056	250	62	10	(a) 10/15/2013	RS	EPA18
Diethyl ether	<10	<10	<10	<10	<3.3	10	10/15/2013	RS	EPA18
Ethylbenzene	200	196.782	<10	200	45	10	10/15/2013	RS	EPA18
Freon 141B	<10	<10	<10	<10	<2.1	10	10/15/2013	RS	EPA18

Qualifiers:

< Less than the indicated limit of detection (LOD)

H Holding time for preparation or analysis

B Analyte detected in the associated Method Blank

(a) Analysis indicates possible breakthrough; back section result is greater than

10 % of the front section result.

Analytical Results

for

Arcadis

Date: 31-Oct-13

Workorder: 1310D25

Client Reference: Lafarge East Point

Analyte	Concentration					Limit of Detection (ug)	Qual	Date Analyzed /Analyst	Test Method
	Total (ug)	Front (ug)	Back (ug)	(mg/m3)	(ppm)				
m,p-Xylene	680	675.034	<20	680	160	20		10/15/2013 RS	EPA18
Methyl tert-butyl ether	<10	<10	<10	<10	<2.8	10		10/15/2013 RS	EPA18
Methylene chloride	<10	<10	<10	<10	<2.9	10		10/15/2013 RS	EPA18
n-Heptane	2400	2157.92	242.48	2400	590	100	(a)	10/15/2013 RS	EPA18
n-Hexane	8100	4323.57	3789.18	8100	2300	100	(a)	10/15/2013 RS	EPA18
Naphthalene	<10	<10	<10	<10	<1.9	10		10/15/2013 RS	EPA18
o-Xylene	81	80.988	<10	81	19	10		10/15/2013 RS	EPA18
Tetrachloroethene	<10	<10	<10	<10	<1.5	10		10/15/2013 RS	EPA18
Toluene	3200	3207.35	21.92	3200	860	100		10/15/2013 RS	EPA18
trans-1,2-Dichloroethene	<10	<10	<10	<10	<2.5	10		10/15/2013 RS	EPA18
Trichloroethene	840	685.442	153.678	840	160	10	(a)	10/15/2013 RS	EPA18
TRPH (Based on Benzene)	35000	24528.1	10550.6	35000	11000	100	(a)	10/15/2013 RS	EPA18
Vinyl chloride	<10	<10	<10	<10	<3.9	10		10/15/2013 RS	EPA18

Qualifiers:

< Less than the indicated limit of detection (LOD)

H Holding time for preparation or analysis

B Analyte detected in the associated Method Blank

(a) Analysis indicates possible breakthrough; back section result is greater than

10 % of the front section result.

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Arcadis

Work Order Number 1310025

Checklist completed by JMB Signature Date 10/15/13

Carrier name: FedEx UPS Courier Client US Mail Other

Shipping container/cooler in good condition? Yes No Not Present

Custody seals intact on shipping container/cooler? Yes No Not Present

Custody seals intact on sample bottles? Yes No Not Present

Container/Temp Blank temperature in compliance? ^{10/15/13} ~~(4°C±2)~~ Yes No

Cooler #1 Ambient Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler #5 _____ Cooler #6 _____

Chain of custody present? Yes No

Chain of custody signed when relinquished and received? Yes No

Chain of custody agrees with sample labels? Yes No

Samples in proper container/bottle? Yes No

Sample containers intact? Yes No

Sufficient sample volume for indicated test? Yes No

All samples received within holding time? Yes No

Was TAT marked on the COC? Yes No

Proceed with Standard TAT as per project history? Yes No Not Applicable

Water - VOA vials have zero headspace? No VOA vials submitted Yes No

Water - pH acceptable upon receipt? Yes No Not Applicable

Adjusted? _____ Checked by _____

Sample Condition: Good Other(Explain) _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes No

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

Client: Arcadis
Project: Lafarge East Point
Lab Order: 1310D25

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1310D25-001A	SVE-EFF	10/15/2013 1:10:00PM	Air	Aromatic Volatiles in Air		10/15/2013	10/15/2013
1310D25-001A	SVE-EFF	10/15/2013 1:10:00PM	Air	Chlorinated Volatiles in Air		10/15/2013	10/15/2013
1310D25-001A	SVE-EFF	10/15/2013 1:10:00PM	Air	Volatile Hydrocarbons in Air		10/15/2013	10/15/2013
1310D25-002A	SVE-INF	10/15/2013 1:15:00PM	Air	Aromatic Volatiles in Air		10/15/2013	10/15/2013
1310D25-002A	SVE-INF	10/15/2013 1:15:00PM	Air	Chlorinated Volatiles in Air		10/15/2013	10/15/2013
1310D25-002A	SVE-INF	10/15/2013 1:15:00PM	Air	Volatile Hydrocarbons in Air		10/15/2013	10/15/2013

Client: Arcadis
 Project Name: Lafarge East Point
 Workorder: 1310D25

ANALYTICAL QC SUMMARY REPORT

BatchID: 182374

Sample ID: MB-182374	Client ID:	Units: ug, Total	Prep Date: 10/15/2013	Run No: 253994							
SampleType: MBLK	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 182374	Analysis Date: 10/16/2013	Seq No: 5333179							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	BRL	10									
1,1-Dichloroethene	BRL	10									
Carbon tetrachloride	BRL	10									
Chloroform	BRL	10									
cis-1,2-Dichloroethene	BRL	10									
Freon 141B	BRL	10									
Methylene chloride	BRL	10									
Tetrachloroethene	BRL	10									
trans-1,2-Dichloroethene	BRL	10									
Trichloroethene	BRL	10									
Vinyl chloride	BRL	10									

Sample ID: MB-182374	Client ID:	Units: ug, Total	Prep Date: 10/15/2013	Run No: 253995							
SampleType: MBLK	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 182374	Analysis Date: 10/16/2013	Seq No: 5333193							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2-Butanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	10									
Diethyl ether	BRL	10									
n-Heptane	BRL	10									
n-Hexane	BRL	10									

Sample ID: MB-182374	Client ID:	Units: ug, Total	Prep Date: 10/15/2013	Run No: 253997							
SampleType: MBLK	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 182374	Analysis Date: 10/16/2013	Seq No: 5333243							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene	BRL	10									
---------	-----	----	--	--	--	--	--	--	--	--	--

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
Project Name: Lafarge East Point
Workorder: 1310D25

ANALYTICAL QC SUMMARY REPORT

BatchID: 182374

Sample ID: MB-182374	Client ID:	Units: ug, Total	Prep Date: 10/15/2013	Run No: 253997							
SampleType: MBLK	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 182374	Analysis Date: 10/16/2013	Seq No: 5333243							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethylbenzene
m,p-Xylene
Methyl tert-butyl ether
Naphthalene
o-Xylene
Toluene
TRPH (Based on Benzene)

BRL
BRL
BRL
BRL
BRL
BRL
BRL

10
20
10
10
10
10
100

Sample ID: LCS-182374	Client ID:	Units: ug, Total	Prep Date: 10/15/2013	Run No: 253994							
SampleType: LCS	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 182374	Analysis Date: 10/16/2013	Seq No: 5333181							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane
Carbon tetrachloride
Chloroform
Methylene chloride
Tetrachloroethene
Trichloroethene

103.7
107.4
101.2
103.3
103.1
105.9

10
10
10
10
10
10

100.0
100.0
100.0
100.0
100.0
100.0

104
107
101
103
103
106

84.6
84.6
82.7
80
80
80

121
124
117
116
118
118

Sample ID: LCS-182374	Client ID:	Units: ug, Total	Prep Date: 10/15/2013	Run No: 253995							
SampleType: LCS	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 182374	Analysis Date: 10/16/2013	Seq No: 5333195							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2-Butanone
4-Methyl-2-pentanone
Acetone
Diethyl ether
n-Heptane

91.52
98.82
81.66
97.85
104.0

10
10
10
10
10

100.0
100.0
100.0
100.0
100.0

91.5
98.8
81.7
97.9
104

78.6
80
70
80
80

120
120
120
120
122

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	

Client: Arcadis
Project Name: Lafarge East Point
Workorder: 1310D25

ANALYTICAL QC SUMMARY REPORT

BatchID: 182374

Sample ID: LCS-182374	Client ID:	Units: ug, Total	Prep Date: 10/15/2013	Run No: 253995							
SampleType: LCS	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 182374	Analysis Date: 10/16/2013	Seq No: 5333195							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

n-Hexane 105.0 10 100.0 105 80 121

Sample ID: LCS-182374	Client ID:	Units: ug, Total	Prep Date: 10/15/2013	Run No: 253997							
SampleType: LCS	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 182374	Analysis Date: 10/16/2013	Seq No: 5333245							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene 104.1 10 100.0 104 80 120
 Ethylbenzene 106.0 10 100.0 106 80 116
 m,p-Xylene 208.5 20 200.0 104 80 120
 Methyl tert-butyl ether 83.80 10 100.0 83.8 80 120
 Naphthalene 45.69 10 100.0 45.7 34.6 100
 o-Xylene 99.23 10 100.0 99.2 80 120
 Toluene 103.0 10 100.0 103 80 120

Sample ID: LCS-182374-2	Client ID:	Units: ug, Total	Prep Date: 10/15/2013	Run No: 253994							
SampleType: LCS	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 182374	Analysis Date: 10/16/2013	Seq No: 5333192							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene 99.18 10 100.0 99.2 85.1 120
 cis-1,2-Dichloroethene 105.5 10 100.0 105 80 119
 trans-1,2-Dichloroethene 99.41 10 100.0 99.4 85.7 117

Sample ID: LCS-182374-3	Client ID:	Units: ug, Total	Prep Date: 10/15/2013	Run No: 253994							
SampleType: LCS	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 182374	Analysis Date: 10/16/2013	Seq No: 5333183							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Vinyl chloride 20.82 10 25.00 83.3 61.2 120

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Arcadis
Project Name: Lafarge East Point
Workorder: 1310D25

ANALYTICAL QC SUMMARY REPORT

BatchID: 182374

Sample ID: LCSD-182374	Client ID:	Units: ug, Total	Prep Date: 10/15/2013	Run No: 253994							
SampleType: LCSD	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 182374	Analysis Date: 10/16/2013	Seq No: 5333182							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	104.1	10	100.0		104	84.6	121	103.7	0.429	20	
Carbon tetrachloride	107.8	10	100.0		108	84.6	124	107.4	0.333	20	
Chloroform	101.9	10	100.0		102	82.7	117	101.2	0.659	20	
Methylene chloride	104.3	10	100.0		104	80	116	103.3	0.969	20	
Tetrachloroethene	103.2	10	100.0		103	80	118	103.1	0.083	20	
Trichloroethene	106.3	10	100.0		106	80	118	105.9	0.331	20	

Sample ID: LCSD-182374	Client ID:	Units: ug, Total	Prep Date: 10/15/2013	Run No: 253995							
SampleType: LCSD	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 182374	Analysis Date: 10/16/2013	Seq No: 5333196							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2-Butanone	91.41	10	100.0		91.4	78.6	120	91.52	0.119	20	
4-Methyl-2-pentanone	98.72	10	100.0		98.7	80	120	98.82	0.104	20	
Acetone	81.68	10	100.0		81.7	70	120	81.66	0.014	20	
Diethyl ether	98.38	10	100.0		98.4	80	120	97.85	0.536	20	
n-Heptane	104.5	10	100.0		105	80	122	104.0	0.474	20	
n-Hexane	105.2	10	100.0		105	80	121	105.0	0.246	20	

Sample ID: LCSD-182374	Client ID:	Units: ug, Total	Prep Date: 10/15/2013	Run No: 253997							
SampleType: LCSD	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 182374	Analysis Date: 10/16/2013	Seq No: 5333248							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene	104.2	10	100.0		104	80	120	104.1	0.111	20	
Ethylbenzene	106.1	10	100.0		106	80	116	106.0	0.114	20	
m,p-Xylene	208.6	20	200.0		104	80	120	208.5	0.041	20	
Methyl tert-butyl ether	84.07	10	100.0		84.1	80	120	83.80	0.322	20	
Naphthalene	45.66	10	100.0		45.7	34.6	100	45.69	0.057	20	
o-Xylene	99.00	10	100.0		99.0	80	120	99.23	0.229	20	

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Arcadis
Project Name: Lafarge East Point
Workorder: 1310D25

ANALYTICAL QC SUMMARY REPORT

BatchID: 182374

Sample ID: LCSD-182374	Client ID:	Units: ug, Total	Prep Date: 10/15/2013	Run No: 253997							
SampleType: LCSD	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 182374	Analysis Date: 10/16/2013	Seq No: 5333248							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Toluene	103.1	10	100.0		103	80	120	103.0	0.052	20	
---------	-------	----	-------	--	-----	----	-----	-------	-------	----	--

Sample ID: LCSD-182374-2	Client ID:	Units: ug, Total	Prep Date: 10/15/2013	Run No: 253994							
SampleType: LCSD	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 182374	Analysis Date: 10/16/2013	Seq No: 5333194							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	101.9	10	100.0		102	85.1	120	99.18	2.73	20	
cis-1,2-Dichloroethene	108.8	10	100.0		109	80	119	105.5	3.11	20	
trans-1,2-Dichloroethene	99.95	10	100.0		100.0	85.7	117	99.41	0.548	20	

Sample ID: LCSD-182374-3	Client ID:	Units: ug, Total	Prep Date: 10/15/2013	Run No: 253994							
SampleType: LCSD	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 182374	Analysis Date: 10/16/2013	Seq No: 5333185							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Vinyl chloride	17.59	10	25.00		70.4	61.2	120	20.82	16.8	20	
----------------	-------	----	-------	--	------	------	-----	-------	------	----	--

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
BRL	Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S Spike Recovery outside limits due to matrix	



October 28, 2013

Peter Cornais
Arcadis
2081 Vista Parkway, Suite 200
West Palm Beach FL 33411

TEL: (850) 445-0829
FAX:

RE: Lafarge East Point

Dear Peter Cornais:

Order No: 1310E41

Analytical Environmental Services, Inc. received 2 samples on 10/17/2013 8:44:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/13-06/30/14.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/15.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Chantelle Kanhai
Project Manager



ANALYTICAL ENVIRONMENTAL SERVICES, INC

3785 Presidential Parkway, Atlanta GA 30340-3704

AES TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1310E41

Date: 10/16/13 Page 1 of 1

#	SAMPLE ID	DATE	TIME	SAMPLED		DATE/TIME RECEIVED BY	DATE/TIME	RELINQUISHED BY		DATE/TIME	REMARKS	No # of Containers
				Grab	Composite			Matrix	Composite			
1	SVE-Inf	10/16/13	840	X		10/16/13	1900	John Jenkins	10/16/13	1		
2	SVE-Eff	10/16/13	850	X		10/17/13	844	John Jenkins	10/17/13	1		
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												

ADDRESS: 1000 Cobb Place Blvd
 Bldg 500-A
 Kennesaw GA 30144
 FAX: 770 428 4004
 SIGNATURE: [Signature]

COMPANY: Arcadis
 PHONE: 770 428 9009
 SAMPLED BY: V. Maloney, I. Jenkins

ANALYSIS REQUESTED
 PRESERVATION (See codes)

Visit our website
 www.aesatlanta.com
 to check on the status of
 your results, place bottle
 orders, etc.

PROJECT INFORMATION
 PROJECT NAME: Lafayette East Point
 PROJECT # HT212516.0006
 SITE ADDRESS: 2675 N. Martin St.
 SEND REPORT TO: peter.cornelisz@arcadis-us.com
 INVOICE TO: (IF DIFFERENT FROM ABOVE)
 QUOTE #:
 PO#:

SHIPMENT METHOD
 VIA: [Signature]
 CLIENT FedEx UPS MAIL COURIER
 GREYHOUND OTHER
 SPECIAL INSTRUCTIONS/COMMENTS:
 RECEIVED BY: [Signature] 10/16/13
 [Signature] 10/17/13 844
 [Signature] 8:44

RECEIPT
 Total # of Containers: 2
 Turnaround Time Request
 Standard 5 Business Days
 2 Business Day Rush
 Next Business Day Rush
 Same Day Rush (auth req.)
 Other
 STATE PROGRAM (if any):
 E-mail? Y / N; Fax? Y / N
 DATA PACKAGE: I II III IV

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES.
 SAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMPLETION UNLESS OTHER ARRANGEMENTS ARE MADE.
 MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water
 PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice SM+I = Sodium Bisulfate/Methanol + ice NA = None
 White Copy - Original; Yellow Copy - Client

Analytical Results

for

Arcadis

Date: 28-Oct-13

Workorder: 1310E41

Client Reference: Lafarge East Point

Analyte	Concentration					Limit of Detection (ug)	Qual	Date Analyzed /Analyst	Test Method
	Total (ug)	Front (ug)	Back (ug)	(mg/m3)	(ppm)				
Client ID: SVE-INF	Lab ID: 1310E41-001A		Date Sampled: 10/16/2013		Media: Tedlar Bag	Air Vol.(L): 1			
1,1,1-Trichloroethane	<10	<10	<10	<10	<1.8	10		10/19/2013 RUF	EPA18
1,1-Dichloroethene	<10	<10	<10	<10	<2.5	10		10/22/2013 RUF	EPA18
2-Butanone	<10	<10	<10	<10	<3.4	10		10/19/2013 RUF	EPA18
4-Methyl-2-pentanone	<10	<10	<10	<10	<2.4	10		10/19/2013 RUF	EPA18
Acetone	<10	<10	<10	<10	<4.2	10		10/19/2013 RUF	EPA18
Benzene	<10	<10	<10	<10	<3.1	10		10/19/2013 RUF	EPA18
Carbon tetrachloride	<10	<10	<10	<10	<1.6	10		10/19/2013 RUF	EPA18
Chloroform	<10	<10	<10	<10	<2.0	10		10/19/2013 RUF	EPA18
cis-1,2-Dichloroethene	270	130.474	141.706	270	69	10	(a)	10/19/2013 RUF	EPA18
Diethyl ether	<10	<10	<10	<10	<3.3	10		10/19/2013 RUF	EPA18
Ethylbenzene	150	154.589	<10	150	36	10		10/19/2013 RUF	EPA18
Freon 141B	<10	<10	<10	<10	<2.1	10		10/21/2013 RUF	EPA18
m,p-Xylene	380	375.515	<20	380	86	20		10/19/2013 RUF	EPA18
Methyl tert-butyl ether	<10	<10	<10	<10	<2.8	10		10/19/2013 RUF	EPA18
Methylene chloride	<10	<10	<10	<10	<2.9	10		10/19/2013 RUF	EPA18
n-Heptane	1600	1563.76	12.782	1600	390	10		10/19/2013 RUF	EPA18
n-Hexane	5500	4657.51	800.399	5500	1600	100	(a)	10/19/2013 RUF	EPA18
Naphthalene	<10	<10	<10	<10	<1.9	10		10/19/2013 RUF	EPA18
o-Xylene	73	72.552	<10	73	17	10		10/19/2013 RUF	EPA18
Tetrachloroethene	<10	<10	<10	<10	<1.5	10		10/19/2013 RUF	EPA18
Toluene	2300	2338.27	<100	2300	620	100		10/19/2013 RUF	EPA18
trans-1,2-Dichloroethene	<10	<10	<10	<10	<2.5	10		10/19/2013 RUF	EPA18
Trichloroethene	690	651.367	39.657	690	130	10		10/19/2013 RUF	EPA18
TRPH (Based on Benzene)	25000	21961.9	2687.85	25000	7700	100	(a)	10/19/2013 RUF	EPA18
Vinyl chloride	<10	<10	<10	<10	<3.9	10		10/19/2013 RUF	EPA18

Client ID: SVE-EFF	Lab ID: 1310E41-002A		Date Sampled: 10/16/2013		Media: Tedlar Bag	Air Vol.(L): 1			
1,1,1-Trichloroethane	<10	<10	<10	<10	<1.8	10		10/19/2013 RUF	EPA18
1,1-Dichloroethene	<10	<10	<10	<10	<2.5	10		10/22/2013 RUF	EPA18
2-Butanone	<10	<10	<10	<10	<3.4	10		10/19/2013 RUF	EPA18
4-Methyl-2-pentanone	<10	<10	<10	<10	<2.4	10		10/19/2013 RUF	EPA18
Acetone	<10	<10	<10	<10	<4.2	10		10/19/2013 RUF	EPA18
Benzene	<10	<10	<10	<10	<3.1	10		10/19/2013 RUF	EPA18
Carbon tetrachloride	<10	<10	<10	<10	<1.6	10		10/19/2013 RUF	EPA18
Chloroform	<10	<10	<10	<10	<2.0	10		10/19/2013 RUF	EPA18
cis-1,2-Dichloroethene	<10	<10	<10	<10	<2.5	10		10/19/2013 RUF	EPA18
Diethyl ether	<10	<10	<10	<10	<3.3	10		10/19/2013 RUF	EPA18
Ethylbenzene	<10	<10	<10	<10	<2.3	10		10/19/2013 RUF	EPA18
Freon 141B	<10	<10	<10	<10	<2.1	10		10/21/2013 RUF	EPA18

Qualifiers:

< Less than the indicated limit of detection (LOD)

H Holding time for preparation or analysis

B Analyte detected in the associated Method Blank

(a) Analysis indicates possible breakthrough; back section result is greater than

10 % of the front section result.

**Analytical Results
for**

Arcadis

Date: 28-Oct-13

Workorder: 1310E41

Client Reference: Lafarge East Point

Analyte	Concentration					Limit of Detection (ug)	Qual	Date Analyzed /Analyst	Test Method
	Total (ug)	Front (ug)	Back (ug)	(mg/m3)	(ppm)				
m,p-Xylene	<20	<20	<20	<20	<4.6	20		10/19/2013 RUF	EPA18
Methyl tert-butyl ether	<10	<10	<10	<10	<2.8	10		10/19/2013 RUF	EPA18
Methylene chloride	<10	<10	<10	<10	<2.9	10		10/19/2013 RUF	EPA18
n-Heptane	<10	<10	<10	<10	<2.4	10		10/19/2013 RUF	EPA18
n-Hexane	14000	11577.5	2260.97	14000	3900	100	(a)	10/21/2013 RUF	EPA18
Naphthalene	<10	<10	<10	<10	<1.9	10		10/19/2013 RUF	EPA18
o-Xylene	<10	<10	<10	<10	<2.3	10		10/19/2013 RUF	EPA18
Tetrachloroethene	<10	<10	<10	<10	<1.5	10		10/19/2013 RUF	EPA18
Toluene	<10	<10	<10	<10	<2.6	10		10/19/2013 RUF	EPA18
trans-1,2-Dichloroethene	<10	<10	<10	<10	<2.5	10		10/19/2013 RUF	EPA18
Trichloroethene	<10	<10	<10	<10	<1.9	10		10/19/2013 RUF	EPA18
TRPH (Based on Benzene)	25000	19737.7	5723.08	25000	8000	100	(a)	10/19/2013 RUF	EPA18
Vinyl chloride	<10	<10	<10	<10	<3.9	10		10/19/2013 RUF	EPA18

Qualifiers:

< Less than the indicated limit of detection (LOD)

H Holding time for preparation or analysis

B Analyte detected in the associated Method Blank

(a) Analysis indicates possible breakthrough; back section result is greater than

10 % of the front section result.

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Arcadis Work Order Number 1310E41

Checklist completed by [Signature] Date 10/17/13

Carrier name: FedEx UPS Courier Client US Mail Other

Shipping container/cooler in good condition? Yes No Not Present
Custody seals intact on shipping container/cooler? Yes No Not Present
Custody seals intact on sample bottles? PT 10/17/13 Yes No Not Present
Container/Temp Blank temperature in compliance? ($4^{\circ}\text{C}\pm 2$)* Yes No

Cooler #1 ambient Cooler #2 Cooler #3 Cooler #4 Cooler #5 Cooler #6

Chain of custody present? Yes No
Chain of custody signed when relinquished and received? Yes No
Chain of custody agrees with sample labels? Yes No
Samples in proper container/bottle? Yes No
Sample containers intact? Yes No
Sufficient sample volume for indicated test? Yes No
All samples received within holding time? Yes No
Was TAT marked on the COC? Yes No
Proceed with Standard TAT as per project history? Yes No Not Applicable
Water - VOA vials have zero headspace? No VOA vials submitted Yes No
Water - pH acceptable upon receipt? Yes No Not Applicable

Adjusted? Checked by _____
Sample Condition: Good Other(Explain) _____
(For diffusive samples or AIHA lead) Is a known blank included? Yes No

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

Client: Arcadis
Project: Lafarge East Point
Lab Order: 1310E41

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1310E41-001A	SVE-INF	10/16/2013 8:40:00AM	Air	Aromatic Volatiles in Air		10/17/2013	10/19/2013
1310E41-001A	SVE-INF	10/16/2013 8:40:00AM	Air	Chlorinated Volatiles in Air		10/17/2013	10/19/2013
1310E41-001A	SVE-INF	10/16/2013 8:40:00AM	Air	Chlorinated Volatiles in Air		10/17/2013	10/21/2013
1310E41-001A	SVE-INF	10/16/2013 8:40:00AM	Air	Chlorinated Volatiles in Air		10/17/2013	10/22/2013
1310E41-001A	SVE-INF	10/16/2013 8:40:00AM	Air	Volatile Hydrocarbons in Air		10/17/2013	10/19/2013
1310E41-002A	SVE-EFF	10/16/2013 8:50:00AM	Air	Aromatic Volatiles in Air		10/17/2013	10/19/2013
1310E41-002A	SVE-EFF	10/16/2013 8:50:00AM	Air	Chlorinated Volatiles in Air		10/17/2013	10/19/2013
1310E41-002A	SVE-EFF	10/16/2013 8:50:00AM	Air	Chlorinated Volatiles in Air		10/17/2013	10/21/2013
1310E41-002A	SVE-EFF	10/16/2013 8:50:00AM	Air	Chlorinated Volatiles in Air		10/17/2013	10/22/2013
1310E41-002A	SVE-EFF	10/16/2013 8:50:00AM	Air	Volatile Hydrocarbons in Air		10/17/2013	10/19/2013
1310E41-002A	SVE-EFF	10/16/2013 8:50:00AM	Air	Volatile Hydrocarbons in Air		10/17/2013	10/21/2013

Client: Arcadis
Project Name: Lafarge East Point
Workorder: 1310E41

ANALYTICAL QC SUMMARY REPORT

BatchID: 182484

Sample ID: MB-182484	Client ID:	Units: ug, Total	Prep Date: 10/17/2013	Run No: 254354							
SampleType: MBLK	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 182484	Analysis Date: 10/18/2013	Seq No: 5340878							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane
 1,1-Dichloroethene
 Carbon tetrachloride
 Chloroform
 cis-1,2-Dichloroethene
 Methylene chloride
 Tetrachloroethene
 trans-1,2-Dichloroethene
 Trichloroethene
 Vinyl chloride

BRL
 BRL
 BRL
 BRL
 BRL
 BRL
 BRL
 BRL
 BRL
 BRL

10
 10
 10
 10
 10
 10
 10
 10
 10
 10

Sample ID: MB-182484	Client ID:	Units: ug, Total	Prep Date: 10/17/2013	Run No: 254355							
SampleType: MBLK	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 182484	Analysis Date: 10/18/2013	Seq No: 5341055							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2-Butanone
 4-Methyl-2-pentanone
 Acetone
 Diethyl ether
 n-Heptane
 n-Hexane

BRL
 BRL
 BRL
 BRL
 BRL
 BRL

10
 10
 10
 10
 10
 10

Sample ID: MB-182484	Client ID:	Units: ug, Total	Prep Date: 10/17/2013	Run No: 254356							
SampleType: MBLK	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 182484	Analysis Date: 10/18/2013	Seq No: 5341119							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene
 Ethylbenzene

BRL
 BRL

10
 10

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Arcadis
Project Name: Lafarge East Point
Workorder: 1310E41

ANALYTICAL QC SUMMARY REPORT

BatchID: 182484

Sample ID: MB-182484	Client ID:	Units: ug, Total	Prep Date: 10/17/2013	Run No: 254356							
SampleType: MBLK	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 182484	Analysis Date: 10/18/2013	Seq No: 5341119							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

m,p-Xylene
Methyl tert-butyl ether
Naphthalene
o-Xylene
Toluene
TRPH (Based on Benzene)

BRL 20
BRL 10
BRL 10
BRL 10
BRL 10
BRL 100

Sample ID: MB-182484	Client ID:	Units: ug, Total	Prep Date: 10/17/2013	Run No: 254392							
SampleType: MBLK	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 182484	Analysis Date: 10/21/2013	Seq No: 5341598							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Freon 141B

BRL 10

Sample ID: LCS-182484	Client ID:	Units: ug, Total	Prep Date: 10/17/2013	Run No: 254354							
SampleType: LCS	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 182484	Analysis Date: 10/18/2013	Seq No: 5340879							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane
Carbon tetrachloride
Chloroform
Methylene chloride
Tetrachloroethene
Trichloroethene

101.8 10 100.0 102 84.6 121
105.5 10 100.0 105 84.6 124
99.82 10 100.0 99.8 82.7 117
104.6 10 100.0 105 80 116
101.5 10 100.0 101 80 118
102.7 10 100.0 103 80 118

Sample ID: LCS-182484	Client ID:	Units: ug, Total	Prep Date: 10/17/2013	Run No: 254355							
SampleType: LCS	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 182484	Analysis Date: 10/18/2013	Seq No: 5341056							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Qualifiers: > Greater than Result value
BRL Below reporting limit
J Estimated value detected below Reporting Limit
Rpt Lim Reporting Limit

< Less than Result value
E Estimated (value above quantitation range)
N Analyte not NELAC certified
S Spike Recovery outside limits due to matrix

B Analyte detected in the associated method blank
H Holding times for preparation or analysis exceeded
R RPD outside limits due to matrix

Client: Arcadis
Project Name: Lafarge East Point
Workorder: 1310E41

ANALYTICAL QC SUMMARY REPORT

BatchID: 182484

Sample ID: LCS-182484	Client ID:	Units: ug, Total	Prep Date: 10/17/2013	Run No: 254355							
SampleType: LCS	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 182484	Analysis Date: 10/18/2013	Seq No: 5341056							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2-Butanone	89.81	10	100.0		89.8	78.6	120				
4-Methyl-2-pentanone	97.13	10	100.0		97.1	80	120				
Acetone	78.25	10	100.0		78.3	70	120				
Diethyl ether	94.09	10	100.0		94.1	80	120				
n-Heptane	102.1	10	100.0		102	80	122				
n-Hexane	103.3	10	100.0		103	80	121				

Sample ID: LCS-182484	Client ID:	Units: ug, Total	Prep Date: 10/17/2013	Run No: 254356							
SampleType: LCS	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 182484	Analysis Date: 10/18/2013	Seq No: 5341120							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene	102.4	10	100.0		102	80	120				
Ethylbenzene	104.1	10	100.0		104	80	116				
m,p-Xylene	205.2	20	200.0		103	80	120				
Methyl tert-butyl ether	81.74	10	100.0		81.7	80	120				
Naphthalene	45.55	10	100.0		45.6	34.6	100				
o-Xylene	98.07	10	100.0		98.1	80	120				
Toluene	101.4	10	100.0		101	80	120				

Sample ID: LCS-182484-2	Client ID:	Units: ug, Total	Prep Date: 10/17/2013	Run No: 254354							
SampleType: LCS	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 182484	Analysis Date: 10/18/2013	Seq No: 5340980							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	98.66	10	100.0		98.7	85.1	120				
cis-1,2-Dichloroethene	103.7	10	100.0		104	80	119				
trans-1,2-Dichloroethene	99.44	10	100.0		99.4	85.7	117				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
Project Name: Lafarge East Point
Workorder: 1310E41

ANALYTICAL QC SUMMARY REPORT**BatchID: 182484**

Sample ID: LCS-182484-3	Client ID:	Units: ug, Total	Prep Date: 10/17/2013	Run No: 254354							
SampleType: LCS	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 182484	Analysis Date: 10/19/2013	Seq No: 5340983							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Vinyl chloride 17.33 10 25.00 69.3 61.2 120

Sample ID: LCSD-182484	Client ID:	Units: ug, Total	Prep Date: 10/17/2013	Run No: 254354							
SampleType: LCSD	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 182484	Analysis Date: 10/18/2013	Seq No: 5340977							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane 103.5 10 100.0 104 84.6 121 101.8 1.66 20
Carbon tetrachloride 106.6 10 100.0 107 84.6 124 105.5 1.10 20
Chloroform 101.3 10 100.0 101 82.7 117 99.82 1.43 20
Methylene chloride 106.1 10 100.0 106 80 116 104.6 1.42 20
Tetrachloroethene 102.9 10 100.0 103 80 118 101.5 1.40 20
Trichloroethene 105.8 10 100.0 106 80 118 102.7 2.94 20

Sample ID: LCSD-182484	Client ID:	Units: ug, Total	Prep Date: 10/17/2013	Run No: 254355							
SampleType: LCSD	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 182484	Analysis Date: 10/18/2013	Seq No: 5341058							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2-Butanone 90.19 10 100.0 90.2 78.6 120 89.81 0.426 20
4-Methyl-2-pentanone 97.98 10 100.0 98.0 80 120 97.13 0.862 20
Acetone 78.34 10 100.0 78.3 70 120 78.25 0.115 20
Diethyl ether 95.43 10 100.0 95.4 80 120 94.09 1.42 20
n-Heptane 103.8 10 100.0 104 80 122 102.1 1.63 20
n-Hexane 105.0 10 100.0 105 80 121 103.3 1.63 20

Sample ID: LCSD-182484	Client ID:	Units: ug, Total	Prep Date: 10/17/2013	Run No: 254356							
SampleType: LCSD	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 182484	Analysis Date: 10/18/2013	Seq No: 5341121							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Arcadis
 Project Name: Lafarge East Point
 Workorder: 1310E41

ANALYTICAL QC SUMMARY REPORT

BatchID: 182484

Sample ID: LCSD-182484	Client ID:	Units: ug, Total	Prep Date: 10/17/2013	Run No: 254356							
SampleType: LCSD	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 182484	Analysis Date: 10/18/2013	Seq No: 5341121							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene	103.8	10	100.0		104	80	120	102.4	1.31	20	
Ethylbenzene	105.9	10	100.0		106	80	116	104.1	1.65	20	
m,p-Xylene	208.1	20	200.0		104	80	120	205.2	1.42	20	
Methyl tert-butyl ether	82.79	10	100.0		82.8	80	120	81.74	1.28	20	
Naphthalene	43.58	10	100.0		43.6	34.6	100	45.55	4.42	20	
o-Xylene	99.08	10	100.0		99.1	80	120	98.07	1.03	20	
Toluene	102.8	10	100.0		103	80	120	101.4	1.33	20	

Sample ID: LCSD-182484-2	Client ID:	Units: ug, Total	Prep Date: 10/17/2013	Run No: 254354							
SampleType: LCSD	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 182484	Analysis Date: 10/19/2013	Seq No: 5340981							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	99.31	10	100.0		99.3	85.1	120	98.66	0.655	20	
cis-1,2-Dichloroethene	105.1	10	100.0		105	80	119	103.7	1.28	20	
trans-1,2-Dichloroethene	100.2	10	100.0		100	85.7	117	99.44	0.745	20	

Sample ID: LCSD-182484-3	Client ID:	Units: ug, Total	Prep Date: 10/17/2013	Run No: 254354							
SampleType: LCSD	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 182484	Analysis Date: 10/19/2013	Seq No: 5340985							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Vinyl chloride	16.80	10	25.00		67.2	61.2	120	17.33	3.09	20	
----------------	-------	----	-------	--	------	------	-----	-------	------	----	--

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		



November 20, 2013

Peter Cornais
Arcadis
2081 Vista Parkway, Suite 200
West Palm Beach FL 33411

TEL: (850) 445-0829
FAX:

RE: Lafarge E.P.

Dear Peter Cornais:

Order No: 1311D70

Analytical Environmental Services, Inc. received 2 samples on 11/18/2013 3:30:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/13-06/30/14.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/15.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Chantelle Kanhai
Project Manager



ANALYTICAL ENVIRONMENTAL SERVICES, INC

3785 Presidential Parkway, Atlanta GA 30340-3704

TEL: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1311070

Date: 11/8/13 Page 1 of 1

COMPANY: ARCADIS		ADDRESS: 1000 Cobb Place Blvd. Bldg 500A Kennesaw, GA 30144			ANALYSIS REQUESTED					Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.		No # of Containers		
PHONE: 770. 428. 9009		FAX: 770. 428. 4004			PRESERVATION (See codes)					REMARKS				
SAMPLED BY: D. Dorminy		SIGNATURE: <i>[Signature]</i>												
#	SAMPLE ID	SAMPLED		Grab	Composite	Matrix (See codes)	PRESERVATION (See codes)					REMARKS	No # of Containers	
		DATE	TIME											
1	SUE INF (111813)	11/8/13	1420	✓		AIR	X							1
2	SUE EFF (111813)	1	1425	✓		↓	X							1
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														
13														
14														
RELINQUISHED BY		DATE/TIME	RECEIVED BY	DATE/TIME	PROJECT INFORMATION					RECEIPT				
1: <i>[Signature]</i>		11/8/13	1: <i>[Signature]</i>	11/8/13	PROJECT NAME: Lafarge E.P.					Total # of Containers 2				
2:			2: <i>[Signature]</i>	3:30	PROJECT #: HT212516-0006-00001					Turnaround Time Request				
3:			3:		SITE ADDRESS: 2675 N. Mart. L St. East Point, GA					<input type="radio"/> Standard 5 Business Days <input type="radio"/> 2 Business Day Rush <input type="radio"/> Next Business Day Rush <input checked="" type="radio"/> Same Day Rush (auth req.) <input type="radio"/> Other				
SPECIAL INSTRUCTIONS/COMMENTS:		SHIPMENT METHOD			INVOICE TO:					STATE PROGRAM (if any):				
		OUT VIA: <i>[Signature]</i>			IN VIA:					E-mail? Y/N; Fax? Y/N				
		CLIENT FedEx UPS MAIL COURIER			SEND REPORT TO: peter.cornais@arcadis-us.com					DATA PACKAGE: I II III IV				
		GREYHOUND OTHER			QUOTE #: PO#:									

EPA18 Full List

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES. SAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMPLETION UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water
 PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

White Copy - Original; Page 2 of 1 Client

Analytical Results

for

Arcadis

Date: 20-Nov-13

Workorder: 1311D70

Client Reference: Lafarge E.P.

Analyte	Concentration					Limit of Detection (ug)	Qual	Date Analyzed /Analyst	Test Method
	Total (ug)	Front (ug)	Back (ug)	(mg/m3)	(ppm)				
Client ID: SVE INF (111813)	Lab ID: 1311D70-001A		Date Sampled: 11/18/2013		Media: Tedlar Bag	Air Vol.(L): 1			
1,1,1-Trichloroethane	<10	<10	<10	<10	<1.8	10		11/19/2013 RUF	EPA18
1,1-Dichloroethene	<10	<10	<10	<10	<2.5	10		11/20/2013 RUF	EPA18
2-Butanone	<10	<10	<10	<10	<3.4	10		11/19/2013 RUF	EPA18
4-Methyl-2-pentanone	<10	<10	<10	<10	<2.4	10		11/19/2013 RUF	EPA18
Acetone	<10	<10	<10	<10	<4.2	10		11/19/2013 RUF	EPA18
Benzene	<10	<10	<10	<10	<3.1	10		11/19/2013 RUF	EPA18
Carbon tetrachloride	<10	<10	<10	<10	<1.6	10		11/19/2013 RUF	EPA18
Chloroform	<10	<10	<10	<10	<2.0	10		11/19/2013 RUF	EPA18
cis-1,2-Dichloroethene	300	133.516	169.474	300	76	10	(a)	11/20/2013 RUF	EPA18
Diethyl ether	<10	<10	<10	<10	<3.3	10		11/19/2013 RUF	EPA18
Ethylbenzene	210	206.368	<10	210	48	10		11/19/2013 RUF	EPA18
Freon 141B	<10	<10	<10	<10	<2.1	10		11/19/2013 RUF	EPA18
m,p-Xylene	720	716.122	<20	720	170	20		11/19/2013 RUF	EPA18
Methyl tert-butyl ether	<10	<10	<10	<10	<2.8	10		11/19/2013 RUF	EPA18
Methylene chloride	<10	<10	<10	<10	<2.9	10		11/19/2013 RUF	EPA18
n-Heptane	2000	1799.18	173.92	2000	480	10		11/19/2013 RUF	EPA18
n-Hexane	6600	4295.26	2337.1	6600	1900	100	(a)	11/19/2013 RUF	EPA18
Naphthalene	<10	<10	<10	<10	<1.9	10		11/19/2013 RUF	EPA18
o-Xylene	110	110.462	<10	110	25	10		11/19/2013 RUF	EPA18
Tetrachloroethene	<10	<10	<10	<10	<1.5	10		11/19/2013 RUF	EPA18
Toluene	3000	2986.97	60.299	3000	810	100		11/19/2013 RUF	EPA18
trans-1,2-Dichloroethene	<10	<10	<10	<10	<2.5	10		11/20/2013 RUF	EPA18
Trichloroethene	800	643.328	161.083	800	150	10	(a)	11/19/2013 RUF	EPA18
TRPH (Based on Benzene)	31000	23877.3	7297.19	31000	9800	100	E(a)	11/19/2013 RUF	EPA18
Vinyl chloride	<10	<10	<10	<10	<3.9	10		11/19/2013 RUF	EPA18

Client ID: SVE EFF (111813)	Lab ID: 1311D70-002A		Date Sampled: 11/18/2013		Media: Tedlar Bag	Air Vol.(L): 1			
1,1,1-Trichloroethane	<10	<10	<10	<10	<1.8	10		11/19/2013 RUF	EPA18
1,1-Dichloroethene	<10	<10	<10	<10	<2.5	10		11/20/2013 RUF	EPA18
2-Butanone	<10	<10	<10	<10	<3.4	10		11/19/2013 RUF	EPA18
4-Methyl-2-pentanone	<10	<10	<10	<10	<2.4	10		11/19/2013 RUF	EPA18
Acetone	<10	<10	<10	<10	<4.2	10		11/19/2013 RUF	EPA18
Benzene	<10	<10	<10	<10	<3.1	10		11/19/2013 RUF	EPA18
Carbon tetrachloride	<10	<10	<10	<10	<1.6	10		11/19/2013 RUF	EPA18
Chloroform	<10	<10	<10	<10	<2.0	10		11/19/2013 RUF	EPA18
cis-1,2-Dichloroethene	<10	<10	<10	<10	<2.5	10		11/20/2013 RUF	EPA18
Diethyl ether	<10	<10	<10	<10	<3.3	10		11/19/2013 RUF	EPA18
Ethylbenzene	<10	<10	<10	<10	<2.3	10		11/19/2013 RUF	EPA18
Freon 141B	<10	<10	<10	<10	<2.1	10		11/19/2013 RUF	EPA18

Qualifiers:

< Less than the indicated limit of detection (LOD)

H Holding time for preparation or analysis

B Analyte detected in the associated Method Blank

(a) Analysis indicates possible breakthrough; back section result is greater than

10 % of the front section result.

**Analytical Results
for**

Arcadis

Date: 20-Nov-13

Workorder: 1311D70

Client Reference: Lafarge E.P.

Analyte	Concentration					Limit of Detection (ug)	Qual	Date Analyzed /Analyst	Test Method
	Total (ug)	Front (ug)	Back (ug)	(mg/m3)	(ppm)				
m,p-Xylene	<20	<20	<20	<20	<4.6	20		11/19/2013 RUF	EPA18
Methyl tert-butyl ether	<10	<10	<10	<10	<2.8	10		11/19/2013 RUF	EPA18
Methylene chloride	<10	<10	<10	<10	<2.9	10		11/19/2013 RUF	EPA18
n-Heptane	<10	<10	<10	<10	<2.4	10		11/19/2013 RUF	EPA18
n-Hexane	<10	<10	<10	<10	<2.8	10		11/19/2013 RUF	EPA18
Naphthalene	<10	<10	<10	<10	<1.9	10		11/19/2013 RUF	EPA18
o-Xylene	<10	<10	<10	<10	<2.3	10		11/19/2013 RUF	EPA18
Tetrachloroethene	<10	<10	<10	<10	<1.5	10		11/19/2013 RUF	EPA18
Toluene	<10	<10	<10	<10	<2.6	10		11/19/2013 RUF	EPA18
trans-1,2-Dichloroethene	<10	<10	<10	<10	<2.5	10		11/20/2013 RUF	EPA18
Trichloroethene	<10	<10	<10	<10	<1.9	10		11/19/2013 RUF	EPA18
TRPH (Based on Benzene)	<100	<100	<100	<100	<31	100		11/19/2013 RUF	EPA18
Vinyl chloride	<10	<10	<10	<10	<3.9	10		11/19/2013 RUF	EPA18

Qualifiers:

< Less than the indicated limit of detection (LOD)

H Holding time for preparation or analysis

B Analyte detected in the associated Method Blank

(a) Analysis indicates possible breakthrough; back section result is greater than

10 % of the front section result.

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Arcadis Work Order Number 1311070

Checklist completed by [Signature] Date 11/18/13
Signature Date

Carrier name: FedEx UPS Courier Client US Mail Other

Shipping container/cooler in good condition? Yes No Not Present
Custody seals intact on shipping container/cooler? Yes No Not Present
Custody seals intact on sample bottles? Yes No Not Present
Container/Temp Blank temperature in compliance? (4°C±2)* Yes No

Cooler #1 Ambid Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present? Yes No
Chain of custody signed when relinquished and received? Yes No
Chain of custody agrees with sample labels? Yes No
Samples in proper container/bottle? Yes No
Sample containers intact? Yes No
Sufficient sample volume for indicated test? Yes No
All samples received within holding time? Yes No
Was TAT marked on the COC? Yes No
Proceed with Standard TAT as per project history? Yes No Not Applicable
Water - VOA vials have zero headspace? No VOA vials submitted Yes No
Water - pH acceptable upon receipt? Yes No Not Applicable

Adjusted? _____ Checked by _____
Sample Condition: Good Other(Explain) _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes No

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

Client: Arcadis
Project: Lafarge E.P.
Lab Order: 1311D70

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1311D70-001A	SVE INF (111813)	11/18/2013 2:20:00PM	Air	Aromatic Volatiles in Air		11/19/2013	11/19/2013
1311D70-001A	SVE INF (111813)	11/18/2013 2:20:00PM	Air	Chlorinated Volatiles in Air		11/19/2013	11/19/2013
1311D70-001A	SVE INF (111813)	11/18/2013 2:20:00PM	Air	Chlorinated Volatiles in Air		11/19/2013	11/20/2013
1311D70-001A	SVE INF (111813)	11/18/2013 2:20:00PM	Air	Volatile Hydrocarbons in Air		11/19/2013	11/19/2013
1311D70-002A	SVE EFF (111813)	11/18/2013 2:25:00PM	Air	Aromatic Volatiles in Air		11/19/2013	11/19/2013
1311D70-002A	SVE EFF (111813)	11/18/2013 2:25:00PM	Air	Chlorinated Volatiles in Air		11/19/2013	11/19/2013
1311D70-002A	SVE EFF (111813)	11/18/2013 2:25:00PM	Air	Chlorinated Volatiles in Air		11/19/2013	11/20/2013
1311D70-002A	SVE EFF (111813)	11/18/2013 2:25:00PM	Air	Volatile Hydrocarbons in Air		11/19/2013	11/19/2013

Client: Arcadis
 Project Name: Lafarge E.P.
 Workorder: 1311D70

ANALYTICAL QC SUMMARY REPORT

BatchID: 183857

Sample ID: MB-183857	Client ID:	Units: ug, Total	Prep Date: 11/19/2013	Run No: 256110							
SampleType: MBLK	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 183857	Analysis Date: 11/19/2013	Seq No: 5380664							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane
 1,1-Dichloroethene
 Carbon tetrachloride
 Chloroform
 cis-1,2-Dichloroethene
 Freon 141B
 Methylene chloride
 Tetrachloroethene
 trans-1,2-Dichloroethene
 Trichloroethene
 Vinyl chloride

BRL
 BRL

10
 10
 10
 10
 10
 10
 10
 10
 10
 10
 10

Sample ID: MB-183857	Client ID:	Units: ug, Total	Prep Date: 11/19/2013	Run No: 256111							
SampleType: MBLK	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 183857	Analysis Date: 11/19/2013	Seq No: 5380758							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2-Butanone
 4-Methyl-2-pentanone
 Acetone
 Diethyl ether
 n-Heptane
 n-Hexane

BRL
 BRL
 BRL
 BRL
 BRL
 BRL

10
 10
 10
 10
 10
 10

Sample ID: MB-183857	Client ID:	Units: ug, Total	Prep Date: 11/19/2013	Run No: 256112							
SampleType: MBLK	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 183857	Analysis Date: 11/19/2013	Seq No: 5380787							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene

BRL
 10

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Arcadis
 Project Name: Lafarge E.P.
 Workorder: 1311D70

ANALYTICAL QC SUMMARY REPORT

BatchID: 183857

Sample ID: MB-183857	Client ID:	Units: ug, Total	Prep Date: 11/19/2013	Run No: 256112							
SampleType: MBLK	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 183857	Analysis Date: 11/19/2013	Seq No: 5380787							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethylbenzene
 m,p-Xylene
 Methyl tert-butyl ether
 Naphthalene
 o-Xylene
 Toluene
 TRPH (Based on Benzene)

BRL
 BRL
 BRL
 BRL
 BRL
 BRL
 BRL

10
 20
 10
 10
 10
 100

Sample ID: LCS-183857	Client ID:	Units: ug, Total	Prep Date: 11/19/2013	Run No: 256110							
SampleType: LCS	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 183857	Analysis Date: 11/19/2013	Seq No: 5380667							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane
 Carbon tetrachloride
 Chloroform
 Methylene chloride
 Tetrachloroethene
 Trichloroethene

105.8
 108.7
 103.4
 107.6
 104.7
 108.7

10
 10
 10
 10
 10
 10

100.0
 100.0
 100.0
 100.0
 100.0
 100.0

106
 109
 103
 108
 105
 109

85
 85
 83.2
 85
 85
 85

120
 126
 120
 126
 118
 122

Sample ID: LCS-183857	Client ID:	Units: ug, Total	Prep Date: 11/19/2013	Run No: 256111							
SampleType: LCS	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 183857	Analysis Date: 11/19/2013	Seq No: 5380761							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2-Butanone
 4-Methyl-2-pentanone
 Acetone
 Diethyl ether
 n-Heptane

94.96
 100.3
 87.26
 101.9
 105.6

10
 10
 10
 10
 10

100.0
 100.0
 100.0
 100.0
 100.0

95.0
 100
 87.3
 102
 106

74.2
 81.5
 70.1
 79.9
 87

120
 120
 120
 120
 121

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
BRL	Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S Spike Recovery outside limits due to matrix	

Client: Arcadis
Project Name: Lafarge E.P.
Workorder: 1311D70

ANALYTICAL QC SUMMARY REPORT

BatchID: 183857

Sample ID: LCS-183857	Client ID:	Units: ug, Total	Prep Date: 11/19/2013	Run No: 256111							
SampleType: LCS	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 183857	Analysis Date: 11/19/2013	Seq No: 5380761							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

n-Hexane 108.2 10 100.0 108 87.1 123

Sample ID: LCS-183857	Client ID:	Units: ug, Total	Prep Date: 11/19/2013	Run No: 256112							
SampleType: LCS	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 183857	Analysis Date: 11/19/2013	Seq No: 5380788							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene 105.9 10 100.0 106 76 123
 Ethylbenzene 106.7 10 100.0 107 80.2 124
 m,p-Xylene 210.5 20 200.0 105 78 123
 Methyl tert-butyl ether 86.50 10 100.0 86.5 71 120
 Naphthalene 46.60 10 100.0 46.6 34.4 100
 o-Xylene 99.70 10 100.0 99.7 78 118
 Toluene 104.6 10 100.0 105 78.3 121

Sample ID: LCS-183857-2	Client ID:	Units: ug, Total	Prep Date: 11/19/2013	Run No: 256110							
SampleType: LCS	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 183857	Analysis Date: 11/19/2013	Seq No: 5380675							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene 101.1 10 100.0 101 83.6 119
 cis-1,2-Dichloroethene 105.8 10 100.0 106 84.2 123
 trans-1,2-Dichloroethene 101.0 10 100.0 101 85 120

Sample ID: LCS-183857-3	Client ID:	Units: ug, Total	Prep Date: 11/19/2013	Run No: 256110							
SampleType: LCS	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 183857	Analysis Date: 11/19/2013	Seq No: 5380671							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Vinyl chloride 24.64 10 25.00 98.6 60.4 121

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Arcadis
 Project Name: Lafarge E.P.
 Workorder: 1311D70

ANALYTICAL QC SUMMARY REPORT

BatchID: 183857

Sample ID: LCSD-183857	Client ID:	Units: ug, Total	Prep Date: 11/19/2013	Run No: 256110							
SampleType: LCSD	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 183857	Analysis Date: 11/19/2013	Seq No: 5380669							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	105.1	10	100.0		105	85	120	105.8	0.579	15	
Carbon tetrachloride	109.0	10	100.0		109	85	126	108.7	0.276	15	
Chloroform	102.8	10	100.0		103	83.2	120	103.4	0.592	15	
Methylene chloride	106.0	10	100.0		106	85	126	107.6	1.43	15	
Tetrachloroethene	104.2	10	100.0		104	85	118	104.7	0.460	15	
Trichloroethene	107.4	10	100.0		107	85	122	108.7	1.21	15	

Sample ID: LCSD-183857	Client ID:	Units: ug, Total	Prep Date: 11/19/2013	Run No: 256111							
SampleType: LCSD	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 183857	Analysis Date: 11/19/2013	Seq No: 5380763							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2-Butanone	93.66	10	100.0		93.7	74.2	120	94.96	1.38	15	
4-Methyl-2-pentanone	99.38	10	100.0		99.4	81.5	120	100.3	0.960	15	
Acetone	85.74	10	100.0		85.7	70.1	120	87.26	1.76	15	
Diethyl ether	100.8	10	100.0		101	79.9	120	101.9	1.11	15	
n-Heptane	105.0	10	100.0		105	87	121	105.6	0.575	15	
n-Hexane	107.5	10	100.0		107	87.1	123	108.2	0.707	15	

Sample ID: LCSD-183857	Client ID:	Units: ug, Total	Prep Date: 11/19/2013	Run No: 256112							
SampleType: LCSD	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 183857	Analysis Date: 11/19/2013	Seq No: 5380790							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene	105.2	10	100.0		105	76	123	105.9	0.678	15	
Ethylbenzene	106.2	10	100.0		106	80.2	124	106.7	0.486	15	
m,p-Xylene	209.6	20	200.0		105	78	123	210.5	0.446	15	
Methyl tert-butyl ether	85.60	10	100.0		85.6	71	120	86.50	1.05	15	
Naphthalene	45.74	10	100.0		45.7	34.4	100	46.60	1.86	15	
o-Xylene	99.13	10	100.0		99.1	78	118	99.70	0.574	15	

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Arcadis
 Project Name: Lafarge E.P.
 Workorder: 1311D70

ANALYTICAL QC SUMMARY REPORT

BatchID: 183857

Sample ID: LCSD-183857	Client ID:	Units: ug, Total	Prep Date: 11/19/2013	Run No: 256112							
SampleType: LCSD	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 183857	Analysis Date: 11/19/2013	Seq No: 5380790							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Toluene	104.1	10	100.0		104	78.3	121	104.6	0.490	15	
---------	-------	----	-------	--	-----	------	-----	-------	-------	----	--

Sample ID: LCSD-183857-2	Client ID:	Units: ug, Total	Prep Date: 11/19/2013	Run No: 256110							
SampleType: LCSD	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 183857	Analysis Date: 11/19/2013	Seq No: 5380677							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	101.7	10	100.0		102	83.6	119	101.1	0.579	15	
cis-1,2-Dichloroethene	106.5	10	100.0		107	84.2	123	105.8	0.671	15	
trans-1,2-Dichloroethene	102.0	10	100.0		102	85	120	101.0	0.937	15	

Sample ID: LCSD-183857-3	Client ID:	Units: ug, Total	Prep Date: 11/19/2013	Run No: 256110							
SampleType: LCSD	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 183857	Analysis Date: 11/19/2013	Seq No: 5380673							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Vinyl chloride	24.92	10	25.00		99.7	60.4	121	24.64	1.12	19.2	
----------------	-------	----	-------	--	------	------	-----	-------	------	------	--

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
BRL	Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S Spike Recovery outside limits due to matrix	



November 25, 2013

Peter Cornais
Arcadis
2081 Vista Parkway, Suite 200
West Palm Beach FL 33411

TEL: (850) 445-0829
FAX:

RE: Lafarge E.P.

Dear Peter Cornais:

Order No: 1311E54

Analytical Environmental Services, Inc. received 2 samples on 11/19/2013 3:00:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/13-06/30/14.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/15.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Chantelle Kanhai
Project Manager



ANALYTICAL ENVIRONMENTAL SERVICES, INC
 3785 Presidential Parkway, Atlanta GA 30340-3704
 A/E/S TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: **1311E59**

Date: **11/19/13** Page **1** of **1**

COMPANY:		ADDRESS:		ANALYSIS REQUESTED		REMARKS	No # of Containers	
Arcadis		1000 Cobb Place Blvd 19145 500A Kennesaw GA 30144		Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.				
SAMPLED BY: <i>K. Maloney, K. Wamer</i>		SIGNATURE: <i>[Signature]</i>		PRESERVATION (See codes)		Turnaround Time Request Standard 5 Business Days 2 Business Day Rush Next Business Day Rush Same Day Rush (auth req.) Other 3 days	Total # of Containers 2	
#	SAMPLE ID	DATE	TIME	Grab	Composite			Matrix (See codes)
1	SVE-Eff (11/19/13)	11/19/13	1335	X				A
2	SVE-Inf (11/19/13)	11/19/13	1330	X				A
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
RELINQUISHED BY: <i>[Signature]</i>	DATE/TIME RECEIVED BY: <i>N.C. 11/19/13 2:03 pm</i>	DATE/TIME <i>11/19/13 9:00</i>		PROJECT INFORMATION		RECEIPT		
SPECIAL INSTRUCTIONS/COMMENTS: <i>N.C. 11/19/13 3:00P</i>		SHIPMENT METHOD		PROJECT NAME: <i>La farge EP</i>		Turnaround Time Request		
		OUT / / VIA: IN / / VIA:		PROJECT #: <i>HT212446</i>		Standard 5 Business Days		
		CLIENT FedEx UPS MAIL COURIER GREYHOUND OTHER		SITE ADDRESS: <i>2675 N Martin st.</i>		2 Business Day Rush		
				SEND REPORT TO: <i>Peter.Cornais@arcadis-us.com</i>		Next Business Day Rush		
				INVOICE TO: (IF DIFFERENT FROM ABOVE)		Same Day Rush (auth req.)		
				QUOTE #:		Other 3 days		
				PO#:		STATE PROGRAM (if any):		
						E-mail? Y / N; Fax? Y / N		
						DATA PACKAGE: I II III IV		

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES.
 SAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMPLETION UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water
 PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client

Client: Arcadis
Project: Lafarge E.P.
Lab ID: 1311E54

Case Narrative

Per Peter Cornais on 11/19/13 via email, the samples were analyzed with a 2 business day rush turnaround.

Analytical Results

for

Arcadis

Date: 25-Nov-13

Workorder: 1311E54

Client Reference: Lafarge E.P.

Analyte	Concentration					Limit of Detection (ug)	Qual	Date Analyzed /Analyst	Test Method
	Total (ug)	Front (ug)	Back (ug)	(mg/m3)	(ppm)				
Client ID: SVE EFF (111913)	Lab ID: 1311E54-001A		Date Sampled: 11/19/2013		Media: Tedlar Bag	Air Vol.(L): 1			
1,1,1-Trichloroethane	<10	<10	<10	<10	<1.8	10	11/20/2013	RUF	EPA18
1,1-Dichloroethene	<10	<10	<10	<10	<2.5	10	11/20/2013	RUF	EPA18
2-Butanone	<10	<10	<10	<10	<3.4	10	11/20/2013	RUF	EPA18
4-Methyl-2-pentanone	<10	<10	<10	<10	<2.4	10	11/20/2013	RUF	EPA18
Acetone	<10	<10	<10	<10	<4.2	10	11/20/2013	RUF	EPA18
Benzene	<10	<10	<10	<10	<3.1	10	11/20/2013	RUF	EPA18
Carbon tetrachloride	<10	<10	<10	<10	<1.6	10	11/20/2013	RUF	EPA18
Chloroform	<10	<10	<10	<10	<2.0	10	11/20/2013	RUF	EPA18
cis-1,2-Dichloroethene	<10	<10	<10	<10	<2.5	10	11/20/2013	RUF	EPA18
Diethyl ether	<10	<10	<10	<10	<3.3	10	11/20/2013	RUF	EPA18
Ethylbenzene	<10	<10	<10	<10	<2.3	10	11/20/2013	RUF	EPA18
Freon 141B	<10	<10	<10	<10	<2.1	10	11/20/2013	RUF	EPA18
m,p-Xylene	<20	<20	<20	<20	<4.6	20	11/20/2013	RUF	EPA18
Methyl tert-butyl ether	<10	<10	<10	<10	<2.8	10	11/20/2013	RUF	EPA18
Methylene chloride	<10	<10	<10	<10	<2.9	10	11/20/2013	RUF	EPA18
n-Heptane	<10	<10	<10	<10	<2.4	10	11/20/2013	RUF	EPA18
n-Hexane	<10	<10	<10	<10	<2.8	10	11/20/2013	RUF	EPA18
Naphthalene	<10	<10	<10	<10	<1.9	10	11/20/2013	RUF	EPA18
o-Xylene	<10	<10	<10	<10	<2.3	10	11/20/2013	RUF	EPA18
Tetrachloroethene	<10	<10	<10	<10	<1.5	10	11/20/2013	RUF	EPA18
Toluene	<10	<10	<10	<10	<2.6	10	11/20/2013	RUF	EPA18
trans-1,2-Dichloroethene	<10	<10	<10	<10	<2.5	10	11/20/2013	RUF	EPA18
Trichloroethene	<10	<10	<10	<10	<1.9	10	11/20/2013	RUF	EPA18
TRPH (Based on Benzene)	<100	<100	<100	<100	<31	100	11/20/2013	RUF	EPA18
Vinyl chloride	<10	<10	<10	<10	<3.9	10	11/20/2013	RUF	EPA18

Client ID: SVE INF (111913)	Lab ID: 1311E54-002A		Date Sampled: 11/19/2013		Media: Tedlar Bag	Air Vol.(L): 1			
1,1,1-Trichloroethane	<10	<10	<10	<10	<1.8	10	11/20/2013	RUF	EPA18
1,1-Dichloroethene	<10	<10	<10	<10	<2.5	10	11/20/2013	RUF	EPA18
2-Butanone	<10	<10	<10	<10	<3.4	10	11/20/2013	RUF	EPA18
4-Methyl-2-pentanone	<10	<10	<10	<10	<2.4	10	11/20/2013	RUF	EPA18
Acetone	<10	<10	<10	<10	<4.2	10	11/20/2013	RUF	EPA18
Benzene	<10	<10	<10	<10	<3.1	10	11/20/2013	RUF	EPA18
Carbon tetrachloride	<10	<10	<10	<10	<1.6	10	11/20/2013	RUF	EPA18
Chloroform	<10	<10	<10	<10	<2.0	10	11/20/2013	RUF	EPA18
cis-1,2-Dichloroethene	170	158.062	15.002	170	44	10	11/20/2013	RUF	EPA18
Diethyl ether	<10	<10	<10	<10	<3.3	10	11/20/2013	RUF	EPA18
Ethylbenzene	130	133.688	<10	130	31	10	11/20/2013	RUF	EPA18
Freon 141B	<10	<10	<10	<10	<2.1	10	11/20/2013	RUF	EPA18

Qualifiers:

< Less than the indicated limit of detection (LOD)

H Holding time for preparation or analysis

B Analyte detected in the associated Method Blank

(a) Analysis indicates possible breakthrough; back section result is greater than

10 % of the front section result.

**Analytical Results
for**

Arcadis

Date: 25-Nov-13

Workorder: 1311E54

Client Reference: Lafarge E.P.

Analyte	Concentration					Limit of Detection (ug)	Qual	Date Analyzed /Analyst	Test Method
	Total (ug)	Front (ug)	Back (ug)	(mg/m3)	(ppm)				
m,p-Xylene	460	458.637	<20	460	110	20	11/20/2013	RUF	EPA18
Methyl tert-butyl ether	<10	<10	<10	<10	<2.8	10	11/20/2013	RUF	EPA18
Methylene chloride	<10	<10	<10	<10	<2.9	10	11/20/2013	RUF	EPA18
n-Heptane	1100	1134.52	<10	1100	280	10	11/20/2013	RUF	EPA18
n-Hexane	3200	3173	39.274	3200	910	100	11/21/2013	RUF	EPA18
Naphthalene	<10	<10	<10	<10	<1.9	10	11/20/2013	RUF	EPA18
o-Xylene	67	67.207	<10	67	16	10	11/20/2013	RUF	EPA18
Tetrachloroethene	<10	<10	<10	<10	<1.5	10	11/20/2013	RUF	EPA18
Toluene	1800	1772.14	<10	1800	470	10	11/20/2013	RUF	EPA18
trans-1,2-Dichloroethene	<10	<10	<10	<10	<2.5	10	11/20/2013	RUF	EPA18
Trichloroethene	630	629.903	5.076	630	120	10	11/20/2013	RUF	EPA18
TRPH (Based on Benzene)	17000	17241.2	172.413	17000	5500	100	11/20/2013	RUF	EPA18
Vinyl chloride	<10	<10	<10	<10	<3.9	10	11/20/2013	RUF	EPA18

Qualifiers:

< Less than the indicated limit of detection (LOD)

H Holding time for preparation or analysis

B Analyte detected in the associated Method Blank

(a) Analysis indicates possible breakthrough; back section result is greater than

10 % of the front section result.

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Arcadis

Work Order Number 1311E54

Checklist completed by [Signature] Date 11/19/13

Carrier name: FedEx UPS Courier Client US Mail Other

Shipping container/cooler in good condition? Yes No Not Present

Custody seals intact on shipping container/cooler? Yes No Not Present

Custody seals intact on sample bottles? Yes No Not Present

Container/Temp Blank temperature in compliance? (4°C ± 2)* Yes No

Cooler #1 A Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler #5 _____ Cooler #6 _____

Chain of custody present? Yes No

Chain of custody signed when relinquished and received? Yes No

Chain of custody agrees with sample labels? Yes No

Samples in proper container/bottle? Yes No

Sample containers intact? Yes No

Sufficient sample volume for indicated test? Yes No

All samples received within holding time? Yes No

Was TAT marked on the COC? Yes No

Proceed with Standard TAT as per project history? Yes No Not Applicable

Water - VOA vials have zero headspace? No VOA vials submitted Yes No

Water - pH acceptable upon receipt? Yes No Not Applicable

Sample Condition: Good Other(Explain) _____ Adjusted? _____ Checked by _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes No

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

Client: Arcadis
Project: Lafarge E.P.
Lab Order: 1311E54

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1311E54-001A	SVE EFF (111913)	11/19/2013 12:00:00AM	Air	Aromatic Volatiles in Air		11/20/2013	11/20/2013
1311E54-001A	SVE EFF (111913)	11/19/2013 12:00:00AM	Air	Chlorinated Volatiles in Air		11/20/2013	11/20/2013
1311E54-001A	SVE EFF (111913)	11/19/2013 12:00:00AM	Air	Volatile Hydrocarbons in Air		11/20/2013	11/20/2013
1311E54-002A	SVE INF (111913)	11/19/2013 12:00:00AM	Air	Aromatic Volatiles in Air		11/20/2013	11/20/2013
1311E54-002A	SVE INF (111913)	11/19/2013 12:00:00AM	Air	Chlorinated Volatiles in Air		11/20/2013	11/20/2013
1311E54-002A	SVE INF (111913)	11/19/2013 12:00:00AM	Air	Volatile Hydrocarbons in Air		11/20/2013	11/20/2013
1311E54-002A	SVE INF (111913)	11/19/2013 12:00:00AM	Air	Volatile Hydrocarbons in Air		11/20/2013	11/21/2013

Client: Arcadis
 Project Name: Lafarge E.P.
 Workorder: 1311E54

ANALYTICAL QC SUMMARY REPORT

BatchID: 183951

Sample ID: MB-183951	Client ID:	Units: ug, Total	Prep Date: 11/20/2013	Run No: 256306							
SampleType: MBLK	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 183951	Analysis Date: 11/20/2013	Seq No: 5383517							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane
 1,1-Dichloroethene
 Carbon tetrachloride
 Chloroform
 cis-1,2-Dichloroethene
 Freon 141B
 Methylene chloride
 Tetrachloroethene
 trans-1,2-Dichloroethene
 Trichloroethene
 Vinyl chloride

BRL
 BRL

10
 10
 10
 10
 10
 10
 10
 10
 10
 10
 10

Sample ID: MB-183951	Client ID:	Units: ug, Total	Prep Date: 11/20/2013	Run No: 256307							
SampleType: MBLK	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 183951	Analysis Date: 11/20/2013	Seq No: 5383615							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2-Butanone
 4-Methyl-2-pentanone
 Acetone
 Diethyl ether
 n-Heptane
 n-Hexane

BRL
 BRL
 BRL
 BRL
 BRL
 BRL

10
 10
 10
 10
 10
 10

Sample ID: MB-183951	Client ID:	Units: ug, Total	Prep Date: 11/20/2013	Run No: 256308							
SampleType: MBLK	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 183951	Analysis Date: 11/20/2013	Seq No: 5383683							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene

BRL
 10

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Arcadis
 Project Name: Lafarge E.P.
 Workorder: 1311E54

ANALYTICAL QC SUMMARY REPORT

BatchID: 183951

Sample ID: MB-183951	Client ID:	Units: ug, Total	Prep Date: 11/20/2013	Run No: 256308							
SampleType: MBLK	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 183951	Analysis Date: 11/20/2013	Seq No: 5383683							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethylbenzene
 m,p-Xylene
 Methyl tert-butyl ether
 Naphthalene
 o-Xylene
 Toluene
 TRPH (Based on Benzene)

BRL
 BRL
 BRL
 BRL
 BRL
 BRL
 BRL

10
 20
 10
 10
 10
 10
 100

Sample ID: LCS-183951	Client ID:	Units: ug, Total	Prep Date: 11/20/2013	Run No: 256306							
SampleType: LCS	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 183951	Analysis Date: 11/20/2013	Seq No: 5383518							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane
 Carbon tetrachloride
 Chloroform
 Methylene chloride
 Tetrachloroethene
 Trichloroethene

105.7
 108.6
 104.5
 107.1
 104.6
 106.6

10
 10
 10
 10
 10
 10

100.0
 100.0
 100.0
 100.0
 100.0
 100.0

106
 109
 104
 107
 105
 107

85
 85
 83.2
 85
 85
 85

120
 126
 120
 126
 118
 122

Sample ID: LCS-183951	Client ID:	Units: ug, Total	Prep Date: 11/20/2013	Run No: 256307							
SampleType: LCS	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 183951	Analysis Date: 11/20/2013	Seq No: 5383617							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2-Butanone
 4-Methyl-2-pentanone
 Acetone
 Diethyl ether
 n-Heptane

94.72
 100.0
 86.60
 101.1
 105.6

10
 10
 10
 10
 10

100.0
 100.0
 100.0
 100.0
 100.0

94.7
 100
 86.6
 101
 106

74.2
 81.5
 70.1
 79.9
 87

120
 120
 120
 120
 121

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Arcadis
Project Name: Lafarge E.P.
Workorder: 1311E54

ANALYTICAL QC SUMMARY REPORT

BatchID: 183951

Sample ID: LCS-183951	Client ID:	Units: ug, Total	Prep Date: 11/20/2013	Run No: 256307							
SampleType: LCS	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 183951	Analysis Date: 11/20/2013	Seq No: 5383617							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

n-Hexane 108.0 10 100.0 108 87.1 123

Sample ID: LCS-183951	Client ID:	Units: ug, Total	Prep Date: 11/20/2013	Run No: 256308							
SampleType: LCS	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 183951	Analysis Date: 11/20/2013	Seq No: 5383686							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene 105.8 10 100.0 106 76 123
 Ethylbenzene 106.9 10 100.0 107 80.2 124
 m,p-Xylene 211.0 20 200.0 106 78 123
 Methyl tert-butyl ether 86.18 10 100.0 86.2 71 120
 Naphthalene 46.06 10 100.0 46.1 34.4 100
 o-Xylene 99.47 10 100.0 99.5 78 118
 Toluene 104.5 10 100.0 105 78.3 121

Sample ID: LCS-183951-2	Client ID:	Units: ug, Total	Prep Date: 11/20/2013	Run No: 256306							
SampleType: LCS	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 183951	Analysis Date: 11/20/2013	Seq No: 5383526							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene 99.91 10 100.0 99.9 83.6 119
 cis-1,2-Dichloroethene 104.9 10 100.0 105 84.2 123
 trans-1,2-Dichloroethene 100.6 10 100.0 101 85 120

Sample ID: LCS-183951-3	Client ID:	Units: ug, Total	Prep Date: 11/20/2013	Run No: 256306							
SampleType: LCS	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 183951	Analysis Date: 11/20/2013	Seq No: 5383521							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Vinyl chloride 25.02 10 25.00 100 60.4 121

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Arcadis
 Project Name: Lafarge E.P.
 Workorder: 1311E54

ANALYTICAL QC SUMMARY REPORT

BatchID: 183951

Sample ID: LCSD-183951	Client ID:	Units: ug, Total	Prep Date: 11/20/2013	Run No: 256306							
SampleType: LCSD	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 183951	Analysis Date: 11/20/2013	Seq No: 5383519							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	105.0	10	100.0		105	85	120	105.7	0.669	15	
Carbon tetrachloride	107.9	10	100.0		108	85	126	108.6	0.627	15	
Chloroform	103.9	10	100.0		104	83.2	120	104.5	0.545	15	
Methylene chloride	105.2	10	100.0		105	85	126	107.1	1.85	15	
Tetrachloroethene	104.0	10	100.0		104	85	118	104.6	0.590	15	
Trichloroethene	107.2	10	100.0		107	85	122	106.6	0.556	15	

Sample ID: LCSD-183951	Client ID:	Units: ug, Total	Prep Date: 11/20/2013	Run No: 256307							
SampleType: LCSD	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 183951	Analysis Date: 11/20/2013	Seq No: 5383618							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2-Butanone	94.07	10	100.0		94.1	74.2	120	94.72	0.694	15	
4-Methyl-2-pentanone	99.27	10	100.0		99.3	81.5	120	100.0	0.755	15	
Acetone	85.82	10	100.0		85.8	70.1	120	86.60	0.905	15	
Diethyl ether	100.3	10	100.0		100	79.9	120	101.1	0.753	15	
n-Heptane	104.7	10	100.0		105	87	121	105.6	0.843	15	
n-Hexane	107.1	10	100.0		107	87.1	123	108.0	0.852	15	

Sample ID: LCSD-183951	Client ID:	Units: ug, Total	Prep Date: 11/20/2013	Run No: 256308							
SampleType: LCSD	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 183951	Analysis Date: 11/20/2013	Seq No: 5383690							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene	104.9	10	100.0		105	76	123	105.8	0.850	15	
Ethylbenzene	106.2	10	100.0		106	80.2	124	106.9	0.735	15	
m,p-Xylene	209.4	20	200.0		105	78	123	211.0	0.802	15	
Methyl tert-butyl ether	85.07	10	100.0		85.1	71	120	86.18	1.30	15	
Naphthalene	45.49	10	100.0		45.5	34.4	100	46.06	1.26	15	
o-Xylene	98.74	10	100.0		98.7	78	118	99.47	0.738	15	

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Arcadis
 Project Name: Lafarge E.P.
 Workorder: 1311E54

ANALYTICAL QC SUMMARY REPORT

BatchID: 183951

Sample ID: LCSD-183951	Client ID:	Units: ug, Total	Prep Date: 11/20/2013	Run No: 256308							
SampleType: LCSD	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 183951	Analysis Date: 11/20/2013	Seq No: 5383690							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Toluene	103.8	10	100.0		104	78.3	121	104.5	0.712	15	
---------	-------	----	-------	--	-----	------	-----	-------	-------	----	--

Sample ID: LCSD-183951-2	Client ID:	Units: ug, Total	Prep Date: 11/20/2013	Run No: 256306							
SampleType: LCSD	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 183951	Analysis Date: 11/20/2013	Seq No: 5383528							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	100.6	10	100.0		101	83.6	119	99.91	0.640	15	
cis-1,2-Dichloroethene	107.0	10	100.0		107	84.2	123	104.9	1.95	15	
trans-1,2-Dichloroethene	102.2	10	100.0		102	85	120	100.6	1.58	15	

Sample ID: LCSD-183951-3	Client ID:	Units: ug, Total	Prep Date: 11/20/2013	Run No: 256306							
SampleType: LCSD	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 183951	Analysis Date: 11/20/2013	Seq No: 5383523							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Vinyl chloride	25.11	10	25.00		100	60.4	121	0	200	19.2	R
----------------	-------	----	-------	--	-----	------	-----	---	-----	------	---

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		



December 03, 2013

Peter Cornais
Arcadis
2081 Vista Parkway, Suite 200
West Palm Beach FL 33411

TEL: (850) 445-0829
FAX:

RE: Lafarge E.P.

Dear Peter Cornais:

Order No: 1311E56

Analytical Environmental Services, Inc. received 7 samples on 11/21/2013 2:40:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/13-06/30/14.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/15.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Chantelle Kanhai
Project Manager



ANALYTICAL ENVIRONMENTAL SERVICES, INC
3785 Presidential Parkway, Atlanta GA 30340-3704

AES TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: **1311ES0**

Date: **10/21/17** Page **1** of **7**

#	SAMPLE ID	DATE	TIME	Grab	Composite	Matrix (See codes)	PRESERVATION (See codes)		REMARKS	No # of Containers
							DATE	TIME		
1	EFF	10/20/17	1607	✓		A			Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.	
2	INE	10/20/17	1410	✓		A				
3	SVE - Zone 4	10/21/17	1305	✓		A				
4	SVE - Zone 5	10/21/17	1300	✓		A				
5	SVE - EFF	10/21/17	1245	✓		A				
6	SVE - Zone 2	10/21/17	1255	✓		A				
7	SVE - Zone 1	10/21/17	1250	✓		A				
8										
9										
10										
11										
12										
13										
14										

RELINQUISHED BY: Max Myers	DATE/TIME: 10/21/17, 1440
RECEIVED BY: <i>[Signature]</i>	DATE/TIME: 10/21/17 2:40

PROJECT NAME: Leage EP	PROJECT INFORMATION
PROJECT #: HTZ12-516	
SITE ADDRESS: 3000 27th N. Ave. SE	
SEND REPORT TO: John Carver	
INVOICE TO: John Carver	
(IF DIFFERENT FROM ABOVE)	
SHIPMENT METHOD: Greyhound	
OUT: 10/21/17	
IN: 10/21/17	

STATE PROGRAM (if any):	E-mail? Y / N;	Fax? Y / N
DATA PACKAGE: I II III IV		
TURNAROUND TIME REQUEST	Total # of Containers: 7	
<input checked="" type="radio"/> Standard 5 Business Days		
<input type="radio"/> 2 Business Day Rush		
<input type="radio"/> Next Business Day Rush		
<input type="radio"/> Same Day Rush (auth req.)		
<input type="radio"/> Other		

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES.
 SAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMPLETION UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water
 PRESERVATIVE CODES: H+1 = Hydrochloric acid + ice I = Ice only N = Nitric acid S+1 = Sulfuric acid + ice SM+1 = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client

Client: Arcadis
Project: Lafarge E.P.
Lab ID: 1311E56

Case Narrative

Sample Receipt Nonconformance:

The collection month for the samples is listed as November on the sample labels, and not October as listed on the Chain of Custody.

Analytical Results

for

Arcadis

Date: 3-Dec-13

Workorder: 1311E56

Client Reference: Lafarge E.P.

Analyte	Concentration					Limit of Detection (ug)	Qual	Date Analyzed /Analyst	Test Method
	Total (ug)	Front (ug)	Back (ug)	(mg/m3)	(ppm)				
Client ID: EFF	Lab ID: 1311E56-001A		Date Sampled: 11/20/2013		Media: Tedlar Bag	Air Vol.(L): 1			
1,1,1-Trichloroethane	<10	<10	<10	<10	<1.8	10	11/25/2013	RUF	EPA18
1,1-Dichloroethene	<10	<10	<10	<10	<2.5	10	11/25/2013	RUF	EPA18
2-Butanone	<10	<10	<10	<10	<3.4	10	11/25/2013	RUF	EPA18
4-Methyl-2-pentanone	<10	<10	<10	<10	<2.4	10	11/25/2013	RUF	EPA18
Acetone	<10	<10	<10	<10	<4.2	10	11/25/2013	RUF	EPA18
Benzene	<10	<10	<10	<10	<3.1	10	11/25/2013	RUF	EPA18
Carbon tetrachloride	<10	<10	<10	<10	<1.6	10	11/25/2013	RUF	EPA18
Chloroform	<10	<10	<10	<10	<2.0	10	11/25/2013	RUF	EPA18
cis-1,2-Dichloroethene	<10	<10	<10	<10	<2.5	10	11/25/2013	RUF	EPA18
Diethyl ether	<10	<10	<10	<10	<3.3	10	11/25/2013	RUF	EPA18
Ethylbenzene	<10	<10	<10	<10	<2.3	10	11/25/2013	RUF	EPA18
Freon 141B	<10	<10	<10	<10	<2.1	10	11/25/2013	RUF	EPA18
m,p-Xylene	<20	<20	<20	<20	<4.6	20	11/25/2013	RUF	EPA18
Methyl tert-butyl ether	<10	<10	<10	<10	<2.8	10	11/25/2013	RUF	EPA18
Methylene chloride	<10	<10	<10	<10	<2.9	10	11/25/2013	RUF	EPA18
n-Heptane	<10	<10	<10	<10	<2.4	10	11/25/2013	RUF	EPA18
n-Hexane	<10	<10	<10	<10	<2.8	10	11/25/2013	RUF	EPA18
Naphthalene	<10	<10	<10	<10	<1.9	10	11/25/2013	RUF	EPA18
o-Xylene	<10	<10	<10	<10	<2.3	10	11/25/2013	RUF	EPA18
Tetrachloroethene	<10	<10	<10	<10	<1.5	10	11/25/2013	RUF	EPA18
Toluene	<10	<10	<10	<10	<2.6	10	11/25/2013	RUF	EPA18
trans-1,2-Dichloroethene	<10	<10	<10	<10	<2.5	10	11/25/2013	RUF	EPA18
Trichloroethene	<10	<10	<10	<10	<1.9	10	11/25/2013	RUF	EPA18
TRPH (Based on Benzene)	120	121.822	<100	120	38	100	11/25/2013	RUF	EPA18
Vinyl chloride	<10	<10	<10	<10	<3.9	10	11/25/2013	RUF	EPA18

Client ID: INF	Lab ID: 1311E56-002A		Date Sampled: 11/20/2013		Media: Tedlar Bag	Air Vol.(L): 1			
1,1,1-Trichloroethane	<10	<10	<10	<10	<1.8	10	11/25/2013	RUF	EPA18
1,1-Dichloroethene	<10	<10	<10	<10	<2.5	10	11/25/2013	RUF	EPA18
2-Butanone	<10	<10	<10	<10	<3.4	10	11/25/2013	RUF	EPA18
4-Methyl-2-pentanone	<10	<10	<10	<10	<2.4	10	11/25/2013	RUF	EPA18
Acetone	<10	<10	<10	<10	<4.2	10	11/25/2013	RUF	EPA18
Benzene	<10	<10	<10	<10	<3.1	10	11/25/2013	RUF	EPA18
Carbon tetrachloride	<10	<10	<10	<10	<1.6	10	11/25/2013	RUF	EPA18
Chloroform	<10	<10	<10	<10	<2.0	10	11/25/2013	RUF	EPA18
cis-1,2-Dichloroethene	97	80.32	17.147	97	25	10	(a) 11/25/2013	RUF	EPA18
Diethyl ether	<10	<10	<10	<10	<3.3	10	11/25/2013	RUF	EPA18
Ethylbenzene	99	98.735	<10	99	23	10	11/25/2013	RUF	EPA18
Freon 141B	<10	<10	<10	<10	<2.1	10	11/25/2013	RUF	EPA18

Qualifiers:

< Less than the indicated limit of detection (LOD)

H Holding time for preparation or analysis

B Analyte detected in the associated Method Blank

(a) Analysis indicates possible breakthrough; back section result is greater than

10 % of the front section result.

Analytical Results

for

Arcadis

Date: 3-Dec-13

Workorder: 1311E56

Client Reference: Lafarge E.P.

Analyte	Concentration					Limit of Detection (ug)	Qual	Date Analyzed	Test Method
	Total (ug)	Front (ug)	Back (ug)	(mg/m3)	(ppm)				
m,p-Xylene	220	221.166	<20	220	51	20		11/25/2013 RUF	EPA18
Methyl tert-butyl ether	<10	<10	<10	<10	<2.8	10		11/25/2013 RUF	EPA18
Methylene chloride	16	0	15.897	16	4.6	10	(a)	11/25/2013 RUF	EPA18
n-Heptane	830	832.37	<10	830	200	10		11/25/2013 RUF	EPA18
n-Hexane	2200	2181.33	<100	2200	620	100		11/26/2013 RUF	EPA18
Naphthalene	<10	<10	<10	<10	<1.9	10		11/25/2013 RUF	EPA18
o-Xylene	48	47.995	<10	48	11	10		11/25/2013 RUF	EPA18
Tetrachloroethene	<10	<10	<10	<10	<1.5	10		11/25/2013 RUF	EPA18
Toluene	1300	1299.8	<10	1300	350	10		11/25/2013 RUF	EPA18
trans-1,2-Dichloroethene	<10	<10	<10	<10	<2.5	10		11/25/2013 RUF	EPA18
Trichloroethene	470	469.537	<10	470	87	10		11/25/2013 RUF	EPA18
TRPH (Based on Benzene)	12000	12265.8	<100	12000	3800	100		11/25/2013 RUF	EPA18
Vinyl chloride	<10	<10	<10	<10	<3.9	10		11/25/2013 RUF	EPA18

Client ID: SVE-ZONE 4 **Lab ID:** 1311E56-003A **Date Sampled:** 11/21/2013 **Media:** Tedlar Bag **Air Vol.(L):** 1

1,1,1-Trichloroethane	<10	<10	<10	<10	<1.8	10		11/25/2013 RUF	EPA18
1,1-Dichloroethene	<10	<10	<10	<10	<2.5	10		11/25/2013 RUF	EPA18
2-Butanone	<10	<10	<10	<10	<3.4	10		11/25/2013 RUF	EPA18
4-Methyl-2-pentanone	<10	<10	<10	<10	<2.4	10		11/25/2013 RUF	EPA18
Acetone	<10	<10	<10	<10	<4.2	10		11/25/2013 RUF	EPA18
Benzene	<10	<10	<10	<10	<3.1	10		11/25/2013 RUF	EPA18
Carbon tetrachloride	<10	<10	<10	<10	<1.6	10		11/25/2013 RUF	EPA18
Chloroform	<10	<10	<10	<10	<2.0	10		11/25/2013 RUF	EPA18
cis-1,2-Dichloroethene	12	7.774	4.474	12	3.1	10	(a)	11/25/2013 RUF	EPA18
Diethyl ether	<10	<10	<10	<10	<3.3	10		11/25/2013 RUF	EPA18
Ethylbenzene	77	77.096	<10	77	18	10		11/25/2013 RUF	EPA18
Freon 141B	<10	<10	<10	<10	<2.1	10		11/25/2013 RUF	EPA18
m,p-Xylene	90	90.249	<20	90	21	20		11/25/2013 RUF	EPA18
Methyl tert-butyl ether	<10	<10	<10	<10	<2.8	10		11/25/2013 RUF	EPA18
Methylene chloride	<10	<10	<10	<10	<2.9	10		11/25/2013 RUF	EPA18
n-Heptane	1000	1047.57	<10	1000	260	10		11/25/2013 RUF	EPA18
n-Hexane	3500	3452.73	28.216	3500	990	100		11/26/2013 RUF	EPA18
Naphthalene	<10	<10	<10	<10	<1.9	10		11/25/2013 RUF	EPA18
o-Xylene	41	40.644	<10	41	9.4	10		11/25/2013 RUF	EPA18
Tetrachloroethene	<10	<10	<10	<10	<1.5	10		11/25/2013 RUF	EPA18
Toluene	590	591.319	<10	590	160	10		11/25/2013 RUF	EPA18
trans-1,2-Dichloroethene	<10	<10	<10	<10	<2.5	10		11/25/2013 RUF	EPA18
Trichloroethene	33	33.329	<10	33	6.2	10		11/25/2013 RUF	EPA18
TRPH (Based on Benzene)	16000	15835.3	165.64	16000	5000	100		11/25/2013 RUF	EPA18
Vinyl chloride	<10	<10	<10	<10	<3.9	10		11/25/2013 RUF	EPA18

Qualifiers:

< Less than the indicated limit of detection (LOD)

H Holding time for preparation or analysis

B Analyte detected in the associated Method Blank

(a) Analysis indicates possible breakthrough; back section result is greater than

10 % of the front section result.

Analytical Results

for

Arcadis

Date: 3-Dec-13

Workorder: 1311E56

Client Reference: Lafarge E.P.

Analyte	Concentration					Limit of Detection (ug)	Qual	Date Analyzed /Analyst	Test Method
	Total (ug)	Front (ug)	Back (ug)	(mg/m3)	(ppm)				
Client ID: SVE-ZONE 3 Lab ID: 1311E56-004A Date Sampled: 11/21/2013 Media: Tedlar Bag Air Vol.(L): 1									
1,1,1-Trichloroethane	<10	<10	<10	<10	<1.8	10		11/25/2013 RUF	EPA18
1,1-Dichloroethene	<10	<10	<10	<10	<2.5	10		11/25/2013 RUF	EPA18
2-Butanone	<10	<10	<10	<10	<3.4	10		11/25/2013 RUF	EPA18
4-Methyl-2-pentanone	<10	<10	<10	<10	<2.4	10		11/25/2013 RUF	EPA18
Acetone	<10	<10	<10	<10	<4.2	10		11/25/2013 RUF	EPA18
Benzene	<10	<10	<10	<10	<3.1	10		11/25/2013 RUF	EPA18
Carbon tetrachloride	<10	<10	<10	<10	<1.6	10		11/25/2013 RUF	EPA18
Chloroform	<10	<10	<10	<10	<2.0	10		11/25/2013 RUF	EPA18
cis-1,2-Dichloroethene	73	34.253	38.384	73	18	10	(a)	11/25/2013 RUF	EPA18
Diethyl ether	<10	<10	<10	<10	<3.3	10		11/25/2013 RUF	EPA18
Ethylbenzene	240	240.185	<10	240	55	10		11/25/2013 RUF	EPA18
Freon 141B	<10	<10	<10	<10	<2.1	10		11/25/2013 RUF	EPA18
m,p-Xylene	630	629.969	<20	630	150	20		11/25/2013 RUF	EPA18
Methyl tert-butyl ether	<10	<10	<10	<10	<2.8	10		11/25/2013 RUF	EPA18
Methylene chloride	<10	<10	<10	<10	<2.9	10		11/25/2013 RUF	EPA18
n-Heptane	1200	1208.42	17.558	1200	300	10		11/25/2013 RUF	EPA18
n-Hexane	2900	2682.57	209.864	2900	820	100		11/26/2013 RUF	EPA18
Naphthalene	<10	<10	<10	<10	<1.9	10		11/25/2013 RUF	EPA18
o-Xylene	120	118.692	<10	120	27	10		11/25/2013 RUF	EPA18
Tetrachloroethene	<10	<10	<10	<10	<1.5	10		11/25/2013 RUF	EPA18
Toluene	3600	3593.25	19.787	3600	960	100		11/26/2013 RUF	EPA18
trans-1,2-Dichloroethene	<10	<10	<10	<10	<2.5	10		11/25/2013 RUF	EPA18
Trichloroethene	900	838.598	61.337	900	170	10		11/25/2013 RUF	EPA18
TRPH (Based on Benzene)	20000	18760.6	806.4	20000	6100	100		11/25/2013 RUF	EPA18
Vinyl chloride	<10	<10	<10	<10	<3.9	10		11/25/2013 RUF	EPA18
Client ID: SVE-EFF Lab ID: 1311E56-005A Date Sampled: 11/21/2013 Media: Tedlar Bag Air Vol.(L): 1									
1,1,1-Trichloroethane	<10	<10	<10	<10	<1.8	10		11/25/2013 RUF	EPA18
1,1-Dichloroethene	<10	<10	<10	<10	<2.5	10		11/25/2013 RUF	EPA18
2-Butanone	<10	<10	<10	<10	<3.4	10		11/25/2013 RUF	EPA18
4-Methyl-2-pentanone	<10	<10	<10	<10	<2.4	10		11/25/2013 RUF	EPA18
Acetone	<10	<10	<10	<10	<4.2	10		11/25/2013 RUF	EPA18
Benzene	<10	<10	<10	<10	<3.1	10		11/25/2013 RUF	EPA18
Carbon tetrachloride	<10	<10	<10	<10	<1.6	10		11/25/2013 RUF	EPA18
Chloroform	<10	<10	<10	<10	<2.0	10		11/25/2013 RUF	EPA18
cis-1,2-Dichloroethene	<10	<10	<10	<10	<2.5	10		11/25/2013 RUF	EPA18
Diethyl ether	<10	<10	<10	<10	<3.3	10		11/25/2013 RUF	EPA18
Ethylbenzene	<10	<10	<10	<10	<2.3	10		11/25/2013 RUF	EPA18
Freon 141B	<10	<10	<10	<10	<2.1	10		11/25/2013 RUF	EPA18

Qualifiers:

< Less than the indicated limit of detection (LOD)

H Holding time for preparation or analysis

B Analyte detected in the associated Method Blank

(a) Analysis indicates possible breakthrough; back section result is greater than

10 % of the front section result.

Analytical Results

for

Arcadis

Date: 3-Dec-13

Workorder: 1311E56

Client Reference: Lafarge E.P.

Analyte	Concentration					Limit of Detection (ug)	Qual	Date Analyzed	Test Method
	Total (ug)	Front (ug)	Back (ug)	(mg/m3)	(ppm)				
m,p-Xylene	<20	<20	<20	<20	<4.6	20	11/25/2013	RUF	EPA18
Methyl tert-butyl ether	<10	<10	<10	<10	<2.8	10	11/25/2013	RUF	EPA18
Methylene chloride	<10	<10	<10	<10	<2.9	10	11/25/2013	RUF	EPA18
n-Heptane	<10	<10	<10	<10	<2.4	10	11/25/2013	RUF	EPA18
n-Hexane	<10	<10	<10	<10	<2.8	10	11/25/2013	RUF	EPA18
Naphthalene	<10	<10	<10	<10	<1.9	10	11/25/2013	RUF	EPA18
o-Xylene	<10	<10	<10	<10	<2.3	10	11/25/2013	RUF	EPA18
Tetrachloroethene	<10	<10	<10	<10	<1.5	10	11/25/2013	RUF	EPA18
Toluene	<10	<10	<10	<10	<2.6	10	11/25/2013	RUF	EPA18
trans-1,2-Dichloroethene	<10	<10	<10	<10	<2.5	10	11/25/2013	RUF	EPA18
Trichloroethene	<10	<10	<10	<10	<1.9	10	11/25/2013	RUF	EPA18
TRPH (Based on Benzene)	<100	<100	<100	<100	<31	100	11/25/2013	RUF	EPA18
Vinyl chloride	<10	<10	<10	<10	<3.9	10	11/25/2013	RUF	EPA18

Client ID: SVE-ZONE 2 **Lab ID:** 1311E56-006A **Date Sampled:** 11/21/2013 **Media:** Tedlar Bag **Air Vol.(L):** 1

1,1,1-Trichloroethane	<10	<10	<10	<10	<1.8	10	11/25/2013	RUF	EPA18
1,1-Dichloroethene	<10	<10	<10	<10	<2.5	10	11/25/2013	RUF	EPA18
2-Butanone	<10	<10	<10	<10	<3.4	10	11/25/2013	RUF	EPA18
4-Methyl-2-pentanone	<10	<10	<10	<10	<2.4	10	11/25/2013	RUF	EPA18
Acetone	<10	<10	<10	<10	<4.2	10	11/25/2013	RUF	EPA18
Benzene	<10	<10	<10	<10	<3.1	10	11/25/2013	RUF	EPA18
Carbon tetrachloride	<10	<10	<10	<10	<1.6	10	11/25/2013	RUF	EPA18
Chloroform	<10	<10	<10	<10	<2.0	10	11/25/2013	RUF	EPA18
cis-1,2-Dichloroethene	350	327.589	22.864	350	88	10	11/25/2013	RUF	EPA18
Diethyl ether	<10	<10	<10	<10	<3.3	10	11/25/2013	RUF	EPA18
Ethylbenzene	59	59.23	<10	59	14	10	11/25/2013	RUF	EPA18
Freon 141B	<10	<10	<10	<10	<2.1	10	11/25/2013	RUF	EPA18
m,p-Xylene	200	196.09	<20	200	45	20	11/25/2013	RUF	EPA18
Methyl tert-butyl ether	<10	<10	<10	<10	<2.8	10	11/25/2013	RUF	EPA18
Methylene chloride	57	0	57.121	57	16	10 (a)	11/25/2013	RUF	EPA18
n-Heptane	610	607.437	<10	610	150	10	11/25/2013	RUF	EPA18
n-Hexane	560	560.19	<10	560	160	10	11/25/2013	RUF	EPA18
Naphthalene	<10	<10	<10	<10	<1.9	10	11/25/2013	RUF	EPA18
o-Xylene	33	32.803	<10	33	7.6	10	11/25/2013	RUF	EPA18
Tetrachloroethene	<10	<10	<10	<10	<1.5	10	11/25/2013	RUF	EPA18
Toluene	1400	1419.64	<10	1400	380	10	11/25/2013	RUF	EPA18
trans-1,2-Dichloroethene	<10	<10	<10	<10	<2.5	10	11/25/2013	RUF	EPA18
Trichloroethene	1200	1221.16	<10	1200	230	10	11/25/2013	RUF	EPA18
TRPH (Based on Benzene)	6600	6646.72	<100	6600	2100	100	11/25/2013	RUF	EPA18
Vinyl chloride	<10	<10	<10	<10	<3.9	10	11/25/2013	RUF	EPA18

Qualifiers:

< Less than the indicated limit of detection (LOD)

H Holding time for preparation or analysis

B Analyte detected in the associated Method Blank

(a) Analysis indicates possible breakthrough; back section result is greater than

10 % of the front section result.

Analytical Results

for

Arcadis

Date: 3-Dec-13

Workorder: 1311E56

Client Reference: Lafarge E.P.

Analyte	Concentration					Limit of Detection (ug)	Qual	Date Analyzed /Analyst	Test Method
	Total (ug)	Front (ug)	Back (ug)	(mg/m3)	(ppm)				
Client ID: SVE-ZONE 1									
Lab ID: 1311E56-007A		Date Sampled: 11/21/2013			Media: Tedlar Bag		Air Vol.(L): 1		
1,1,1-Trichloroethane	<10	<10	<10	<10	<1.8	10	11/26/2013	RUF	EPA18
1,1-Dichloroethene	<10	<10	<10	<10	<2.5	10	11/26/2013	RUF	EPA18
2-Butanone	<10	<10	<10	<10	<3.4	10	11/26/2013	RUF	EPA18
4-Methyl-2-pentanone	<10	<10	<10	<10	<2.4	10	11/26/2013	RUF	EPA18
Acetone	<10	<10	<10	<10	<4.2	10	11/26/2013	RUF	EPA18
Benzene	<10	<10	<10	<10	<3.1	10	11/26/2013	RUF	EPA18
Carbon tetrachloride	<10	<10	<10	<10	<1.6	10	11/26/2013	RUF	EPA18
Chloroform	<10	<10	<10	<10	<2.0	10	11/26/2013	RUF	EPA18
cis-1,2-Dichloroethene	35	35.113	<10	35	8.9	10	11/26/2013	RUF	EPA18
Diethyl ether	<10	<10	<10	<10	<3.3	10	11/26/2013	RUF	EPA18
Ethylbenzene	37	36.946	<10	37	8.5	10	11/26/2013	RUF	EPA18
Freon 141B	<10	<10	<10	<10	<2.1	10	11/26/2013	RUF	EPA18
m,p-Xylene	120	116.833	<20	120	27	20	11/26/2013	RUF	EPA18
Methyl tert-butyl ether	<10	<10	<10	<10	<2.8	10	11/26/2013	RUF	EPA18
Methylene chloride	<10	<10	<10	<10	<2.9	10	11/26/2013	RUF	EPA18
n-Heptane	100	103.208	<10	100	25	10	11/26/2013	RUF	EPA18
n-Hexane	21	20.698	<10	21	5.9	10	11/26/2013	RUF	EPA18
Naphthalene	<10	<10	<10	<10	<1.9	10	11/26/2013	RUF	EPA18
o-Xylene	27	26.536	<10	27	6.1	10	11/26/2013	RUF	EPA18
Tetrachloroethene	<10	<10	<10	<10	<1.5	10	11/26/2013	RUF	EPA18
Toluene	270	274.676	<10	270	73	10	11/26/2013	RUF	EPA18
trans-1,2-Dichloroethene	<10	<10	<10	<10	<2.5	10	11/26/2013	RUF	EPA18
Trichloroethene	61	60.91	<10	61	11	10	11/26/2013	RUF	EPA18
TRPH (Based on Benzene)	1600	1611.72	<100	1600	510	100	11/26/2013	RUF	EPA18
Vinyl chloride	<10	<10	<10	<10	<3.9	10	11/26/2013	RUF	EPA18

Qualifiers:

< Less than the indicated limit of detection (LOD)

H Holding time for preparation or analysis

B Analyte detected in the associated Method Blank

(a) Analysis indicates possible breakthrough; back section result is greater than

10 % of the front section result.

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Arcade

Work Order Number 1311E56

Checklist completed by [Signature] Date 11/21/13
Signature Date

Carrier name: FedEx UPS Courier Client US Mail Other

Shipping container/cooler in good condition? Yes No Not Present

Custody seals intact on shipping container/cooler? Yes No Not Present

Custody seals intact on sample bottles? Yes No Not Present

Container/Temp Blank temperature in compliance? (4°C±2)* Yes No
missile 12/13

Cooler #1 Amber Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler #5 _____ Cooler #6 _____

Chain of custody present? Yes No

Chain of custody signed when relinquished and received? Yes No

Chain of custody agrees with sample labels? Yes No

Samples in proper container/bottle? Yes No

Sample containers intact? Yes No

Sufficient sample volume for indicated test? Yes No

All samples received within holding time? Yes No

Was TAT marked on the COC? Yes No

Proceed with Standard TAT as per project history? Yes No Not Applicable

Water - VOA vials have zero headspace? No VOA vials submitted Yes No

Water - pH acceptable upon receipt? Yes No Not Applicable

Sample Condition: Good Adjusted? _____ Other(Explain) _____ Checked by _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes No

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

Client: Arcadis
 Project: Lafarge E.P.
 Lab Order: 1311E56

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1311E56-001A	EFF	11/20/2013 4:07:00PM	Air	Aromatic Volatiles in Air		11/22/2013	11/25/2013
1311E56-001A	EFF	11/20/2013 4:07:00PM	Air	Chlorinated Volatiles in Air		11/22/2013	11/25/2013
1311E56-001A	EFF	11/20/2013 4:07:00PM	Air	Volatile Hydrocarbons in Air		11/22/2013	11/25/2013
1311E56-002A	INF	11/20/2013 4:10:00PM	Air	Aromatic Volatiles in Air		11/22/2013	11/25/2013
1311E56-002A	INF	11/20/2013 4:10:00PM	Air	Chlorinated Volatiles in Air		11/22/2013	11/25/2013
1311E56-002A	INF	11/20/2013 4:10:00PM	Air	Volatile Hydrocarbons in Air		11/22/2013	11/25/2013
1311E56-002A	INF	11/20/2013 4:10:00PM	Air	Volatile Hydrocarbons in Air		11/22/2013	11/26/2013
1311E56-003A	SVE-ZONE 4	11/21/2013 1:05:00PM	Air	Aromatic Volatiles in Air		11/22/2013	11/25/2013
1311E56-003A	SVE-ZONE 4	11/21/2013 1:05:00PM	Air	Chlorinated Volatiles in Air		11/22/2013	11/25/2013
1311E56-003A	SVE-ZONE 4	11/21/2013 1:05:00PM	Air	Volatile Hydrocarbons in Air		11/22/2013	11/25/2013
1311E56-003A	SVE-ZONE 4	11/21/2013 1:05:00PM	Air	Volatile Hydrocarbons in Air		11/22/2013	11/26/2013
1311E56-004A	SVE-ZONE 3	11/21/2013 1:00:00PM	Air	Aromatic Volatiles in Air		11/22/2013	11/25/2013
1311E56-004A	SVE-ZONE 3	11/21/2013 1:00:00PM	Air	Aromatic Volatiles in Air		11/22/2013	11/26/2013
1311E56-004A	SVE-ZONE 3	11/21/2013 1:00:00PM	Air	Chlorinated Volatiles in Air		11/22/2013	11/25/2013
1311E56-004A	SVE-ZONE 3	11/21/2013 1:00:00PM	Air	Volatile Hydrocarbons in Air		11/22/2013	11/25/2013
1311E56-004A	SVE-ZONE 3	11/21/2013 1:00:00PM	Air	Volatile Hydrocarbons in Air		11/22/2013	11/26/2013
1311E56-005A	SVE-EFF	11/21/2013 12:45:00PM	Air	Aromatic Volatiles in Air		11/22/2013	11/25/2013
1311E56-005A	SVE-EFF	11/21/2013 12:45:00PM	Air	Chlorinated Volatiles in Air		11/22/2013	11/25/2013
1311E56-005A	SVE-EFF	11/21/2013 12:45:00PM	Air	Volatile Hydrocarbons in Air		11/22/2013	11/25/2013
1311E56-006A	SVE-ZONE 2	11/21/2013 12:55:00PM	Air	Aromatic Volatiles in Air		11/22/2013	11/25/2013
1311E56-006A	SVE-ZONE 2	11/21/2013 12:55:00PM	Air	Chlorinated Volatiles in Air		11/22/2013	11/25/2013
1311E56-006A	SVE-ZONE 2	11/21/2013 12:55:00PM	Air	Volatile Hydrocarbons in Air		11/22/2013	11/25/2013
1311E56-007A	SVE-ZONE 1	11/21/2013 12:50:00PM	Air	Aromatic Volatiles in Air		11/22/2013	11/26/2013
1311E56-007A	SVE-ZONE 1	11/21/2013 12:50:00PM	Air	Chlorinated Volatiles in Air		11/22/2013	11/26/2013
1311E56-007A	SVE-ZONE 1	11/21/2013 12:50:00PM	Air	Volatile Hydrocarbons in Air		11/22/2013	11/26/2013

Client: Arcadis
 Project Name: Lafarge E.P.
 Workorder: 1311E56

ANALYTICAL QC SUMMARY REPORT

BatchID: 184061

Sample ID: MB-184061	Client ID:	Units: ug, Total	Prep Date: 11/22/2013	Run No: 256636							
SampleType: MBLK	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 184061	Analysis Date: 11/25/2013	Seq No: 5392543							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane
 1,1-Dichloroethene
 Carbon tetrachloride
 Chloroform
 cis-1,2-Dichloroethene
 Freon 141B
 Methylene chloride
 Tetrachloroethene
 trans-1,2-Dichloroethene
 Trichloroethene
 Vinyl chloride

BRL
 BRL

10
 10
 10
 10
 10
 10
 10
 10
 10
 10
 10

Sample ID: MB-184061	Client ID:	Units: ug, Total	Prep Date: 11/22/2013	Run No: 256637							
SampleType: MBLK	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 184061	Analysis Date: 11/25/2013	Seq No: 5393187							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2-Butanone
 4-Methyl-2-pentanone
 Acetone
 Diethyl ether
 n-Heptane
 n-Hexane

BRL
 BRL
 BRL
 BRL
 BRL
 BRL

10
 10
 10
 10
 10
 10

Sample ID: MB-184061	Client ID:	Units: ug, Total	Prep Date: 11/22/2013	Run No: 256638							
SampleType: MBLK	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 184061	Analysis Date: 11/25/2013	Seq No: 5393575							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene

BRL
 10

Qualifiers:

- | | | | | | |
|---------|--|---|---|---|--|
| > | Greater than Result value | < | Less than Result value | B | Analyte detected in the associated method blank |
| BRL | Below reporting limit | E | Estimated (value above quantitation range) | H | Holding times for preparation or analysis exceeded |
| J | Estimated value detected below Reporting Limit | N | Analyte not NELAC certified | R | RPD outside limits due to matrix |
| Rpt Lim | Reporting Limit | S | Spike Recovery outside limits due to matrix | | |

Client: Arcadis
 Project Name: Lafarge E.P.
 Workorder: 1311E56

ANALYTICAL QC SUMMARY REPORT

BatchID: 184061

Sample ID: MB-184061	Client ID:	Units: ug, Total	Prep Date: 11/22/2013	Run No: 256638							
SampleType: MBLK	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 184061	Analysis Date: 11/25/2013	Seq No: 5393575							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethylbenzene
 m,p-Xylene
 Methyl tert-butyl ether
 Naphthalene
 o-Xylene
 Toluene
 TRPH (Based on Benzene)

BRL
 BRL
 BRL
 BRL
 BRL
 BRL
 BRL

10
 20
 10
 10
 10
 10
 100

Sample ID: LCS-184061	Client ID:	Units: ug, Total	Prep Date: 11/22/2013	Run No: 256636							
SampleType: LCS	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 184061	Analysis Date: 11/25/2013	Seq No: 5392545							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane
 Carbon tetrachloride
 Chloroform
 Methylene chloride
 Tetrachloroethene
 Trichloroethene

105.2
 108.3
 103.3
 105.7
 103.9
 107.7

10
 10
 10
 10
 10
 10

100.0
 100.0
 100.0
 100.0
 100.0
 100.0

105
 108
 103
 106
 104
 108

85
 85
 83.2
 85
 85
 85

120
 126
 120
 126
 118
 122

Sample ID: LCS-184061	Client ID:	Units: ug, Total	Prep Date: 11/22/2013	Run No: 256637							
SampleType: LCS	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 184061	Analysis Date: 11/25/2013	Seq No: 5393188							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2-Butanone
 4-Methyl-2-pentanone
 Acetone
 Diethyl ether
 n-Heptane

94.10
 99.56
 85.94
 100.6
 105.1

10
 10
 10
 10
 10

100.0
 100.0
 100.0
 100.0
 100.0

94.1
 99.6
 85.9
 101
 105

74.2
 81.5
 70.1
 79.9
 87

120
 120
 120
 120
 121

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	

Client: Arcadis
 Project Name: Lafarge E.P.
 Workorder: 1311E56

ANALYTICAL QC SUMMARY REPORT

BatchID: 184061

Sample ID: LCS-184061	Client ID:	Units: ug, Total	Prep Date: 11/22/2013	Run No: 256637							
SampleType: LCS	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 184061	Analysis Date: 11/25/2013	Seq No: 5393188							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

n-Hexane 107.5 10 100.0 108 87.1 123

Sample ID: LCS-184061	Client ID:	Units: ug, Total	Prep Date: 11/22/2013	Run No: 256638							
SampleType: LCS	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 184061	Analysis Date: 11/25/2013	Seq No: 5393576							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene 105.3 10 100.0 105 76 123
 Ethylbenzene 106.2 10 100.0 106 80.2 124
 m,p-Xylene 209.7 20 200.0 105 78 123
 Methyl tert-butyl ether 85.31 10 100.0 85.3 71 120
 Naphthalene 44.62 10 100.0 44.6 34.4 100
 o-Xylene 98.69 10 100.0 98.7 78 118
 Toluene 104.1 10 100.0 104 78.3 121

Sample ID: LCS-184061-2	Client ID:	Units: ug, Total	Prep Date: 11/22/2013	Run No: 256636							
SampleType: LCS	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 184061	Analysis Date: 11/25/2013	Seq No: 5392564							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene 101.5 10 100.0 102 83.6 119
 cis-1,2-Dichloroethene 106.4 10 100.0 106 84.2 123
 trans-1,2-Dichloroethene 102.0 10 100.0 102 85 120

Sample ID: LCS-184061-3	Client ID:	Units: ug, Total	Prep Date: 11/22/2013	Run No: 256636							
SampleType: LCS	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 184061	Analysis Date: 11/25/2013	Seq No: 5392549							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Vinyl chloride 27.56 10 25.00 110 60.4 121

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Arcadis
 Project Name: Lafarge E.P.
 Workorder: 1311E56

ANALYTICAL QC SUMMARY REPORT

BatchID: 184061

Sample ID: LCSD-184061	Client ID:	Units: ug, Total	Prep Date: 11/22/2013	Run No: 256636							
SampleType: LCSD	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 184061	Analysis Date: 11/25/2013	Seq No: 5392547							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	105.2	10	100.0		105	85	120	105.2	0.052	15	
Carbon tetrachloride	107.9	10	100.0		108	85	126	108.3	0.327	15	
Chloroform	103.5	10	100.0		104	83.2	120	103.3	0.256	15	
Methylene chloride	106.9	10	100.0		107	85	126	105.7	1.12	15	
Tetrachloroethene	104.2	10	100.0		104	85	118	103.9	0.251	15	
Trichloroethene	107.7	10	100.0		108	85	122	107.7	0.046	15	

Sample ID: LCSD-184061	Client ID:	Units: ug, Total	Prep Date: 11/22/2013	Run No: 256637							
SampleType: LCSD	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 184061	Analysis Date: 11/25/2013	Seq No: 5393189							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2-Butanone	94.49	10	100.0		94.5	74.2	120	94.10	0.411	15	
4-Methyl-2-pentanone	99.80	10	100.0		99.8	81.5	120	99.56	0.237	15	
Acetone	85.96	10	100.0		86.0	70.1	120	85.94	0.016	15	
Diethyl ether	100.9	10	100.0		101	79.9	120	100.6	0.347	15	
n-Heptane	105.3	10	100.0		105	87	121	105.1	0.176	15	
n-Hexane	107.9	10	100.0		108	87.1	123	107.5	0.358	15	

Sample ID: LCSD-184061	Client ID:	Units: ug, Total	Prep Date: 11/22/2013	Run No: 256638							
SampleType: LCSD	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 184061	Analysis Date: 11/25/2013	Seq No: 5393577							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene	105.5	10	100.0		105	76	123	105.3	0.147	15	
Ethylbenzene	106.5	10	100.0		107	80.2	124	106.2	0.270	15	
m,p-Xylene	210.2	20	200.0		105	78	123	209.7	0.264	15	
Methyl tert-butyl ether	86.02	10	100.0		86.0	71	120	85.31	0.836	15	
Naphthalene	45.31	10	100.0		45.3	34.4	100	44.62	1.54	15	
o-Xylene	99.13	10	100.0		99.1	78	118	98.69	0.446	15	

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Arcadis
 Project Name: Lafarge E.P.
 Workorder: 1311E56

ANALYTICAL QC SUMMARY REPORT

BatchID: 184061

Sample ID: LCSD-184061	Client ID:	Units: ug, Total	Prep Date: 11/22/2013	Run No: 256638							
SampleType: LCSD	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 184061	Analysis Date: 11/25/2013	Seq No: 5393577							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Toluene	104.3	10	100.0		104	78.3	121	104.1	0.237	15	
---------	-------	----	-------	--	-----	------	-----	-------	-------	----	--

Sample ID: LCSD-184061-2	Client ID:	Units: ug, Total	Prep Date: 11/22/2013	Run No: 256636							
SampleType: LCSD	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 184061	Analysis Date: 11/25/2013	Seq No: 5392565							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	100.2	10	100.0		100	83.6	119	101.5	1.29	15	
cis-1,2-Dichloroethene	107.0	10	100.0		107	84.2	123	106.4	0.527	15	
trans-1,2-Dichloroethene	102.0	10	100.0		102	85	120	102.0	0.002	15	

Sample ID: LCSD-184061-3	Client ID:	Units: ug, Total	Prep Date: 11/22/2013	Run No: 256636							
SampleType: LCSD	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 184061	Analysis Date: 11/25/2013	Seq No: 5392550							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Vinyl chloride	27.68	10	25.00		111	60.4	121	27.56	0.445	19.2	
----------------	-------	----	-------	--	-----	------	-----	-------	-------	------	--

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		



December 03, 2013

Peter Cornais
Arcadis
2081 Vista Parkway, Suite 200
West Palm Beach FL 33411

TEL: (850) 445-0829
FAX:

RE: Lafarge East Point

Dear Peter Cornais:

Order No: 1311H25

Analytical Environmental Services, Inc. received 4 samples on 11/22/2013 8:53:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/13-06/30/14.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/15.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Chantelle Kanhai
Project Manager



ANALYTICAL ENVIRONMENTAL SERVICES, INC
3785 Presidential Parkway, Atlanta GA 30340-3704

TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 131125

Date: 11-21-13 Page 1 of 1

#	SAMPLE ID	SAMPLED		Grab	Composite	Matrix (See codes)	ANALYSIS REQUESTED		REMARKS	No # of Containers
		DATE	TIME				PRESERVATION (See codes)	Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.		
1	Z1 SVE INF (102113)	10-21-13	1817	/		Air				1
2	Z2 SVE INF (102113)	10-21-13	1821	/		Air				1
3	Z3 SVE INF (102113)	10-21-13	1820	/		Air				1
4	Z4 SVE INF (102113)	10-21-13	1819	/		Air				1
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
RELINQUISHED BY		DATE/TIME	RECEIVED BY	DATE/TIME	PROJECT INFORMATION					
Ivan Jenkins		11-22-13 0853	Catoye R	11/22/13 8:53 a	PROJECT NAME: <u>Colony East Point</u> PROJECT #: <u>HT 212-5K1-0006</u> SITE ADDRESS: <u>2035 N. Martin St</u> <u>East Point GA</u> SEND REPORT TO: <u>peter.cornelis@arcadis-us.com</u> INVOICE TO: <u>(IF DIFFERENT FROM ABOVE)</u> QUOTE #: _____ PO#: _____					
SPECIAL INSTRUCTIONS/COMMENTS:		SHIPMENT METHOD OUT / / VIA: IN <u>CLIENT</u> <u>FedEx</u> <u>UPS</u> <u>MAIL</u> <u>COURIER</u> <u>GROUND</u> <u>OTHER</u>								
<p>SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES.</p> <p>SAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMPLETION UNLESS OTHER ARRANGEMENTS ARE MADE.</p> <p>MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water PRESERVATIVE CODES: H+1 = Hydrochloric acid + ice I = Ice only N = Nitric acid S+1 = Sulfuric acid + ice S/M+1 = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None</p>										
STATE PROGRAM (if any): _____		E-mail? Y / N; _____		Fax? Y / N _____		DATA PACKAGE: I II III IV				
Turnaround Time Request		<input checked="" type="radio"/> Standard 5 Business Days <input type="radio"/> 2 Business Day Rush <input type="radio"/> Next Business Day Rush <input type="radio"/> Same Day Rush (auth req.) <input type="radio"/> Other _____								
Total # of Containers		4								

White Copy - Original; Yellow Copy - Client

Client: Arcadis
Project: Lafarge East Point
Lab ID: 1311H25

Case Narrative

November is listed as the collection month on the sample container labels, not October as listed on the Chain of Custody. The dates listed on the containers were used to log in the samples.

Analytical Results

for

Arcadis

Date: 3-Dec-13

Workorder: 1311H25

Client Reference: Lafarge East Point

Analyte	Concentration					Limit of Detection (ug)	Qual	Date Analyzed /Analyst	Test Method
	Total (ug)	Front (ug)	Back (ug)	(mg/m3)	(ppm)				
Client ID: Z1 SVE INF (102113)	Lab ID: 1311H25-001A	Date Sampled: 11/21/2013	Media: Tedlar Bag	Air Vol.(L): 1					
1,1,1-Trichloroethane	<10	<10	<10	<10	<1.8	10	11/26/2013	RUF	EPA18
1,1-Dichloroethene	<10	<10	<10	<10	<2.5	10	11/26/2013	RUF	EPA18
2-Butanone	<10	<10	<10	<10	<3.4	10	11/26/2013	RUF	EPA18
4-Methyl-2-pentanone	<10	<10	<10	<10	<2.4	10	11/26/2013	RUF	EPA18
Acetone	<10	<10	<10	<10	<4.2	10	11/26/2013	RUF	EPA18
Benzene	<10	<10	<10	<10	<3.1	10	11/26/2013	RUF	EPA18
Carbon tetrachloride	<10	<10	<10	<10	<1.6	10	11/26/2013	RUF	EPA18
Chloroform	<10	<10	<10	<10	<2.0	10	11/26/2013	RUF	EPA18
cis-1,2-Dichloroethene	240	216.446	27.712	240	62	10	(a) 11/26/2013	RUF	EPA18
Diethyl ether	<10	<10	<10	<10	<3.3	10	11/26/2013	RUF	EPA18
Ethylbenzene	87	86.953	<10	87	20	10	11/26/2013	RUF	EPA18
Freon 141B	<10	<10	<10	<10	<2.1	10	11/26/2013	RUF	EPA18
m,p-Xylene	250	251.695	<20	250	58	20	11/26/2013	RUF	EPA18
Methyl tert-butyl ether	<10	<10	<10	<10	<2.8	10	11/26/2013	RUF	EPA18
Methylene chloride	<10	<10	<10	<10	<2.9	10	11/26/2013	RUF	EPA18
n-Heptane	950	950.899	<10	950	230	10	11/26/2013	RUF	EPA18
n-Hexane	1000	1026.27	<10	1000	290	10	11/26/2013	RUF	EPA18
Naphthalene	<10	<10	<10	<10	<1.9	10	11/26/2013	RUF	EPA18
o-Xylene	50	49.936	<10	50	12	10	11/26/2013	RUF	EPA18
Tetrachloroethene	<10	<10	<10	<10	<1.5	10	11/26/2013	RUF	EPA18
Toluene	1100	1143.05	<10	1100	300	10	11/26/2013	RUF	EPA18
trans-1,2-Dichloroethene	<10	<10	<10	<10	<2.5	10	11/26/2013	RUF	EPA18
Trichloroethene	410	405.954	<10	410	76	10	11/26/2013	RUF	EPA18
TRPH (Based on Benzene)	9700	9721.98	<100	9700	3000	100	11/26/2013	RUF	EPA18
Vinyl chloride	<10	<10	<10	<10	<3.9	10	11/26/2013	RUF	EPA18
Client ID: Z2 SVE INF (102113)	Lab ID: 1311H25-002A	Date Sampled: 11/21/2013	Media: Tedlar Bag	Air Vol.(L): 1					
1,1,1-Trichloroethane	<10	<10	<10	<10	<1.8	10	11/26/2013	RUF	EPA18
1,1-Dichloroethene	<10	<10	<10	<10	<2.5	10	11/26/2013	RUF	EPA18
2-Butanone	<10	<10	<10	<10	<3.4	10	11/26/2013	RUF	EPA18
4-Methyl-2-pentanone	<10	<10	<10	<10	<2.4	10	11/26/2013	RUF	EPA18
Acetone	<10	<10	<10	<10	<4.2	10	11/26/2013	RUF	EPA18
Benzene	<10	<10	<10	<10	<3.1	10	11/26/2013	RUF	EPA18
Carbon tetrachloride	<10	<10	<10	<10	<1.6	10	11/26/2013	RUF	EPA18
Chloroform	<10	<10	<10	<10	<2.0	10	11/26/2013	RUF	EPA18
cis-1,2-Dichloroethene	600	468.301	132.948	600	150	10	(a) 11/26/2013	RUF	EPA18
Diethyl ether	<10	<10	<10	<10	<3.3	10	11/26/2013	RUF	EPA18
Ethylbenzene	89	88.647	<10	89	20	10	11/26/2013	RUF	EPA18
Freon 141B	<10	<10	<10	<10	<2.1	10	11/26/2013	RUF	EPA18

Qualifiers:

< Less than the indicated limit of detection (LOD)

H Holding time for preparation or analysis

B Analyte detected in the associated Method Blank

(a) Analysis indicates possible breakthrough; back section result is greater than

10 % of the front section result.

Analytical Results

for

Arcadis

Date: 3-Dec-13

Workorder: 1311H25

Client Reference: Lafarge East Point

Analyte	Concentration					Limit of Detection (ug)	Qual	Date Analyzed	Test Method
	Total (ug)	Front (ug)	Back (ug)	(mg/m3)	(ppm)				
m,p-Xylene	270	270.408	<20	270	62	20		11/26/2013 RUF	EPA18
Methyl tert-butyl ether	<10	<10	<10	<10	<2.8	10		11/26/2013 RUF	EPA18
Methylene chloride	130	0	128.419	130	37	10	(a)	11/26/2013 RUF	EPA18
n-Heptane	1100	1135.35	<10	1100	280	10		11/26/2013 RUF	EPA18
n-Hexane	1400	1441.05	<10	1400	410	10		11/26/2013 RUF	EPA18
Naphthalene	<10	<10	<10	<10	<1.9	10		11/26/2013 RUF	EPA18
o-Xylene	51	50.696	<10	51	12	10		11/26/2013 RUF	EPA18
Tetrachloroethene	<10	<10	<10	<10	<1.5	10		11/26/2013 RUF	EPA18
Toluene	2100	1925.62	149.973	2100	550	100		11/26/2013 RUF	EPA18
trans-1,2-Dichloroethene	<10	<10	<10	<10	<2.5	10		11/26/2013 RUF	EPA18
Trichloroethene	1700	1715.52	<10	1700	320	10		11/26/2013 RUF	EPA18
TRPH (Based on Benzene)	12000	11975.4	<100	12000	3800	100		11/26/2013 RUF	EPA18
Vinyl chloride	<10	<10	<10	<10	<3.9	10		11/26/2013 RUF	EPA18

Client ID: Z3 SVE INF (102113) **Lab ID:** 1311H25-003A **Date Sampled:** 11/21/2013 **Media:** Tedlar Bag **Air Vol.(L):** 1

1,1,1-Trichloroethane	<10	<10	<10	<10	<1.8	10		11/26/2013 RUF	EPA18
1,1-Dichloroethene	<10	<10	<10	<10	<2.5	10		11/26/2013 RUF	EPA18
2-Butanone	<10	<10	<10	<10	<3.4	10		11/26/2013 RUF	EPA18
4-Methyl-2-pentanone	<10	<10	<10	<10	<2.4	10		11/26/2013 RUF	EPA18
Acetone	<10	<10	<10	<10	<4.2	10		11/26/2013 RUF	EPA18
Benzene	<10	<10	<10	<10	<3.1	10		11/26/2013 RUF	EPA18
Carbon tetrachloride	<10	<10	<10	<10	<1.6	10		11/26/2013 RUF	EPA18
Chloroform	<10	<10	<10	<10	<2.0	10		11/26/2013 RUF	EPA18
cis-1,2-Dichloroethene	81	42.896	38.05	81	20	10	(a)	11/26/2013 RUF	EPA18
Diethyl ether	<10	<10	<10	<10	<3.3	10		11/26/2013 RUF	EPA18
Ethylbenzene	310	307.091	<10	310	71	10		11/26/2013 RUF	EPA18
Freon 141B	<10	<10	<10	<10	<2.1	10		11/26/2013 RUF	EPA18
m,p-Xylene	870	867.866	<20	870	200	20		11/26/2013 RUF	EPA18
Methyl tert-butyl ether	<10	<10	<10	<10	<2.8	10		11/26/2013 RUF	EPA18
Methylene chloride	<10	<10	<10	<10	<2.9	10		11/26/2013 RUF	EPA18
n-Heptane	2100	1763.7	335.709	2100	510	10	(a)	11/26/2013 RUF	EPA18
n-Hexane	8900	4587.81	4359.02	8900	2500	100	(a)	11/26/2013 RUF	EPA18
o-Xylene	150	147.781	<10	150	34	10		11/26/2013 RUF	EPA18
Naphthalene	<10	<10	<10	<10	<1.9	10		11/26/2013 RUF	EPA18
Tetrachloroethene	<10	<10	<10	<10	<1.5	10		11/26/2013 RUF	EPA18
Toluene	4800	4601.88	149.973	4800	1300	100		11/26/2013 RUF	EPA18
trans-1,2-Dichloroethene	<10	<10	<10	<10	<2.5	10		11/26/2013 RUF	EPA18
Trichloroethene	1100	698.731	400.667	1100	210	10	(a)	11/26/2013 RUF	EPA18
TRPH (Based on Benzene)	36000	25252.8	10801.7	36000	11000	100	(a)	11/26/2013 RUF	EPA18
Vinyl chloride	<10	<10	<10	<10	<3.9	10		11/26/2013 RUF	EPA18

Qualifiers:

< Less than the indicated limit of detection (LOD)

H Holding time for preparation or analysis

B Analyte detected in the associated Method Blank

(a) Analysis indicates possible breakthrough; back section result is greater than

10 % of the front section result.

Analytical Results

for

Arcadis

Date: 3-Dec-13

Workorder: 1311H25

Client Reference: Lafarge East Point

Analyte	Concentration					Limit of Detection (ug)	Qual	Date Analyzed /Analyst	Test Method
	Total (ug)	Front (ug)	Back (ug)	(mg/m3)	(ppm)				
Client ID: Z4 SVE INF (102113) Lab ID: 1311H25-004A Date Sampled: 11/21/2013 Media: Tedlar Bag Air Vol.(L): 1									
1,1,1-Trichloroethane	<10	<10	<10	<10	<1.8	10		11/26/2013 RUF	EPA18
1,1-Dichloroethene	<10	<10	<10	<10	<2.5	10		11/26/2013 RUF	EPA18
2-Butanone	<10	<10	<10	<10	<3.4	10		11/26/2013 RUF	EPA18
4-Methyl-2-pentanone	<10	<10	<10	<10	<2.4	10		11/26/2013 RUF	EPA18
Acetone	<10	<10	<10	<10	<4.2	10		11/26/2013 RUF	EPA18
Benzene	<10	<10	<10	<10	<3.1	10		11/26/2013 RUF	EPA18
Carbon tetrachloride	<10	<10	<10	<10	<1.6	10		11/26/2013 RUF	EPA18
Chloroform	<10	<10	<10	<10	<2.0	10		11/26/2013 RUF	EPA18
cis-1,2-Dichloroethene	18	10.258	8.083	18	4.6	10	(a)	11/26/2013 RUF	EPA18
Diethyl ether	<10	<10	<10	<10	<3.3	10		11/26/2013 RUF	EPA18
Ethylbenzene	150	146.082	<10	150	34	10		11/26/2013 RUF	EPA18
Freon 141B	<10	<10	<10	<10	<2.1	10		11/26/2013 RUF	EPA18
m,p-Xylene	320	323.742	<20	320	75	20		11/26/2013 RUF	EPA18
Methyl tert-butyl ether	<10	<10	<10	<10	<2.8	10		11/26/2013 RUF	EPA18
Methylene chloride	<10	<10	<10	<10	<2.9	10		11/26/2013 RUF	EPA18
n-Heptane	3100	2609.46	505.379	3100	760	100	(a)	11/26/2013 RUF	EPA18
n-Hexane	9600	5260.99	4351.04	9600	2700	100	(a)	11/26/2013 RUF	EPA18
Naphthalene	<10	<10	<10	<10	<1.9	10		11/26/2013 RUF	EPA18
o-Xylene	77	77.24	<10	77	18	10		11/26/2013 RUF	EPA18
Tetrachloroethene	<10	<10	<10	<10	<1.5	10		11/26/2013 RUF	EPA18
Toluene	1200	1199.92	24.188	1200	330	10		11/26/2013 RUF	EPA18
trans-1,2-Dichloroethene	<10	<10	<10	<10	<2.5	10		11/26/2013 RUF	EPA18
Trichloroethene	91	60.948	29.805	91	17	10	(a)	11/26/2013 RUF	EPA18
TRPH (Based on Benzene)	36000	24674.8	11291.7	36000	11000	100	E(a)	11/26/2013 RUF	EPA18
Vinyl chloride	<10	<10	<10	<10	<3.9	10		11/26/2013 RUF	EPA18

Qualifiers:

< Less than the indicated limit of detection (LOD)

H Holding time for preparation or analysis

B Analyte detected in the associated Method Blank

(a) Analysis indicates possible breakthrough; back section result is greater than

10 % of the front section result.

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Arcadis

Work Order Number 1311H25

Checklist completed by [Signature] 11/22/13
Signature Date

Carrier name: FedEx UPS Courier Client US Mail Other

Shipping container/cooler in good condition? Yes No Not Present
Custody seals intact on shipping container/cooler? Yes No Not Present
Custody seals intact on sample bottles? Yes No Not Present
Container/Temp Blank temperature in compliance? ^{11/22} Yes No ($4^{\circ}\text{C} \pm 2$)*

Cooler #1 Ambient Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler #5 _____ Cooler #6 _____

Chain of custody present? Yes No
Chain of custody signed when relinquished and received? Yes No
Chain of custody agrees with sample labels? Yes No ^{11/22}
Samples in proper container/bottle? Yes No
Sample containers intact? Yes No
Sufficient sample volume for indicated test? Yes No
All samples received within holding time? Yes No
Was TAT marked on the COC? Yes No

Proceed with Standard TAT as per project history? Yes No Not Applicable
Water - VOA vials have zero headspace? No VOA vials submitted Yes No
Water - pH acceptable upon receipt? Yes No Not Applicable

Adjusted? _____ Checked by _____
Sample Condition: Good Other(Explain) _____
(For diffusive samples or AIHA lead) Is a known blank included? Yes No

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

Client: Arcadis
Project: Lafarge East Point
Lab Order: 1311H25

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1311H25-001A	Z1 SVE INF (102113)	11/21/2013 6:17:00PM	Air	Aromatic Volatiles in Air		11/22/2013	11/26/2013
1311H25-001A	Z1 SVE INF (102113)	11/21/2013 6:17:00PM	Air	Chlorinated Volatiles in Air		11/22/2013	11/26/2013
1311H25-001A	Z1 SVE INF (102113)	11/21/2013 6:17:00PM	Air	Volatile Hydrocarbons in Air		11/22/2013	11/26/2013
1311H25-002A	Z2 SVE INF (102113)	11/21/2013 6:21:00PM	Air	Aromatic Volatiles in Air		11/22/2013	11/26/2013
1311H25-002A	Z2 SVE INF (102113)	11/21/2013 6:21:00PM	Air	Chlorinated Volatiles in Air		11/22/2013	11/26/2013
1311H25-002A	Z2 SVE INF (102113)	11/21/2013 6:21:00PM	Air	Volatile Hydrocarbons in Air		11/22/2013	11/26/2013
1311H25-003A	Z3 SVE INF (102113)	11/21/2013 6:20:00PM	Air	Aromatic Volatiles in Air		11/22/2013	11/26/2013
1311H25-003A	Z3 SVE INF (102113)	11/21/2013 6:20:00PM	Air	Chlorinated Volatiles in Air		11/22/2013	11/26/2013
1311H25-003A	Z3 SVE INF (102113)	11/21/2013 6:20:00PM	Air	Volatile Hydrocarbons in Air		11/22/2013	11/26/2013
1311H25-004A	Z4 SVE INF (102113)	11/21/2013 6:19:00PM	Air	Aromatic Volatiles in Air		11/22/2013	11/26/2013
1311H25-004A	Z4 SVE INF (102113)	11/21/2013 6:19:00PM	Air	Chlorinated Volatiles in Air		11/22/2013	11/26/2013
1311H25-004A	Z4 SVE INF (102113)	11/21/2013 6:19:00PM	Air	Volatile Hydrocarbons in Air		11/22/2013	11/26/2013

Client: Arcadis
 Project Name: Lafarge East Point
 Workorder: 1311H25

ANALYTICAL QC SUMMARY REPORT

BatchID: 184061

Sample ID: MB-184061	Client ID:	Units: ug, Total	Prep Date: 11/22/2013	Run No: 256636							
SampleType: MBLK	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 184061	Analysis Date: 11/25/2013	Seq No: 5392543							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane
 1,1-Dichloroethene
 Carbon tetrachloride
 Chloroform
 cis-1,2-Dichloroethene
 Freon 141B
 Methylene chloride
 Tetrachloroethene
 trans-1,2-Dichloroethene
 Trichloroethene
 Vinyl chloride

BRL
 BRL

10
 10
 10
 10
 10
 10
 10
 10
 10
 10
 10

Sample ID: MB-184061	Client ID:	Units: ug, Total	Prep Date: 11/22/2013	Run No: 256637							
SampleType: MBLK	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 184061	Analysis Date: 11/25/2013	Seq No: 5393187							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2-Butanone
 4-Methyl-2-pentanone
 Acetone
 Diethyl ether
 n-Heptane
 n-Hexane

BRL
 BRL
 BRL
 BRL
 BRL
 BRL

10
 10
 10
 10
 10
 10

Sample ID: MB-184061	Client ID:	Units: ug, Total	Prep Date: 11/22/2013	Run No: 256638							
SampleType: MBLK	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 184061	Analysis Date: 11/25/2013	Seq No: 5393575							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene

BRL
 10

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
BRL	Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S Spike Recovery outside limits due to matrix	

Client: Arcadis
Project Name: Lafarge East Point
Workorder: 1311H25

ANALYTICAL QC SUMMARY REPORT

BatchID: 184061

Sample ID: MB-184061	Client ID:	Units: ug, Total	Prep Date: 11/22/2013	Run No: 256638							
SampleType: MBLK	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 184061	Analysis Date: 11/25/2013	Seq No: 5393575							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethylbenzene
m,p-Xylene
Methyl tert-butyl ether
Naphthalene
o-Xylene
Toluene
TRPH (Based on Benzene)

BRL
BRL
BRL
BRL
BRL
BRL
BRL

10
20
10
10
10
10
100

Sample ID: LCS-184061	Client ID:	Units: ug, Total	Prep Date: 11/22/2013	Run No: 256636							
SampleType: LCS	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 184061	Analysis Date: 11/25/2013	Seq No: 5392545							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane
Carbon tetrachloride
Chloroform
Methylene chloride
Tetrachloroethene
Trichloroethene

105.2
108.3
103.3
105.7
103.9
107.7

10
10
10
10
10
10

100.0
100.0
100.0
100.0
100.0
100.0

105
108
103
106
104
108

85
85
83.2
85
85
85

120
126
120
126
118
122

Sample ID: LCS-184061	Client ID:	Units: ug, Total	Prep Date: 11/22/2013	Run No: 256637							
SampleType: LCS	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 184061	Analysis Date: 11/25/2013	Seq No: 5393188							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2-Butanone
4-Methyl-2-pentanone
Acetone
Diethyl ether
n-Heptane

94.10
99.56
85.94
100.6
105.1

10
10
10
10
10

100.0
100.0
100.0
100.0
100.0

94.1
99.6
85.9
101
105

74.2
81.5
70.1
79.9
87

120
120
120
120
121

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	

Client: Arcadis
Project Name: Lafarge East Point
Workorder: 1311H25

ANALYTICAL QC SUMMARY REPORT

BatchID: 184061

Sample ID: LCS-184061	Client ID:	Units: ug, Total	Prep Date: 11/22/2013	Run No: 256637							
SampleType: LCS	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 184061	Analysis Date: 11/25/2013	Seq No: 5393188							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

n-Hexane 107.5 10 100.0 108 87.1 123

Sample ID: LCS-184061	Client ID:	Units: ug, Total	Prep Date: 11/22/2013	Run No: 256638							
SampleType: LCS	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 184061	Analysis Date: 11/25/2013	Seq No: 5393576							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene 105.3 10 100.0 105 76 123
 Ethylbenzene 106.2 10 100.0 106 80.2 124
 m,p-Xylene 209.7 20 200.0 105 78 123
 Methyl tert-butyl ether 85.31 10 100.0 85.3 71 120
 Naphthalene 44.62 10 100.0 44.6 34.4 100
 o-Xylene 98.69 10 100.0 98.7 78 118
 Toluene 104.1 10 100.0 104 78.3 121

Sample ID: LCS-184061-2	Client ID:	Units: ug, Total	Prep Date: 11/22/2013	Run No: 256636							
SampleType: LCS	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 184061	Analysis Date: 11/25/2013	Seq No: 5392564							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene 101.5 10 100.0 102 83.6 119
 cis-1,2-Dichloroethene 106.4 10 100.0 106 84.2 123
 trans-1,2-Dichloroethene 102.0 10 100.0 102 85 120

Sample ID: LCS-184061-3	Client ID:	Units: ug, Total	Prep Date: 11/22/2013	Run No: 256636							
SampleType: LCS	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 184061	Analysis Date: 11/25/2013	Seq No: 5392549							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Vinyl chloride 27.56 10 25.00 110 60.4 121

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Arcadis
Project Name: Lafarge East Point
Workorder: 1311H25

ANALYTICAL QC SUMMARY REPORT

BatchID: 184061

Sample ID: LCSD-184061	Client ID:	Units: ug, Total	Prep Date: 11/22/2013	Run No: 256636							
SampleType: LCSD	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 184061	Analysis Date: 11/25/2013	Seq No: 5392547							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	105.2	10	100.0		105	85	120	105.2	0.052	15	
Carbon tetrachloride	107.9	10	100.0		108	85	126	108.3	0.327	15	
Chloroform	103.5	10	100.0		104	83.2	120	103.3	0.256	15	
Methylene chloride	106.9	10	100.0		107	85	126	105.7	1.12	15	
Tetrachloroethene	104.2	10	100.0		104	85	118	103.9	0.251	15	
Trichloroethene	107.7	10	100.0		108	85	122	107.7	0.046	15	

Sample ID: LCSD-184061	Client ID:	Units: ug, Total	Prep Date: 11/22/2013	Run No: 256637							
SampleType: LCSD	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 184061	Analysis Date: 11/25/2013	Seq No: 5393189							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2-Butanone	94.49	10	100.0		94.5	74.2	120	94.10	0.411	15	
4-Methyl-2-pentanone	99.80	10	100.0		99.8	81.5	120	99.56	0.237	15	
Acetone	85.96	10	100.0		86.0	70.1	120	85.94	0.016	15	
Diethyl ether	100.9	10	100.0		101	79.9	120	100.6	0.347	15	
n-Heptane	105.3	10	100.0		105	87	121	105.1	0.176	15	
n-Hexane	107.9	10	100.0		108	87.1	123	107.5	0.358	15	

Sample ID: LCSD-184061	Client ID:	Units: ug, Total	Prep Date: 11/22/2013	Run No: 256638							
SampleType: LCSD	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 184061	Analysis Date: 11/25/2013	Seq No: 5393577							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene	105.5	10	100.0		105	76	123	105.3	0.147	15	
Ethylbenzene	106.5	10	100.0		107	80.2	124	106.2	0.270	15	
m,p-Xylene	210.2	20	200.0		105	78	123	209.7	0.264	15	
Methyl tert-butyl ether	86.02	10	100.0		86.0	71	120	85.31	0.836	15	
Naphthalene	45.31	10	100.0		45.3	34.4	100	44.62	1.54	15	
o-Xylene	99.13	10	100.0		99.1	78	118	98.69	0.446	15	

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Arcadis
Project Name: Lafarge East Point
Workorder: 1311H25

ANALYTICAL QC SUMMARY REPORT

BatchID: 184061

Sample ID: LCSD-184061	Client ID:	Units: ug, Total	Prep Date: 11/22/2013	Run No: 256638							
SampleType: LCSD	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 184061	Analysis Date: 11/25/2013	Seq No: 5393577							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Toluene	104.3	10	100.0		104	78.3	121	104.1	0.237	15	
---------	-------	----	-------	--	-----	------	-----	-------	-------	----	--

Sample ID: LCSD-184061-2	Client ID:	Units: ug, Total	Prep Date: 11/22/2013	Run No: 256636							
SampleType: LCSD	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 184061	Analysis Date: 11/25/2013	Seq No: 5392565							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	100.2	10	100.0		100	83.6	119	101.5	1.29	15	
cis-1,2-Dichloroethene	107.0	10	100.0		107	84.2	123	106.4	0.527	15	
trans-1,2-Dichloroethene	102.0	10	100.0		102	85	120	102.0	0.002	15	

Sample ID: LCSD-184061-3	Client ID:	Units: ug, Total	Prep Date: 11/22/2013	Run No: 256636							
SampleType: LCSD	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 184061	Analysis Date: 11/25/2013	Seq No: 5392550							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Vinyl chloride	27.68	10	25.00		111	60.4	121	27.56	0.445	19.2	
----------------	-------	----	-------	--	-----	------	-----	-------	-------	------	--

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
BRL	Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S Spike Recovery outside limits due to matrix	



December 19, 2013

Peter Cornais
Arcadis
2081 Vista Parkway, Suite 200
West Palm Beach FL 33411

TEL: (850) 445-0829
FAX:

RE: Lafarge Air Sparge Start-Up

Dear Peter Cornais:

Order No: 1312D94

Analytical Environmental Services, Inc. received 1 samples on 12/17/2013 9:03:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/13-06/30/14.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/15.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Chantelle Kanhai
Project Manager



ANALYTICAL ENVIRONMENTAL SERVICES, INC
 3785 Presidential Parkway, Atlanta GA 30340-3704
AES TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1312094

Date: 12-16-13 Page 1 of 1

#	SAMPLE ID	DATE	TIME	Grab	Composite	Matrix (See codes)	ANALYSIS REQUESTED				REMARKS	No # of Containers		
							ADDRESS	SIGNATURE	FAX	PHONE				
1	Influent GAC (21613)	12-16-13	1847	✓		Air	1000 Cobb Place Blvd Building 500A Kennesaw GA 30144	<i>Ivan Jenkins</i>	770 428 4004	770 428 9009	428	Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.	1	
2														
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														
13														
14														

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME	PROJECT INFORMATION	RECEIPT
<i>Ivan Jenkins</i>	12-17-13 0903	<i>Labays</i>	12/17/13 9:03am	PROJECT NAME: #2125th, Letargo Av Spange Street PROJECT #: HT212516.0006.00001 SITE ADDRESS: 2675 N. Martin St. East Point GA SEND REPORT TO: <i>Peter, cornelis@arcadis-us.com</i> INVOICE TO: (IF DIFFERENT FROM ABOVE) QUOTE #: PO#:	Total # of Containers 1
SPECIAL INSTRUCTIONS/COMMENTS: <i>Results by Thurs, evening the 19th</i> <i>Peter Cornelis 850 445 0829</i>					

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES.
 MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water
 PRESERVATIVE CODES: H+1 = Hydrochloric acid + ice I = Ice only N = Nitric acid S+1 = Sulfuric acid + ice S/M+1 = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None
 White Copy - Original, Yellow Copy - Client

Analytical Results

for

Arcadis

Date: 19-Dec-13

Workorder: 1312D94

Client Reference: Lafarge Air Sparge Start-Up

Analyte	Concentration					Limit of Detection (ug)	Qual	Date Analyzed /Analyst	Test Method
	Total (ug)	Front (ug)	Back (ug)	(mg/m3)	(ppm)				
Client ID: INFLUENT GAC (121613)	Lab ID: 1312D94-001A		Date Sampled: 12/16/2013		Media: Tedlar Bag	Air Vol.(L): 1			
1,1,1-Trichloroethane	<10	<10	<10	<10	<1.8	10		12/18/2013 RUF	EPA18
1,1-Dichloroethene	<10	<10	<10	<10	<2.5	10		12/18/2013 RUF	EPA18
2-Butanone	<10	<10	<10	<10	<3.4	10		12/18/2013 RUF	EPA18
4-Methyl-2-pentanone	<10	<10	<10	<10	<2.4	10		12/18/2013 RUF	EPA18
Acetone	<10	<10	<10	<10	<4.2	10		12/18/2013 RUF	EPA18
Benzene	<10	<10	<10	<10	<3.1	10		12/18/2013 RUF	EPA18
Carbon tetrachloride	<10	<10	<10	<10	<1.6	10		12/18/2013 RUF	EPA18
Chloroform	<10	<10	<10	<10	<2.0	10		12/18/2013 RUF	EPA18
cis-1,2-Dichloroethene	620	512.945	104.661	620	160	10	(a)	12/18/2013 RUF	EPA18
Diethyl ether	<10	<10	<10	<10	<3.3	10		12/18/2013 RUF	EPA18
Ethylbenzene	120	115.717	<10	120	27	10		12/18/2013 RUF	EPA18
Freon 141B	<10	<10	<10	<10	<2.1	10		12/18/2013 RUF	EPA18
m,p-Xylene	370	369.828	<20	370	85	20		12/18/2013 RUF	EPA18
Methyl tert-butyl ether	<10	<10	<10	<10	<2.8	10		12/18/2013 RUF	EPA18
Methylene chloride	84	0	83.713	84	24	10	(a)	12/18/2013 RUF	EPA18
n-Heptane	1500	1506.11	2.981	1500	370	10		12/18/2013 RUF	EPA18
n-Hexane	1900	1847.41	22.915	1900	530	10		12/18/2013 RUF	EPA18
Naphthalene	<10	<10	<10	<10	<1.9	10		12/18/2013 RUF	EPA18
o-Xylene	57	56.677	<10	57	13	10		12/18/2013 RUF	EPA18
Tetrachloroethene	<10	<10	<10	<10	<1.5	10		12/18/2013 RUF	EPA18
Toluene	3100	3081.39	1.899	3100	820	100		12/18/2013 RUF	EPA18
trans-1,2-Dichloroethene	<10	<10	<10	<10	<2.5	10		12/18/2013 RUF	EPA18
Trichloroethene	2300	2289.45	22.042	2300	430	100		12/18/2013 RUF	EPA18
TRPH (Based on Benzene)	17000	16568.4	191.211	17000	5300	100		12/18/2013 RUF	EPA18
Vinyl chloride	<10	<10	<10	<10	<3.9	10		12/18/2013 RUF	EPA18

Qualifiers:

< Less than the indicated limit of detection (LOD)

H Holding time for preparation or analysis

B Analyte detected in the associated Method Blank

(a) Analysis indicates possible breakthrough; back section result is greater than

10 % of the front section result.

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Arcadis Work Order Number 1312094

Checklist completed by Pls Signature Date 12/17/13

Carrier name: FedEx UPS Courier Client US Mail Other

Shipping container/cooler in good condition? Yes No Not Present
Custody seals intact on shipping container/cooler? Yes No Not Present
Custody seals intact on sample bottles? PI 12/17/13 Yes No Not Present
Container/Temp Blank temperature in compliance? (4°C±2)* Yes No

Cooler #1 web's list Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler #5 _____ Cooler #6 _____

Chain of custody present? Yes No
Chain of custody signed when relinquished and received? Yes No
Chain of custody agrees with sample labels? Yes No
Samples in proper container/bottle? Yes No
Sample containers intact? Yes No
Sufficient sample volume for indicated test? Yes No
All samples received within holding time? Yes No
Was TAT marked on the COC? Yes No
Proceed with Standard TAT as per project history? Yes No Not Applicable
Water - VOA vials have zero headspace? No VOA vials submitted Yes No
Water - pH acceptable upon receipt? Yes No Not Applicable

Adjusted? _____ Checked by _____
Sample Condition: Good Other(Explain) _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes No

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

Client: Arcadis
 Project: Lafarge Air Sparge Start-Up
 Lab Order: 1312D94

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1312D94-001A	INFLUENT GAC (121613)	12/16/2013 6:47:00PM	Air	Aromatic Volatiles in Air		12/18/2013	12/18/2013
1312D94-001A	INFLUENT GAC (121613)	12/16/2013 6:47:00PM	Air	Chlorinated Volatiles in Air		12/18/2013	12/18/2013
1312D94-001A	INFLUENT GAC (121613)	12/16/2013 6:47:00PM	Air	Volatile Hydrocarbons in Air		12/18/2013	12/18/2013

Client: Arcadis
Project Name: Lafarge Air Sparge Start-Up
Workorder: 1312D94

ANALYTICAL QC SUMMARY REPORT

BatchID: 185000

Sample ID: MB-185000	Client ID:	Units: ug, Total	Prep Date: 12/18/2013	Run No: 258083							
SampleType: MBLK	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 185000	Analysis Date: 12/18/2013	Seq No: 5423856							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	BRL	10									
1,1-Dichloroethene	BRL	10									
Carbon tetrachloride	BRL	10									
Chloroform	BRL	10									
cis-1,2-Dichloroethene	BRL	10									
Freon 141B	BRL	10									
Methylene chloride	BRL	10									
Tetrachloroethene	BRL	10									
trans-1,2-Dichloroethene	BRL	10									
Trichloroethene	BRL	10									
Vinyl chloride	BRL	10									

Sample ID: MB-185000	Client ID:	Units: ug, Total	Prep Date: 12/18/2013	Run No: 258084							
SampleType: MBLK	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 185000	Analysis Date: 12/18/2013	Seq No: 5423928							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2-Butanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	10									
Diethyl ether	BRL	10									
n-Heptane	BRL	10									
n-Hexane	BRL	10									

Sample ID: MB-185000	Client ID:	Units: ug, Total	Prep Date: 12/18/2013	Run No: 258085							
SampleType: MBLK	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 185000	Analysis Date: 12/18/2013	Seq No: 5423969							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene	BRL	10									
---------	-----	----	--	--	--	--	--	--	--	--	--

Qualifiers:

> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	

Client: Arcadis
Project Name: Lafarge Air Sparge Start-Up
Workorder: 1312D94

ANALYTICAL QC SUMMARY REPORT

BatchID: 185000

Sample ID: MB-185000	Client ID:	Units: ug, Total	Prep Date: 12/18/2013	Run No: 258085							
SampleType: MBLK	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 185000	Analysis Date: 12/18/2013	Seq No: 5423969							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethylbenzene
m,p-Xylene
Methyl tert-butyl ether
Naphthalene
o-Xylene
Toluene
TRPH (Based on Benzene)

BRL
BRL
BRL
BRL
BRL
BRL
BRL

10
20
10
10
10
10
100

Sample ID: LCS-185000	Client ID:	Units: ug, Total	Prep Date: 12/18/2013	Run No: 258083							
SampleType: LCS	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 185000	Analysis Date: 12/18/2013	Seq No: 5423858							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane
Carbon tetrachloride
Chloroform
Methylene chloride
Tetrachloroethene
Trichloroethene

110.6
112.6
107.8
108.2
110.6
113.4

10
10
10
10
10
10

100.0
100.0
100.0
100.0
100.0
100.0

111
113
108
108
111
113

85
85
83.2
85
85
85

120
126
120
126
118
122

Sample ID: LCS-185000	Client ID:	Units: ug, Total	Prep Date: 12/18/2013	Run No: 258084							
SampleType: LCS	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 185000	Analysis Date: 12/18/2013	Seq No: 5423930							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2-Butanone
4-Methyl-2-pentanone
Acetone
Diethyl ether
n-Heptane

97.76
104.8
85.68
102.4
111.0

10
10
10
10
10

100.0
100.0
100.0
100.0
100.0

97.8
105
85.7
102
111

74.2
81.5
70.1
79.9
87

120
120
120
120
121

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Arcadis
Project Name: Lafarge Air Sparge Start-Up
Workorder: 1312D94

ANALYTICAL QC SUMMARY REPORT

BatchID: 185000

Sample ID: LCS-185000	Client ID:	Units: ug, Total	Prep Date: 12/18/2013	Run No: 258084							
SampleType: LCS	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 185000	Analysis Date: 12/18/2013	Seq No: 5423930							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

n-Hexane 112.4 10 100.0 112 87.1 123

Sample ID: LCS-185000	Client ID:	Units: ug, Total	Prep Date: 12/18/2013	Run No: 258085							
SampleType: LCS	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 185000	Analysis Date: 12/18/2013	Seq No: 5423970							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene 111.0 10 100.0 111 76 123
 Ethylbenzene 112.8 10 100.0 113 80.2 124
 m,p-Xylene 223.2 20 200.0 112 78 123
 Methyl tert-butyl ether 88.81 10 100.0 88.8 71 120
 Naphthalene 46.40 10 100.0 46.4 34.4 100
 o-Xylene 103.7 10 100.0 104 78 118
 Toluene 110.5 10 100.0 110 78.3 121

Sample ID: LCS-185000-2	Client ID:	Units: ug, Total	Prep Date: 12/18/2013	Run No: 258083							
SampleType: LCS	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 185000	Analysis Date: 12/18/2013	Seq No: 5423866							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene 101.9 10 100.0 102 83.6 119
 cis-1,2-Dichloroethene 107.4 10 100.0 107 84.2 123
 trans-1,2-Dichloroethene 103.6 10 100.0 104 85 120

Sample ID: LCS-185000-3	Client ID:	Units: ug, Total	Prep Date: 12/18/2013	Run No: 258083							
SampleType: LCS	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 185000	Analysis Date: 12/18/2013	Seq No: 5423862							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Vinyl chloride 27.03 10 25.00 108 60.4 121

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Arcadis
Project Name: Lafarge Air Sparge Start-Up
Workorder: 1312D94

ANALYTICAL QC SUMMARY REPORT

BatchID: 185000

Sample ID: LCSD-185000	Client ID:	Units: ug, Total	Prep Date: 12/18/2013	Run No: 258083							
SampleType: LCSD	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 185000	Analysis Date: 12/18/2013	Seq No: 5423860							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	110.3	10	100.0		110	85	120	110.6	0.272	15	
Carbon tetrachloride	112.3	10	100.0		112	85	126	112.6	0.333	15	
Chloroform	107.0	10	100.0		107	83.2	120	107.8	0.727	15	
Methylene chloride	108.0	10	100.0		108	85	126	108.2	0.204	15	
Tetrachloroethene	111.2	10	100.0		111	85	118	110.6	0.559	15	
Trichloroethene	113.5	10	100.0		113	85	122	113.4	0.117	15	

Sample ID: LCSD-185000	Client ID:	Units: ug, Total	Prep Date: 12/18/2013	Run No: 258084							
SampleType: LCSD	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 185000	Analysis Date: 12/18/2013	Seq No: 5423932							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2-Butanone	98.26	10	100.0		98.3	74.2	120	97.76	0.507	15	
4-Methyl-2-pentanone	105.1	10	100.0		105	81.5	120	104.8	0.254	15	
Acetone	86.37	10	100.0		86.4	70.1	120	85.68	0.813	15	
Diethyl ether	102.4	10	100.0		102	79.9	120	102.4	0.045	15	
n-Heptane	110.8	10	100.0		111	87	121	111.0	0.125	15	
n-Hexane	112.5	10	100.0		112	87.1	123	112.4	0.029	15	

Sample ID: LCSD-185000	Client ID:	Units: ug, Total	Prep Date: 12/18/2013	Run No: 258085							
SampleType: LCSD	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 185000	Analysis Date: 12/18/2013	Seq No: 5423972							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene	111.0	10	100.0		111	76	123	111.0	0.041	15	
Ethylbenzene	112.7	10	100.0		113	80.2	124	112.8	0.092	15	
m,p-Xylene	223.3	20	200.0		112	78	123	223.2	0.048	15	
Methyl tert-butyl ether	88.85	10	100.0		88.9	71	120	88.81	0.050	15	
Naphthalene	47.85	10	100.0		47.8	34.4	100	46.40	3.08	15	
o-Xylene	103.8	10	100.0		104	78	118	103.7	0.078	15	

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Arcadis
Project Name: Lafarge Air Sparge Start-Up
Workorder: 1312D94

ANALYTICAL QC SUMMARY REPORT

BatchID: 185000

Sample ID: LCSD-185000	Client ID:	Units: ug, Total	Prep Date: 12/18/2013	Run No: 258085							
SampleType: LCSD	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 185000	Analysis Date: 12/18/2013	Seq No: 5423972							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Toluene	110.7	10	100.0		111	78.3	121	110.5	0.234	15	
---------	-------	----	-------	--	-----	------	-----	-------	-------	----	--

Sample ID: LCSD-185000-2	Client ID:	Units: ug, Total	Prep Date: 12/18/2013	Run No: 258083							
SampleType: LCSD	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 185000	Analysis Date: 12/18/2013	Seq No: 5423869							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	98.53	10	100.0		98.5	83.6	119	101.9	3.34	15	
cis-1,2-Dichloroethene	105.8	10	100.0		106	84.2	123	107.4	1.48	15	
trans-1,2-Dichloroethene	101.0	10	100.0		101	85	120	103.6	2.58	15	

Sample ID: LCSD-185000-3	Client ID:	Units: ug, Total	Prep Date: 12/18/2013	Run No: 258083							
SampleType: LCSD	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 185000	Analysis Date: 12/18/2013	Seq No: 5423864							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Vinyl chloride	26.86	10	25.00		107	60.4	121	27.03	0.624	19.2	
----------------	-------	----	-------	--	-----	------	-----	-------	-------	------	--

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		



December 31, 2013

Peter Cornais
Arcadis
2081 Vista Parkway, Suite 200
West Palm Beach FL 33411

TEL: (850) 445-0829
FAX:

RE: Lafarge East Point Air Sparge

Dear Peter Cornais:

Order No: 1312I63

Analytical Environmental Services, Inc. received 2 samples on 12/20/2013 6:50:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/13-06/30/14.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/15.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Chantelle Kanhai
Project Manager

1312163 CW 12/14/13
Work Order: 1312163

CHAIN OF CUSTODY

ANALYTICAL ENVIRONMENTAL SERVICES, INC

3785 Presidential Parkway, Atlanta GA 30340-3704
TEL: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

Date: 12-20-13 Page 1 of 1

#	SAMPLE ID	SAMPLED			Matrix (See codes)	REMARKS	ANALYSIS REQUESTED	PRESERVATION (See codes)	No # of Containers
		DATE	TIME	Grab					
1	SVE-GAC-INF-122013-1740	12-20-13	1740	-	Air	2 day TAT		1	
2	SVE-GAC-MED-122013-1745	12-20-13	1745	-	Air	Standard TAT		1	
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									

COMPANY: Arcadis
ADDRESS: 1800 Cobb Place Blvd Building 500A Kennesaw, GA 30144
PHONE: 770 928 9009
FAX: 770 457 4004
SIGNED BY: Ivan Jordan's

Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.

RELINQUISHED BY: Ivan Jordan's 12-20-13 1858
RECEIVED BY: [Signature] 12/20/13 6:50
DATE/TIME

PROJECT NAME: LaTarge East Point Air Sparge
PROJECT #: HT212516.0006
SITE ADDRESS: 2675 N. MARTIN ST East Point, GA 30424
SEND REPORT TO: petar.cornalis@arcadis-us.com
INVOICE TO: (IF DIFFERENT FROM ABOVE)
QUOTE #:

SHIPMENT METHOD: CLIENT VIA MAIL COURIER
SPECIAL INSTRUCTIONS/COMMENTS:
STATE PROGRAM (if any):
E-mail? Y/N; Fax? Y/N
DATA PACKAGE: I II III IV
Turnaround Time Request:
Standard 5 Business Days
2 Business Day Rush
Next Business Day Rush
Same Day Rush (auth req.)
Other

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES.
SAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMPLETION UNLESS OTHER ARRANGEMENTS ARE MADE.
MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water
PRESERVATIVE CODES: H+1 = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

Analytical Results

for

Arcadis

Date: 31-Dec-13

Workorder: 1312163

Client Reference: Lafarge East Point Air Sparge

Analyte	Concentration					Limit of Detection (ug)	Qual	Date Analyzed /Analyst	Test Method
	Total (ug)	Front (ug)	Back (ug)	(mg/m3)	(ppm)				
Client ID: SVE-GAC-INF-122013-1740	Lab ID: 1312163-001A	Date Sampled: 12/20/2013	Media: Tedlar Bag	Air Vol.(L): 1					
1,1,1-Trichloroethane	<10	<10	<10	<10	<1.8	10	12/23/2013	RUF	EPA18
1,1-Dichloroethene	<10	<10	<10	<10	<2.5	10	12/23/2013	RUF	EPA18
2-Butanone	<10	<10	<10	<10	<3.4	10	12/23/2013	RUF	EPA18
4-Methyl-2-pentanone	<10	<10	<10	<10	<2.4	10	12/23/2013	RUF	EPA18
Acetone	<10	<10	<10	<10	<4.2	10	12/23/2013	RUF	EPA18
Benzene	<10	<10	<10	<10	<3.1	10	12/23/2013	RUF	EPA18
Carbon tetrachloride	<10	<10	<10	<10	<1.6	10	12/23/2013	RUF	EPA18
Chloroform	<10	<10	<10	<10	<2.0	10	12/23/2013	RUF	EPA18
cis-1,2-Dichloroethene	170	161.38	12.179	170	44	10	12/23/2013	RUF	EPA18
Diethyl ether	<10	<10	<10	<10	<3.3	10	12/23/2013	RUF	EPA18
Ethylbenzene	84	83.73	<10	84	19	10	12/23/2013	RUF	EPA18
Freon 141B	<10	<10	<10	<10	<2.1	10	12/23/2013	RUF	EPA18
m,p-Xylene	270	268.219	<20	270	62	20	12/23/2013	RUF	EPA18
Methyl tert-butyl ether	<10	<10	<10	<10	<2.8	10	12/23/2013	RUF	EPA18
Methylene chloride	17	0	16.579	17	4.8	10	(a) 12/23/2013	RUF	EPA18
n-Heptane	860	864.226	<10	860	210	10	12/23/2013	RUF	EPA18
n-Hexane	1300	1261.82	<10	1300	360	10	12/23/2013	RUF	EPA18
Naphthalene	<10	<10	<10	<10	<1.9	10	12/23/2013	RUF	EPA18
o-Xylene	42	42.057	<10	42	9.7	10	12/23/2013	RUF	EPA18
Tetrachloroethene	<10	<10	<10	<10	<1.5	10	12/23/2013	RUF	EPA18
Toluene	1900	1856.78	<10	1900	490	10	12/23/2013	RUF	EPA18
trans-1,2-Dichloroethene	<10	<10	<10	<10	<2.5	10	12/23/2013	RUF	EPA18
Trichloroethene	1200	1211.77	<10	1200	230	10	12/23/2013	RUF	EPA18
TRPH (Based on Benzene)	10000	10144.7	<100	10000	3200	100	E 12/23/2013	RUF	EPA18
Vinyl chloride	<10	<10	<10	<10	<3.9	10	12/23/2013	RUF	EPA18

Client ID: SVE-GAC-MID-122013-1745	Lab ID: 1312163-002A	Date Sampled: 12/20/2013	Media: Tedlar Bag	Air Vol.(L): 1					
1,1,1-Trichloroethane	<10	<10	<10	<10	<1.8	10	12/23/2013	RUF	EPA18
1,1-Dichloroethene	<10	<10	<10	<10	<2.5	10	12/23/2013	RUF	EPA18
2-Butanone	<10	<10	<10	<10	<3.4	10	12/23/2013	RUF	EPA18
4-Methyl-2-pentanone	<10	<10	<10	<10	<2.4	10	12/23/2013	RUF	EPA18
Acetone	<10	<10	<10	<10	<4.2	10	12/23/2013	RUF	EPA18
Benzene	<10	<10	<10	<10	<3.1	10	12/23/2013	RUF	EPA18
Carbon tetrachloride	<10	<10	<10	<10	<1.6	10	12/23/2013	RUF	EPA18
Chloroform	<10	<10	<10	<10	<2.0	10	12/23/2013	RUF	EPA18
cis-1,2-Dichloroethene	<10	<10	<10	<10	<2.5	10	12/23/2013	RUF	EPA18
Diethyl ether	<10	<10	<10	<10	<3.3	10	12/23/2013	RUF	EPA18
Ethylbenzene	<10	<10	<10	<10	<2.3	10	12/23/2013	RUF	EPA18
Freon 141B	<10	<10	<10	<10	<2.1	10	12/23/2013	RUF	EPA18

Qualifiers:

< Less than the indicated limit of detection (LOD)

H Holding time for preparation or analysis

B Analyte detected in the associated Method Blank

(a) Analysis indicates possible breakthrough; back section result is greater than

10 % of the front section result.

Analytical Results

for

Arcadis

Date: 31-Dec-13

Workorder: 1312163

Client Reference: Lafarge East Point Air Sparge

Analyte	Concentration					Limit of Detection (ug)	Qual	Date Analyzed	/Analyst	Test Method
	Total (ug)	Front (ug)	Back (ug)	(mg/m3)	(ppm)					
m,p-Xylene	<20	<20	<20	<20	<4.6	20		12/23/2013	RUF	EPA18
Methyl tert-butyl ether	<10	<10	<10	<10	<2.8	10		12/23/2013	RUF	EPA18
Methylene chloride	<10	<10	<10	<10	<2.9	10		12/23/2013	RUF	EPA18
n-Heptane	<10	<10	<10	<10	<2.4	10		12/23/2013	RUF	EPA18
n-Hexane	<10	<10	<10	<10	<2.8	10		12/23/2013	RUF	EPA18
Naphthalene	<10	<10	<10	<10	<1.9	10		12/23/2013	RUF	EPA18
o-Xylene	<10	<10	<10	<10	<2.3	10		12/23/2013	RUF	EPA18
Tetrachloroethene	<10	<10	<10	<10	<1.5	10		12/23/2013	RUF	EPA18
Toluene	<10	<10	<10	<10	<2.6	10		12/23/2013	RUF	EPA18
trans-1,2-Dichloroethene	<10	<10	<10	<10	<2.5	10		12/23/2013	RUF	EPA18
Trichloroethene	<10	<10	<10	<10	<1.9	10		12/23/2013	RUF	EPA18
TRPH (Based on Benzene)	<100	<100	<100	<100	<31	100		12/23/2013	RUF	EPA18
Vinyl chloride	<10	<10	<10	<10	<3.9	10		12/23/2013	RUF	EPA18

Qualifiers:

< Less than the indicated limit of detection (LOD)

H Holding time for preparation or analysis

B Analyte detected in the associated Method Blank

(a) Analysis indicates possible breakthrough; back section result is greater than

10 % of the front section result.

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Arcadis

Work Order Number 13/2163

Checklist completed by [Signature] Date 12/20/13

Carrier name: FedEx UPS Courier Client US Mail Other

Shipping container/cooler in good condition? Yes No Not Present
Custody seals intact on shipping container/cooler? Yes No Not Present
Custody seals intact on sample bottles? Yes No Not Present
Container/Temp Blank temperature in compliance? (4°C±2)* Yes No

Cooler #1 Full Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler #5 _____ Cooler #6 _____

Chain of custody present? Yes No
Chain of custody signed when relinquished and received? Yes No
Chain of custody agrees with sample labels? Yes No
Samples in proper container/bottle? Yes No
Sample containers intact? Yes No
Sufficient sample volume for indicated test? Yes No
All samples received within holding time? Yes No
Was TAT marked on the COC? Yes No
Proceed with Standard TAT as per project history? Yes No Not Applicable
Water - VOA vials have zero headspace? No VOA vials submitted Yes No
Water - pH acceptable upon receipt? Yes No Not Applicable

Adjusted? _____ Checked by _____
Sample Condition: Good Other(Explain) _____
(For diffusive samples or AIHA lead) Is a known blank included? Yes No

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

Client: Arcadis
Project: Lafarge East Point Air Sparge
Lab Order: 1312I63

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1312I63-001A	SVE-GAC-INF-122013-1740	12/20/2013 5:40:00PM	Air	Aromatic Volatiles in Air		12/23/2013	12/23/2013
1312I63-001A	SVE-GAC-INF-122013-1740	12/20/2013 5:40:00PM	Air	Chlorinated Volatiles in Air		12/23/2013	12/23/2013
1312I63-001A	SVE-GAC-INF-122013-1740	12/20/2013 5:40:00PM	Air	Volatile Hydrocarbons in Air		12/23/2013	12/23/2013
1312I63-002A	SVE-GAC-MID-122013-1745	12/20/2013 5:45:00PM	Air	Aromatic Volatiles in Air		12/23/2013	12/23/2013
1312I63-002A	SVE-GAC-MID-122013-1745	12/20/2013 5:45:00PM	Air	Chlorinated Volatiles in Air		12/23/2013	12/23/2013
1312I63-002A	SVE-GAC-MID-122013-1745	12/20/2013 5:45:00PM	Air	Volatile Hydrocarbons in Air		12/23/2013	12/23/2013

Client: Arcadis
 Project Name: Lafarge East Point Air Sparge
 Workorder: 1312I63

ANALYTICAL QC SUMMARY REPORT

BatchID: 185167

Sample ID: MB-185167	Client ID:	Units: ug, Total	Prep Date: 12/23/2013	Run No: 258442							
SampleType: MBLK	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 185167	Analysis Date: 12/23/2013	Seq No: 5430453							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane
 1,1-Dichloroethene
 Carbon tetrachloride
 Chloroform
 cis-1,2-Dichloroethene
 Freon 141B
 Methylene chloride
 Tetrachloroethene
 trans-1,2-Dichloroethene
 Trichloroethene
 Vinyl chloride

BRL
 BRL

10
 10
 10
 10
 10
 10
 10
 10
 10
 10
 10

Sample ID: MB-185167	Client ID:	Units: ug, Total	Prep Date: 12/23/2013	Run No: 258443							
SampleType: MBLK	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 185167	Analysis Date: 12/23/2013	Seq No: 5430555							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2-Butanone
 4-Methyl-2-pentanone
 Acetone
 Diethyl ether
 n-Heptane
 n-Hexane

BRL
 BRL
 BRL
 BRL
 BRL
 BRL

10
 10
 10
 10
 10
 10

Sample ID: MB-185167	Client ID:	Units: ug, Total	Prep Date: 12/23/2013	Run No: 258444							
SampleType: MBLK	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 185167	Analysis Date: 12/23/2013	Seq No: 5430637							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene

BRL
 10

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Arcadis
Project Name: Lafarge East Point Air Sparge
Workorder: 1312163

ANALYTICAL QC SUMMARY REPORT

BatchID: 185167

Sample ID: MB-185167	Client ID:	Units: ug, Total	Prep Date: 12/23/2013	Run No: 258444							
SampleType: MBLK	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 185167	Analysis Date: 12/23/2013	Seq No: 5430637							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethylbenzene
m,p-Xylene
Methyl tert-butyl ether
Naphthalene
o-Xylene
Toluene
TRPH (Based on Benzene)

BRL
BRL
BRL
BRL
BRL
BRL
BRL

10
20
10
10
10
10
100

Sample ID: LCS-185167	Client ID:	Units: ug, Total	Prep Date: 12/23/2013	Run No: 258442							
SampleType: LCS	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 185167	Analysis Date: 12/23/2013	Seq No: 5430455							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane
Carbon tetrachloride
Chloroform
Methylene chloride
Tetrachloroethene
Trichloroethene

105.7
108.3
103.6
105.6
105.7
108.5

10
10
10
10
10
10

100.0
100.0
100.0
100.0
100.0
100.0

106
108
104
106
106
108

85
85
83.2
85
85
85

120
126
120
126
118
122

Sample ID: LCS-185167	Client ID:	Units: ug, Total	Prep Date: 12/23/2013	Run No: 258443							
SampleType: LCS	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 185167	Analysis Date: 12/23/2013	Seq No: 5430558							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2-Butanone
4-Methyl-2-pentanone
Acetone
Diethyl ether
n-Heptane

93.36
100.2
81.68
98.22
106.2

10
10
10
10
10

100.0
100.0
100.0
100.0
100.0

93.4
100
81.7
98.2
106

74.2
81.5
70.1
79.9
87

120
120
120
120
121

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	

Client: Arcadis
Project Name: Lafarge East Point Air Sparge
Workorder: 1312163

ANALYTICAL QC SUMMARY REPORT

BatchID: 185167

Sample ID: LCS-185167	Client ID:	Units: ug, Total	Prep Date: 12/23/2013	Run No: 258443							
SampleType: LCS	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 185167	Analysis Date: 12/23/2013	Seq No: 5430558							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

n-Hexane 107.8 10 100.0 108 87.1 123

Sample ID: LCS-185167	Client ID:	Units: ug, Total	Prep Date: 12/23/2013	Run No: 258444							
SampleType: LCS	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 185167	Analysis Date: 12/23/2013	Seq No: 5430644							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene 106.2 10 100.0 106 76 123
 Ethylbenzene 108.1 10 100.0 108 80.2 124
 m,p-Xylene 214.0 20 200.0 107 78 123
 Methyl tert-butyl ether 85.87 10 100.0 85.9 71 120
 Naphthalene 45.68 10 100.0 45.7 34.4 100
 o-Xylene 99.58 10 100.0 99.6 78 118
 Toluene 105.7 10 100.0 106 78.3 121

Sample ID: LCS-185167-2	Client ID:	Units: ug, Total	Prep Date: 12/23/2013	Run No: 258442							
SampleType: LCS	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 185167	Analysis Date: 12/23/2013	Seq No: 5430464							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene 100.1 10 100.0 100 83.6 119
 cis-1,2-Dichloroethene 106.2 10 100.0 106 84.2 123
 trans-1,2-Dichloroethene 100.8 10 100.0 101 85 120

Sample ID: LCS-185167-3	Client ID:	Units: ug, Total	Prep Date: 12/23/2013	Run No: 258442							
SampleType: LCS	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 185167	Analysis Date: 12/23/2013	Seq No: 5430459							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Vinyl chloride 26.21 10 25.00 105 60.4 121

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Arcadis
Project Name: Lafarge East Point Air Sparge
Workorder: 1312163

ANALYTICAL QC SUMMARY REPORT

BatchID: 185167

Sample ID: LCS D-185167	Client ID:	Units: ug, Total	Prep Date: 12/23/2013	Run No: 258442							
SampleType: LCS D	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 185167	Analysis Date: 12/23/2013	Seq No: 5430457							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	107.4	10	100.0		107	85	120	105.7	1.58	15	
Carbon tetrachloride	110.3	10	100.0		110	85	126	108.3	1.84	15	
Chloroform	104.6	10	100.0		105	83.2	120	103.6	0.913	15	
Methylene chloride	106.7	10	100.0		107	85	126	105.6	1.01	15	
Tetrachloroethene	108.5	10	100.0		109	85	118	105.7	2.60	15	
Trichloroethene	111.2	10	100.0		111	85	122	108.5	2.49	15	

Sample ID: LCS D-185167	Client ID:	Units: ug, Total	Prep Date: 12/23/2013	Run No: 258443							
SampleType: LCS D	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 185167	Analysis Date: 12/23/2013	Seq No: 5430560							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2-Butanone	94.59	10	100.0		94.6	74.2	120	93.36	1.31	15	
4-Methyl-2-pentanone	102.3	10	100.0		102	81.5	120	100.2	2.06	15	
Acetone	82.17	10	100.0		82.2	70.1	120	81.68	0.597	15	
Diethyl ether	99.07	10	100.0		99.1	79.9	120	98.22	0.868	15	
n-Heptane	108.3	10	100.0		108	87	121	106.2	1.95	15	
n-Hexane	109.5	10	100.0		109	87.1	123	107.8	1.53	15	

Sample ID: LCS D-185167	Client ID:	Units: ug, Total	Prep Date: 12/23/2013	Run No: 258444							
SampleType: LCS D	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 185167	Analysis Date: 12/23/2013	Seq No: 5430647							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene	108.2	10	100.0		108	76	123	106.2	1.86	15	
Ethylbenzene	110.4	10	100.0		110	80.2	124	108.1	2.12	15	
m,p-Xylene	218.7	20	200.0		109	78	123	214.0	2.18	15	
Methyl tert-butyl ether	86.75	10	100.0		86.8	71	120	85.87	1.02	15	
Naphthalene	45.08	10	100.0		45.1	34.4	100	45.68	1.31	15	
o-Xylene	101.7	10	100.0		102	78	118	99.58	2.11	15	

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Arcadis
 Project Name: Lafarge East Point Air Sparge
 Workorder: 1312163

ANALYTICAL QC SUMMARY REPORT

BatchID: 185167

Sample ID: LCSD-185167	Client ID:	Units: ug, Total	Prep Date: 12/23/2013	Run No: 258444							
SampleType: LCSD	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 185167	Analysis Date: 12/23/2013	Seq No: 5430647							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Toluene	108.1	10	100.0		108	78.3	121	105.7	2.27	15	
---------	-------	----	-------	--	-----	------	-----	-------	------	----	--

Sample ID: LCSD-185167-2	Client ID:	Units: ug, Total	Prep Date: 12/23/2013	Run No: 258442							
SampleType: LCSD	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 185167	Analysis Date: 12/23/2013	Seq No: 5430466							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	99.21	10	100.0		99.2	83.6	119	100.1	0.901	15	
cis-1,2-Dichloroethene	106.8	10	100.0		107	84.2	123	106.2	0.579	15	
trans-1,2-Dichloroethene	101.5	10	100.0		102	85	120	100.8	0.679	15	

Sample ID: LCSD-185167-3	Client ID:	Units: ug, Total	Prep Date: 12/23/2013	Run No: 258442							
SampleType: LCSD	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 185167	Analysis Date: 12/23/2013	Seq No: 5430461							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Vinyl chloride	26.40	10	25.00		106	60.4	121	26.21	0.753	19.2	
----------------	-------	----	-------	--	-----	------	-----	-------	-------	------	--

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
BRL	Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S Spike Recovery outside limits due to matrix	



December 26, 2013

Peter Cornais
Arcadis
1000 Cobb Place Blvd., Bldg. 500-A
Kennesaw GA 30144

TEL: (404) 952-1621
FAX: (770) 428-4004

RE: Lafarge East Point

Dear Peter Cornais:

Order No: 1312K05

Analytical Environmental Services, Inc. received 1 samples on 12/23/2013 3:30:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/13-06/30/14.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/15.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Chantelle Kanhai
Project Manager

CHAIN OF CUSTODY

Work Order: 1312KOS

ANALYTICAL ENVIRONMENTAL SERVICES, INC

3785 Presidential Parkway, Atlanta GA 30340-3704
 TEL: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

Date: 12/23/17 Page 1 of 1

COMPANY: ARCADIS ADDRESS: 1000 Cobb Place Blvd. Atlanta, GA 30144 PHONE: 770.428.9009 FAX: 770.428.4004 SAMPLED BY: D. Borming		ANALYSIS REQUESTED PRESERVATION (See codes)		REMARKS Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.		No # of Containers
SIGNATURE: <i>[Signature]</i>		EPAs Full List		No # of Containers		
#	SAMPLE ID	DATE	TIME	Grab	Composite	Matrix (See codes)
1	SVE-INF-12232013-1500	12/23/17	1500	X		AIR
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
RELINQUISHED BY: <i>[Signature]</i>		DATE/TIME RECEIVED: 12/23/17	PROJECT INFORMATION PROJECT NAME: Catara East Point PROJECT #: HT212516.0006 SITE ADDRESS: 1475 R.N. Martin St. East Point GA SEND REPORT TO: Peter.Cornall@arcadis-us.com INVOICE TO: (IF DIFFERENT FROM ABOVE) QUOTE #:			
SPECIAL INSTRUCTIONS/COMMENTS: SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES. SAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMPLETION UNLESS OTHER ARRANGEMENTS ARE MADE.		RECEIVED BY: <i>[Signature]</i>	DATE/TIME: 12/23/17	SHIPMENT METHOD OUT: / / VIA: IN: <i>[Signature]</i> VIA: CLIENT FedEx UPS MAIL COURIER GREYHOUND OTHER		
MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+H = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None		STATE PROGRAM (if any): E-mail? Y/N; Fax? Y/N DATA PACKAGE: I II III IV		Turnaround Time Request Standard 5 Business Days 2 Business Day Rush Next Business Day Rush Same Day Rush (auth req.) Other		

White Copy - Original; Yellow Copy - Client

Analytical Results

for

Arcadis

Date: 26-Dec-13

Workorder: 1312K05

Client Reference: Lafarge East Point

Analyte	Concentration					Limit of Detection (ug)	Qual	Date Analyzed /Analyst	Test Method	
	Total (ug)	Front (ug)	Back (ug)	(mg/m3)	(ppm)					
Client ID: SVE_INF_12232013_1500	Lab ID: 1312K05-001A		Date Sampled: 12/23/2013		Media: Tedlar Bag	Air Vol.(L): 1				
1,1,1-Trichloroethane	<10	<10	<10	<10	<1.8	10	12/23/2013	RUF	EPA18	
1,1-Dichloroethene	<10	<10	<10	<10	<2.5	10	12/23/2013	RUF	EPA18	
2-Butanone	<10	<10	<10	<10	<3.4	10	12/23/2013	RUF	EPA18	
4-Methyl-2-pentanone	<10	<10	<10	<10	<2.4	10	12/23/2013	RUF	EPA18	
Acetone	<10	<10	<10	<10	<4.2	10	12/23/2013	RUF	EPA18	
Benzene	<10	<10	<10	<10	<3.1	10	12/23/2013	RUF	EPA18	
Carbon tetrachloride	<10	<10	<10	<10	<1.6	10	12/23/2013	RUF	EPA18	
Chloroform	<10	<10	<10	<10	<2.0	10	12/23/2013	RUF	EPA18	
cis-1,2-Dichloroethene	180	177.012	<10	180	45	10	12/23/2013	RUF	EPA18	
Diethyl ether	<10	<10	<10	<10	<3.3	10	12/23/2013	RUF	EPA18	
Ethylbenzene	110	113.933	<10	110	26	10	12/23/2013	RUF	EPA18	
Freon 141B	<10	<10	<10	<10	<2.1	10	12/23/2013	RUF	EPA18	
m,p-Xylene	390	392.816	<20	390	90	20	12/23/2013	RUF	EPA18	
Methyl tert-butyl ether	<10	<10	<10	<10	<2.8	10	12/23/2013	RUF	EPA18	
Methylene chloride	<10	<10	<10	<10	<2.9	10	12/23/2013	RUF	EPA18	
n-Heptane	900	903.515	<10	900	220	10	12/23/2013	RUF	EPA18	
n-Hexane	1300	1297.24	<10	1300	370	10	12/23/2013	RUF	EPA18	
Naphthalene	<10	<10	<10	<10	<1.9	10	12/23/2013	RUF	EPA18	
o-Xylene	68	68.053	<10	68	16	10	12/23/2013	RUF	EPA18	
Tetrachloroethene	<10	<10	<10	<10	<1.5	10	12/23/2013	RUF	EPA18	
Toluene	2400	2409.02	<100	2400	640	100	12/24/2013	RUF	EPA18	
trans-1,2-Dichloroethene	<10	<10	<10	<10	<2.5	10	12/23/2013	RUF	EPA18	
Trichloroethene	1300	1330.48	<10	1300	250	10	12/23/2013	RUF	EPA18	
TRPH (Based on Benzene)	11000	11157	<100	11000	3500	100	E	12/23/2013	RUF	EPA18
Vinyl chloride	<10	<10	<10	<10	<3.9	10	12/23/2013	RUF	EPA18	

Qualifiers:

< Less than the indicated limit of detection (LOD)

H Holding time for preparation or analysis

B Analyte detected in the associated Method Blank

(a) Analysis indicates possible breakthrough; back section result is greater than

10 % of the front section result.

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Arcadis

Work Order Number 1312K05

Checklist completed by Catoya R 12/23/13
Signature Date

Carrier name: FedEx UPS Courier Client US Mail Other

Shipping container/cooler in good condition? Yes No Not Present

Custody seals intact on shipping container/cooler? Yes No Not Present

Custody seals intact on sample bottles? UR 12/23/13 Yes No Not Present

Container/Temp Blank temperature in compliance? ($\pm 2^{\circ}\text{C}$) * Yes No

Cooler #1 Ambient Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler #5 _____ Cooler #6 _____

Chain of custody present? Yes No

Chain of custody signed when relinquished and received? Yes No

Chain of custody agrees with sample labels? Yes No

Samples in proper container/bottle? Yes No

Sample containers intact? Yes No

Sufficient sample volume for indicated test? Yes No

All samples received within holding time? Yes No

Was TAT marked on the COC? Yes No

Proceed with Standard TAT as per project history? Yes No Not Applicable

Water - VOA vials have zero headspace? No VOA vials submitted Yes No

Water - pH acceptable upon receipt? Yes No Not Applicable

Adjusted? _____ Checked by _____

Sample Condition: Good Other(Explain) _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes No

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

Client: Arcadis
 Project Name: Lafarge East Point
 Workorder: 1312K05

ANALYTICAL QC SUMMARY REPORT

BatchID: 185167

Sample ID: MB-185167	Client ID:	Units: ug, Total	Prep Date: 12/23/2013	Run No: 258442							
SampleType: MBLK	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 185167	Analysis Date: 12/23/2013	Seq No: 5430453							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	BRL	10									
1,1-Dichloroethene	BRL	10									
Carbon tetrachloride	BRL	10									
Chloroform	BRL	10									
cis-1,2-Dichloroethene	BRL	10									
Freon 141B	BRL	10									
Methylene chloride	BRL	10									
Tetrachloroethene	BRL	10									
trans-1,2-Dichloroethene	BRL	10									
Trichloroethene	BRL	10									
Vinyl chloride	BRL	10									

Sample ID: MB-185167	Client ID:	Units: ug, Total	Prep Date: 12/23/2013	Run No: 258443							
SampleType: MBLK	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 185167	Analysis Date: 12/23/2013	Seq No: 5430555							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2-Butanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	10									
Diethyl ether	BRL	10									
n-Heptane	BRL	10									
n-Hexane	BRL	10									

Sample ID: MB-185167	Client ID:	Units: ug, Total	Prep Date: 12/23/2013	Run No: 258444							
SampleType: MBLK	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 185167	Analysis Date: 12/23/2013	Seq No: 5430637							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene	BRL	10									
---------	-----	----	--	--	--	--	--	--	--	--	--

Qualifiers:

> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	

Client: Arcadis
 Project Name: Lafarge East Point
 Workorder: 1312K05

ANALYTICAL QC SUMMARY REPORT

BatchID: 185167

Sample ID: MB-185167	Client ID:	Units: ug, Total	Prep Date: 12/23/2013	Run No: 258444							
SampleType: MBLK	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 185167	Analysis Date: 12/23/2013	Seq No: 5430637							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethylbenzene
 m,p-Xylene
 Methyl tert-butyl ether
 Naphthalene
 o-Xylene
 Toluene
 TRPH (Based on Benzene)

BRL
 BRL
 BRL
 BRL
 BRL
 BRL
 BRL

10
 20
 10
 10
 10
 10
 100

Sample ID: LCS-185167	Client ID:	Units: ug, Total	Prep Date: 12/23/2013	Run No: 258442							
SampleType: LCS	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 185167	Analysis Date: 12/23/2013	Seq No: 5430455							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane
 Carbon tetrachloride
 Chloroform
 Methylene chloride
 Tetrachloroethene
 Trichloroethene

105.7
 108.3
 103.6
 105.6
 105.7
 108.5

10
 10
 10
 10
 10
 10

100.0
 100.0
 100.0
 100.0
 100.0
 100.0

106
 108
 104
 106
 106
 108

85
 85
 83.2
 85
 85
 85

120
 126
 120
 126
 118
 122

Sample ID: LCS-185167	Client ID:	Units: ug, Total	Prep Date: 12/23/2013	Run No: 258443							
SampleType: LCS	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 185167	Analysis Date: 12/23/2013	Seq No: 5430558							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2-Butanone
 4-Methyl-2-pentanone
 Acetone
 Diethyl ether
 n-Heptane

93.36
 100.2
 81.68
 98.22
 106.2

10
 10
 10
 10
 10

100.0
 100.0
 100.0
 100.0
 100.0

93.4
 100
 81.7
 98.2
 106

74.2
 81.5
 70.1
 79.9
 87

120
 120
 120
 120
 121

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	

Client: Arcadis
Project Name: Lafarge East Point
Workorder: 1312K05

ANALYTICAL QC SUMMARY REPORT

BatchID: 185167

Sample ID: LCS-185167	Client ID:	Units: ug, Total	Prep Date: 12/23/2013	Run No: 258443							
SampleType: LCS	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 185167	Analysis Date: 12/23/2013	Seq No: 5430558							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

n-Hexane 107.8 10 100.0 108 87.1 123

Sample ID: LCS-185167	Client ID:	Units: ug, Total	Prep Date: 12/23/2013	Run No: 258444							
SampleType: LCS	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 185167	Analysis Date: 12/23/2013	Seq No: 5430644							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene 106.2 10 100.0 106 76 123
 Ethylbenzene 108.1 10 100.0 108 80.2 124
 m,p-Xylene 214.0 20 200.0 107 78 123
 Methyl tert-butyl ether 85.87 10 100.0 85.9 71 120
 Naphthalene 45.68 10 100.0 45.7 34.4 100
 o-Xylene 99.58 10 100.0 99.6 78 118
 Toluene 105.7 10 100.0 106 78.3 121

Sample ID: LCS-185167-2	Client ID:	Units: ug, Total	Prep Date: 12/23/2013	Run No: 258442							
SampleType: LCS	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 185167	Analysis Date: 12/23/2013	Seq No: 5430464							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene 100.1 10 100.0 100 83.6 119
 cis-1,2-Dichloroethene 106.2 10 100.0 106 84.2 123
 trans-1,2-Dichloroethene 100.8 10 100.0 101 85 120

Sample ID: LCS-185167-3	Client ID:	Units: ug, Total	Prep Date: 12/23/2013	Run No: 258442							
SampleType: LCS	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 185167	Analysis Date: 12/23/2013	Seq No: 5430459							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Vinyl chloride 26.21 10 25.00 105 60.4 121

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Arcadis
Project Name: Lafarge East Point
Workorder: 1312K05

ANALYTICAL QC SUMMARY REPORT

BatchID: 185167

Sample ID: LCSD-185167	Client ID:	Units: ug, Total	Prep Date: 12/23/2013	Run No: 258442							
SampleType: LCSD	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 185167	Analysis Date: 12/23/2013	Seq No: 5430457							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	107.4	10	100.0		107	85	120	105.7	1.58	15	
Carbon tetrachloride	110.3	10	100.0		110	85	126	108.3	1.84	15	
Chloroform	104.6	10	100.0		105	83.2	120	103.6	0.913	15	
Methylene chloride	106.7	10	100.0		107	85	126	105.6	1.01	15	
Tetrachloroethene	108.5	10	100.0		109	85	118	105.7	2.60	15	
Trichloroethene	111.2	10	100.0		111	85	122	108.5	2.49	15	

Sample ID: LCSD-185167	Client ID:	Units: ug, Total	Prep Date: 12/23/2013	Run No: 258443							
SampleType: LCSD	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 185167	Analysis Date: 12/23/2013	Seq No: 5430560							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2-Butanone	94.59	10	100.0		94.6	74.2	120	93.36	1.31	15	
4-Methyl-2-pentanone	102.3	10	100.0		102	81.5	120	100.2	2.06	15	
Acetone	82.17	10	100.0		82.2	70.1	120	81.68	0.597	15	
Diethyl ether	99.07	10	100.0		99.1	79.9	120	98.22	0.868	15	
n-Heptane	108.3	10	100.0		108	87	121	106.2	1.95	15	
n-Hexane	109.5	10	100.0		109	87.1	123	107.8	1.53	15	

Sample ID: LCSD-185167	Client ID:	Units: ug, Total	Prep Date: 12/23/2013	Run No: 258444							
SampleType: LCSD	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 185167	Analysis Date: 12/23/2013	Seq No: 5430647							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene	108.2	10	100.0		108	76	123	106.2	1.86	15	
Ethylbenzene	110.4	10	100.0		110	80.2	124	108.1	2.12	15	
m,p-Xylene	218.7	20	200.0		109	78	123	214.0	2.18	15	
Methyl tert-butyl ether	86.75	10	100.0		86.8	71	120	85.87	1.02	15	
Naphthalene	45.08	10	100.0		45.1	34.4	100	45.68	1.31	15	
o-Xylene	101.7	10	100.0		102	78	118	99.58	2.11	15	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
Project Name: Lafarge East Point
Workorder: 1312K05

ANALYTICAL QC SUMMARY REPORT

BatchID: 185167

Sample ID: LCSD-185167	Client ID:	Units: ug, Total	Prep Date: 12/23/2013	Run No: 258444							
SampleType: LCSD	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 185167	Analysis Date: 12/23/2013	Seq No: 5430647							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Toluene	108.1	10	100.0		108	78.3	121	105.7	2.27	15	
---------	-------	----	-------	--	-----	------	-----	-------	------	----	--

Sample ID: LCSD-185167-2	Client ID:	Units: ug, Total	Prep Date: 12/23/2013	Run No: 258442							
SampleType: LCSD	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 185167	Analysis Date: 12/23/2013	Seq No: 5430466							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	99.21	10	100.0		99.2	83.6	119	100.1	0.901	15	
cis-1,2-Dichloroethene	106.8	10	100.0		107	84.2	123	106.2	0.579	15	
trans-1,2-Dichloroethene	101.5	10	100.0		102	85	120	100.8	0.679	15	

Sample ID: LCSD-185167-3	Client ID:	Units: ug, Total	Prep Date: 12/23/2013	Run No: 258442							
SampleType: LCSD	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 185167	Analysis Date: 12/23/2013	Seq No: 5430461							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Vinyl chloride	26.40	10	25.00		106	60.4	121	26.21	0.753	19.2	
----------------	-------	----	-------	--	-----	------	-----	-------	-------	------	--

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		



January 02, 2014

Peter Cornais
Arcadis
2081 Vista Parkway, Suite 200
West Palm Beach FL 33411

TEL: (850) 445-0829
FAX:

RE: Lafarge Air Sparge System

Dear Peter Cornais:

Order No: 1312M67

Analytical Environmental Services, Inc. received 2 samples on 12/27/2013 6:29:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/13-06/30/14.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/15.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Chantelle Kanhai
Project Manager



ANALYTICAL ENVIRONMENTAL SERVICES, INC

3785 Presidential Parkway, Atlanta GA 30340-3704

AES TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1312M67

Date: 12-27-13 Page 1 of 1

COMPANY: **Arcadis**
 ADDRESS: **1000 Cobb Place Blvd Building 500A Kennesaw, GA 30144**
 PHONE: **770 428 9009** FAX: **770 428 4004**
 SAMPLED BY: **Loren Jenkins** SIGNATURE: *Loren Jenkins*

#	SAMPLE ID	SAMPLED		Grab	Composite	Matrix (See codes)	ANALYSIS REQUESTED	REMARKS	No # of Containers
		DATE	TIME						
1	SVE-GAC- INF- 122713- 1714	12-27-13	1714	/		Air		2 day turn (part)	1
2	SVE-GAC- EFF- 122713- 1716	12-27-13	1716	/		Air		Standard TAT	1
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									

RELINQUISHED BY: *Loren Jenkins* DATE/TIME: **12-27-13 1829**
 RECEIVED BY: *[Signature]* DATE/TIME: **12/27/13 6:29**

PROJECT NAME: **Lafarge Air Sparge sys tem**
 PROJECT #: **HT212516.0006.00001**
 SITE ADDRESS: **2625 N. Martin ST East Point, GA**
 SEND REPORT TO: **peter.cornak@arcadis-us.com**
 INVOICE TO: (IF DIFFERENT FROM ABOVE)
 QUOTE #: _____ PO#: _____

SPECIAL INSTRUCTIONS/COMMENTS:

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES. SAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMPLETION UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water
 PRESERVATIVE CODES: HH = Hydrochloric acid + ice I = Ice only N = Nitric acid S+H = Sulfuric acid + ice S/M+H = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

SHIPMENT METHOD: **OUT** VIA: **UPS MAIL COURIER**
 IN VIA: **GREYHOUND OTHER**

RECEIPT: Total # of Containers **2**

Turnaround Time Request: Standard 5 Business Days 2 Business Day Rush Next Business Day Rush Same Day Rush (auth req.) Other

STATE PROGRAM (if any): _____
 E-mail? Y / N: _____ Fax? Y / N: _____
 DATA PACKAGE: I II III IV

Analytical Results

for

Arcadis

Date: 2-Jan-14

Workorder: 1312M67

Client Reference: Lafarge Air Sparge System

Analyte	Concentration					Limit of Detection (ug)	Qual	Date Analyzed /Analyst	Test Method
	Total (ug)	Front (ug)	Back (ug)	(mg/m3)	(ppm)				
Client ID: SVE_GAC_INF_122713_1714	Lab ID: 1312M67-001A	Date Sampled: 12/27/2013	Media: Tedlar Bag	Air Vol.(L): 1					
1,1,1-Trichloroethane	<10	<10	<10	<10	<1.8	10	12/30/2013	RUF	EPA18
1,1-Dichloroethene	<10	<10	<10	<10	<2.5	10	12/30/2013	RUF	EPA18
2-Butanone	<10	<10	<10	<10	<3.4	10	12/30/2013	RUF	EPA18
4-Methyl-2-pentanone	<10	<10	<10	<10	<2.4	10	12/30/2013	RUF	EPA18
Acetone	<10	<10	<10	<10	<4.2	10	12/30/2013	RUF	EPA18
Benzene	<10	<10	<10	<10	<3.1	10	12/30/2013	RUF	EPA18
Carbon tetrachloride	<10	<10	<10	<10	<1.6	10	12/30/2013	RUF	EPA18
Chloroform	<10	<10	<10	<10	<2.0	10	12/30/2013	RUF	EPA18
cis-1,2-Dichloroethene	40	39.912	<10	40	10	10	12/30/2013	RUF	EPA18
Diethyl ether	<10	<10	<10	<10	<3.3	10	12/30/2013	RUF	EPA18
Ethylbenzene	57	57.015	<10	57	13	10	12/30/2013	RUF	EPA18
Freon 141B	<10	<10	<10	<10	<2.1	10	12/30/2013	RUF	EPA18
m,p-Xylene	190	186.447	<20	190	43	20	12/30/2013	RUF	EPA18
Methyl tert-butyl ether	<10	<10	<10	<10	<2.8	10	12/30/2013	RUF	EPA18
Methylene chloride	<10	<10	<10	<10	<2.9	10	12/30/2013	RUF	EPA18
n-Heptane	460	456.745	<10	460	110	10	12/30/2013	RUF	EPA18
n-Hexane	820	820.663	<10	820	230	10	12/30/2013	RUF	EPA18
Naphthalene	<10	<10	<10	<10	<1.9	10	12/30/2013	RUF	EPA18
o-Xylene	32	31.886	<10	32	7.3	10	12/30/2013	RUF	EPA18
Tetrachloroethene	<10	<10	<10	<10	<1.5	10	12/30/2013	RUF	EPA18
Toluene	1100	1137.97	<10	1100	300	10	12/30/2013	RUF	EPA18
trans-1,2-Dichloroethene	<10	<10	<10	<10	<2.5	10	12/30/2013	RUF	EPA18
Trichloroethene	430	425.867	<10	430	79	10	12/30/2013	RUF	EPA18
TRPH (Based on Benzene)	5800	5773.2	<100	5800	1800	100	12/30/2013	RUF	EPA18
Vinyl chloride	<10	<10	<10	<10	<3.9	10	12/30/2013	RUF	EPA18

Client ID: SVE_GAC_EFF_122713_1716	Lab ID: 1312M67-002A	Date Sampled: 12/27/2013	Media: Tedlar Bag	Air Vol.(L): 1					
1,1,1-Trichloroethane	<10	<10	<10	<10	<1.8	10	12/30/2013	RUF	EPA18
1,1-Dichloroethene	<10	<10	<10	<10	<2.5	10	12/30/2013	RUF	EPA18
2-Butanone	<10	<10	<10	<10	<3.4	10	12/30/2013	RUF	EPA18
4-Methyl-2-pentanone	<10	<10	<10	<10	<2.4	10	12/30/2013	RUF	EPA18
Acetone	<10	<10	<10	<10	<4.2	10	12/30/2013	RUF	EPA18
Benzene	<10	<10	<10	<10	<3.1	10	12/30/2013	RUF	EPA18
Carbon tetrachloride	<10	<10	<10	<10	<1.6	10	12/30/2013	RUF	EPA18
Chloroform	<10	<10	<10	<10	<2.0	10	12/30/2013	RUF	EPA18
cis-1,2-Dichloroethene	<10	<10	<10	<10	<2.5	10	12/30/2013	RUF	EPA18
Diethyl ether	<10	<10	<10	<10	<3.3	10	12/30/2013	RUF	EPA18
Ethylbenzene	<10	<10	<10	<10	<2.3	10	12/30/2013	RUF	EPA18
Freon 141B	<10	<10	<10	<10	<2.1	10	12/30/2013	RUF	EPA18

Qualifiers:

< Less than the indicated limit of detection (LOD)

H Holding time for preparation or analysis

B Analyte detected in the associated Method Blank

(a) Analysis indicates possible breakthrough; back section result is greater than

10 % of the front section result.

**Analytical Results
for**

Arcadis

Date: 2-Jan-14

Workorder: 1312M67

Client Reference: Lafarge Air Sparge System

Analyte	Concentration					Limit of Detection (ug)	Qual	Date Analyzed /Analyst	Test Method
	Total (ug)	Front (ug)	Back (ug)	(mg/m3)	(ppm)				
m,p-Xylene	<20	<20	<20	<20	<4.6	20	12/30/2013 RUF	EPA18	
Methyl tert-butyl ether	<10	<10	<10	<10	<2.8	10	12/30/2013 RUF	EPA18	
Methylene chloride	<10	<10	<10	<10	<2.9	10	12/30/2013 RUF	EPA18	
n-Heptane	<10	<10	<10	<10	<2.4	10	12/30/2013 RUF	EPA18	
n-Hexane	<10	<10	<10	<10	<2.8	10	12/30/2013 RUF	EPA18	
Naphthalene	<10	<10	<10	<10	<1.9	10	12/30/2013 RUF	EPA18	
o-Xylene	<10	<10	<10	<10	<2.3	10	12/30/2013 RUF	EPA18	
Tetrachloroethene	<10	<10	<10	<10	<1.5	10	12/30/2013 RUF	EPA18	
Toluene	<10	<10	<10	<10	<2.6	10	12/30/2013 RUF	EPA18	
trans-1,2-Dichloroethene	<10	<10	<10	<10	<2.5	10	12/30/2013 RUF	EPA18	
Trichloroethene	<10	<10	<10	<10	<1.9	10	12/30/2013 RUF	EPA18	
TRPH (Based on Benzene)	<100	<100	<100	<100	<31	100	12/30/2013 RUF	EPA18	
Vinyl chloride	<10	<10	<10	<10	<3.9	10	12/30/2013 RUF	EPA18	

Qualifiers:

< Less than the indicated limit of detection (LOD)

H Holding time for preparation or analysis

B Analyte detected in the associated Method Blank

(a) Analysis indicates possible breakthrough; back section result is greater than

10 % of the front section result.

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Arcadis

Work Order Number 1312M67

Checklist completed by [Signature] Date 12/27/13

Carrier name: FedEx UPS Courier Client US Mail Other

Shipping container/cooler in good condition? Yes No Not Present

Custody seals intact on shipping container/cooler? Yes No Not Present

Custody seals intact on sample bottles? Yes No Not Present

Container/Temp Blank temperature in compliance? du3 12/27/13 Yes No (4°C±2)*

Cooler #1 amb Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler #5 _____ Cooler #6 _____

Chain of custody present? Yes No

Chain of custody signed when relinquished and received? Yes No

Chain of custody agrees with sample labels? Yes No

Samples in proper container/bottle? Yes No

Sample containers intact? Yes No

Sufficient sample volume for indicated test? Yes No

All samples received within holding time? Yes No

Was TAT marked on the COC? Yes No

Proceed with Standard TAT as per project history? Yes No Not Applicable

Water - VOA vials have zero headspace? No VOA vials submitted Yes No

Water - pH acceptable upon receipt? Yes No Not Applicable

Adjusted? _____ Checked by _____

Sample Condition: Good Other(Explain) _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes No

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

Client: Arcadis
Project: Lafarge Air Sparge System
Lab Order: 1312M67

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1312M67-001A	SVE_GAC_INF_122713_1714	12/27/2013 5:14:00PM	Air	Aromatic Volatiles in Air		12/30/2013	12/30/2013
1312M67-001A	SVE_GAC_INF_122713_1714	12/27/2013 5:14:00PM	Air	Chlorinated Volatiles in Air		12/30/2013	12/30/2013
1312M67-001A	SVE_GAC_INF_122713_1714	12/27/2013 5:14:00PM	Air	Volatile Hydrocarbons in Air		12/30/2013	12/30/2013
1312M67-002A	SVE_GAC_EFF_122713_1716	12/27/2013 5:16:00PM	Air	Aromatic Volatiles in Air		12/30/2013	12/30/2013
1312M67-002A	SVE_GAC_EFF_122713_1716	12/27/2013 5:16:00PM	Air	Chlorinated Volatiles in Air		12/30/2013	12/30/2013
1312M67-002A	SVE_GAC_EFF_122713_1716	12/27/2013 5:16:00PM	Air	Volatile Hydrocarbons in Air		12/30/2013	12/30/2013

Client: Arcadis
Project Name: Lafarge Air Sparge System
Workorder: 1312M67

ANALYTICAL QC SUMMARY REPORT

BatchID: 185400

Sample ID: MB-185400	Client ID:	Units: ug, Total	Prep Date: 12/30/2013	Run No: 258857							
SampleType: MBLK	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 185400	Analysis Date: 12/30/2013	Seq No: 5440621							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane
 1,1-Dichloroethene
 Carbon tetrachloride
 Chloroform
 cis-1,2-Dichloroethene
 Freon 141B
 Methylene chloride
 Tetrachloroethene
 trans-1,2-Dichloroethene
 Trichloroethene
 Vinyl chloride

BRL
 BRL

10
 10
 10
 10
 10
 10
 10
 10
 10
 10
 10

Sample ID: MB-185400	Client ID:	Units: ug, Total	Prep Date: 12/30/2013	Run No: 258858							
SampleType: MBLK	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 185400	Analysis Date: 12/30/2013	Seq No: 5440681							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2-Butanone
 4-Methyl-2-pentanone
 Acetone
 Diethyl ether
 n-Heptane
 n-Hexane

BRL
 BRL
 BRL
 BRL
 BRL
 BRL

10
 10
 10
 10
 10
 10

Sample ID: MB-185400	Client ID:	Units: ug, Total	Prep Date: 12/30/2013	Run No: 258859							
SampleType: MBLK	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 185400	Analysis Date: 12/30/2013	Seq No: 5440726							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene

BRL
 10

Qualifiers:

- | | | |
|--|---|--|
| > Greater than Result value | < Less than Result value | B Analyte detected in the associated method blank |
| BRL Below reporting limit | E Estimated (value above quantitation range) | H Holding times for preparation or analysis exceeded |
| J Estimated value detected below Reporting Limit | N Analyte not NELAC certified | R RPD outside limits due to matrix |
| Rpt Lim Reporting Limit | S Spike Recovery outside limits due to matrix | |

Client: Arcadis
Project Name: Lafarge Air Sparge System
Workorder: 1312M67

ANALYTICAL QC SUMMARY REPORT

BatchID: 185400

Sample ID: MB-185400	Client ID:	Units: ug, Total	Prep Date: 12/30/2013	Run No: 258859							
SampleType: MBLK	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 185400	Analysis Date: 12/30/2013	Seq No: 5440726							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethylbenzene
m,p-Xylene
Methyl tert-butyl ether
Naphthalene
o-Xylene
Toluene
TRPH (Based on Benzene)

BRL
BRL
BRL
BRL
BRL
BRL
BRL

10
20
10
10
10
10
100

Sample ID: LCS-185400	Client ID:	Units: ug, Total	Prep Date: 12/30/2013	Run No: 258857							
SampleType: LCS	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 185400	Analysis Date: 12/30/2013	Seq No: 5440624							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane
Carbon tetrachloride
Chloroform
Methylene chloride
Tetrachloroethene
Trichloroethene

108.9
112.2
106.8
107.5
108.7
111.8

10
10
10
10
10
10

100.0
100.0
100.0
100.0
100.0
100.0

109
112
107
107
109
112

85
85
83.2
85
85
85

120
126
120
126
118
122

Sample ID: LCS-185400	Client ID:	Units: ug, Total	Prep Date: 12/30/2013	Run No: 258858							
SampleType: LCS	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 185400	Analysis Date: 12/30/2013	Seq No: 5440684							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2-Butanone
4-Methyl-2-pentanone
Acetone
Diethyl ether
n-Heptane

96.08
103.9
82.76
99.50
109.8

10
10
10
10
10

100.0
100.0
100.0
100.0
100.0

96.1
104
82.8
99.5
110

74.2
81.5
70.1
79.9
87

120
120
120
120
121

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	

Client: Arcadis
Project Name: Lafarge Air Sparge System
Workorder: 1312M67

ANALYTICAL QC SUMMARY REPORT

BatchID: 185400

Sample ID: LCS-185400	Client ID:	Units: ug, Total	Prep Date: 12/30/2013	Run No: 258858							
SampleType: LCS	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 185400	Analysis Date: 12/30/2013	Seq No: 5440684							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

n-Hexane 110.3 10 100.0 110 87.1 123

Sample ID: LCS-185400	Client ID:	Units: ug, Total	Prep Date: 12/30/2013	Run No: 258859							
SampleType: LCS	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 185400	Analysis Date: 12/30/2013	Seq No: 5440728							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene 109.6 10 100.0 110 76 123
 Ethylbenzene 111.9 10 100.0 112 80.2 124
 m,p-Xylene 221.4 20 200.0 111 78 123
 Methyl tert-butyl ether 87.88 10 100.0 87.9 71 120
 Naphthalene 46.94 10 100.0 46.9 34.4 100
 o-Xylene 103.3 10 100.0 103 78 118
 Toluene 109.2 10 100.0 109 78.3 121

Sample ID: LCS-185400-2	Client ID:	Units: ug, Total	Prep Date: 12/30/2013	Run No: 258857							
SampleType: LCS	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 185400	Analysis Date: 12/30/2013	Seq No: 5440632							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene 100.7 10 100.0 101 83.6 119
 cis-1,2-Dichloroethene 107.5 10 100.0 108 84.2 123
 trans-1,2-Dichloroethene 102.4 10 100.0 102 85 120

Sample ID: LCS-185400-3	Client ID:	Units: ug, Total	Prep Date: 12/30/2013	Run No: 258857							
SampleType: LCS	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 185400	Analysis Date: 12/30/2013	Seq No: 5440628							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Vinyl chloride 26.11 10 25.00 104 60.4 121

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Arcadis
Project Name: Lafarge Air Sparge System
Workorder: 1312M67

ANALYTICAL QC SUMMARY REPORT

BatchID: 185400

Sample ID: LCSD-185400	Client ID:	Units: ug, Total	Prep Date: 12/30/2013	Run No: 258857							
SampleType: LCSD	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 185400	Analysis Date: 12/30/2013	Seq No: 5440626							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	109.0	10	100.0		109	85	120	108.9	0.130	15	
Carbon tetrachloride	111.4	10	100.0		111	85	126	112.2	0.673	15	
Chloroform	105.8	10	100.0		106	83.2	120	106.8	0.905	15	
Methylene chloride	105.8	10	100.0		106	85	126	107.5	1.53	15	
Tetrachloroethene	109.4	10	100.0		109	85	118	108.7	0.634	15	
Trichloroethene	112.4	10	100.0		112	85	122	111.8	0.556	15	

Sample ID: LCSD-185400	Client ID:	Units: ug, Total	Prep Date: 12/30/2013	Run No: 258858							
SampleType: LCSD	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 185400	Analysis Date: 12/30/2013	Seq No: 5440685							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2-Butanone	95.37	10	100.0		95.4	74.2	120	96.08	0.748	15	
4-Methyl-2-pentanone	104.3	10	100.0		104	81.5	120	103.9	0.353	15	
Acetone	82.19	10	100.0		82.2	70.1	120	82.76	0.684	15	
Diethyl ether	99.44	10	100.0		99.4	79.9	120	99.50	0.062	15	
n-Heptane	110.4	10	100.0		110	87	121	109.8	0.541	15	
n-Hexane	111.0	10	100.0		111	87.1	123	110.3	0.653	15	

Sample ID: LCSD-185400	Client ID:	Units: ug, Total	Prep Date: 12/30/2013	Run No: 258859							
SampleType: LCSD	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 185400	Analysis Date: 12/30/2013	Seq No: 5440730							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene	110.1	10	100.0		110	76	123	109.6	0.435	15	
Ethylbenzene	112.7	10	100.0		113	80.2	124	111.9	0.702	15	
m,p-Xylene	223.1	20	200.0		112	78	123	221.4	0.756	15	
Methyl tert-butyl ether	87.49	10	100.0		87.5	71	120	87.88	0.449	15	
Naphthalene	47.16	10	100.0		47.2	34.4	100	46.94	0.468	15	
o-Xylene	103.9	10	100.0		104	78	118	103.3	0.574	15	

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Arcadis
Project Name: Lafarge Air Sparge System
Workorder: 1312M67

ANALYTICAL QC SUMMARY REPORT

BatchID: 185400

Sample ID: LCSD-185400	Client ID:	Units: ug, Total	Prep Date: 12/30/2013	Run No: 258859							
SampleType: LCSD	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 185400	Analysis Date: 12/30/2013	Seq No: 5440730							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Toluene	109.9	10	100.0		110	78.3	121	109.2	0.649	15	
---------	-------	----	-------	--	-----	------	-----	-------	-------	----	--

Sample ID: LCSD-185400-2	Client ID:	Units: ug, Total	Prep Date: 12/30/2013	Run No: 258857							
SampleType: LCSD	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 185400	Analysis Date: 12/30/2013	Seq No: 5440634							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	100.8	10	100.0		101	83.6	119	100.7	0.114	15	
cis-1,2-Dichloroethene	107.5	10	100.0		108	84.2	123	107.5	0.007	15	
trans-1,2-Dichloroethene	102.0	10	100.0		102	85	120	102.4	0.388	15	

Sample ID: LCSD-185400-3	Client ID:	Units: ug, Total	Prep Date: 12/30/2013	Run No: 258857							
SampleType: LCSD	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 185400	Analysis Date: 12/30/2013	Seq No: 5440630							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Vinyl chloride	26.04	10	25.00		104	60.4	121	26.11	0.253	19.2	
----------------	-------	----	-------	--	-----	------	-----	-------	-------	------	--

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
BRL	Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S Spike Recovery outside limits due to matrix	



January 06, 2014

Peter Cornais
Arcadis
2081 Vista Parkway, Suite 200
West Palm Beach FL 33411

TEL: (850) 445-0829
FAX:

RE: Lafarge SVE System

Dear Peter Cornais:

Order No: 1401061

Analytical Environmental Services, Inc. received 2 samples on 1/2/2014 5:30:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/13-06/30/14.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/15.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Chantelle Kanhai
Project Manager

CHAIN OF CUSTODY

ANALYTICAL ENVIRONMENTAL SERVICES, INC
 3785 Presidential Parkway, Atlanta GA 30340-3704
 TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

#	SAMPLE ID	SAMPLED		Grab	Composite	Matrix (See codes)	ANALYSIS REQUESTED	PRESERVATION (See codes)	REMARKS	No # of Containers
		DATE	TIME							
1	SVE-GAC-INF-010214-1645	010214	1645	-	-	AIR			2 days TAT	1
2	SVE-GAC-EFF-010214-1700	010214	1700	-	-	AIR			5 days TAT	1
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										

COMPANY: **ARCADIS**
 ADDRESS: 1000 Cobb Place Blvd.
 814-5000A
 Kennesaw, GA 30144
 PHONE: 770.420.9009
 FAX: 770.428.4004
 SAMPLED BY: *D. Dermigny*
 SIGNATURE: *[Signature]*

PROJECT NAME: **Lafarge SVE system**
 PROJECT #: **HT212516.ORG.00001**
 SITE ADDRESS: **2675 R.N. Maxwell Street East Point, GA**
 SEND REPORT TO: **peter.comais@arcadis-us.com**
 INVOICE TO: (IF DIFFERENT FROM ABOVE)
 QUOTE # _____ PO# _____

DATE/TIME RECEIVED BY: *[Signature]* 1.2.14 5:30p
 DATE/TIME DELIVERED BY: *[Signature]* 010214 1730
 SPECIAL INSTRUCTIONS/COMMENTS: *[Blank]*

RECEIPT: Total # of Containers **2**
 Turnaround Time Request: Standard 5 Business Days
 2 Business Day Rush
 Next Business Day Rush
 Same Day Rush (auth req.)
 Other _____
 STATE PROGRAM (if any): _____
 E-mail? Y/N: _____ Fax? Y/N: _____
 DATA PACKAGE: I II III IV

ANALYSIS REQUESTED: **ERK FAMILIST**

SHIPMENT METHOD: **GREYHOUND**
 OUT: / / VIA: _____
 IN: **CLIENT** / / FedEx UPS MAIL COURIER
 OTHER: _____

RESERVATIVE CODES: H+1 = Hydrochloric acid + ice I = Ice only N = Nitric acid S+1 = Sulfuric acid + ice SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water
 MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil S/M+1 = Sodium Bisulfate/Methanol + ice S/M+1 = Sulfuric acid + ice
 RESERVATIVE CODES: H+1 = Hydrochloric acid + ice I = Ice only N = Nitric acid S+1 = Sulfuric acid + ice SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water

STATE PROGRAM (if any): _____
 E-mail? Y/N: _____ Fax? Y/N: _____
 DATA PACKAGE: I II III IV

Analytical Results

for

Arcadis

Date: 6-Jan-14

Workorder: 1401061

Client Reference: Lafarge SVE System

Analyte	Concentration					Limit of Detection (ug)	Qual	Date Analyzed /Analyst	Test Method
	Total (ug)	Front (ug)	Back (ug)	(mg/m3)	(ppm)				
Client ID: SVE-GAC.INF-010214-1645	Lab ID: 1401061-001A	Date Sampled: 1/2/2014	Media: Tedlar Bag	Air Vol.(L): 1					
1,1,1-Trichloroethane	<10	<10	<10	<10	<1.8	10	1/3/2014	RUF	EPA18
1,1-Dichloroethene	<10	<10	<10	<10	<2.5	10	1/3/2014	RUF	EPA18
2-Butanone	<10	<10	<10	<10	<3.4	10	1/3/2014	RUF	EPA18
4-Methyl-2-pentanone	<10	<10	<10	<10	<2.4	10	1/3/2014	RUF	EPA18
Acetone	<10	<10	<10	<10	<4.2	10	1/3/2014	RUF	EPA18
Benzene	<10	<10	<10	<10	<3.1	10	1/3/2014	RUF	EPA18
Carbon tetrachloride	<10	<10	<10	<10	<1.6	10	1/3/2014	RUF	EPA18
Chloroform	<10	<10	<10	<10	<2.0	10	1/3/2014	RUF	EPA18
cis-1,2-Dichloroethene	37	37.481	<10	37	9.4	10	1/3/2014	RUF	EPA18
Diethyl ether	<10	<10	<10	<10	<3.3	10	1/3/2014	RUF	EPA18
Ethylbenzene	66	66.055	<10	66	15	10	1/3/2014	RUF	EPA18
Freon 141B	<10	<10	<10	<10	<2.1	10	1/3/2014	RUF	EPA18
m,p-Xylene	210	213.16	<20	210	49	20	1/3/2014	RUF	EPA18
Methyl tert-butyl ether	<10	<10	<10	<10	<2.8	10	1/3/2014	RUF	EPA18
Methylene chloride	<10	<10	<10	<10	<2.9	10	1/3/2014	RUF	EPA18
n-Heptane	460	460.162	<10	460	110	10	1/3/2014	RUF	EPA18
n-Hexane	1100	1131.84	<10	1100	320	10	1/3/2014	RUF	EPA18
Naphthalene	<10	<10	<10	<10	<1.9	10	1/3/2014	RUF	EPA18
o-Xylene	37	36.705	<10	37	8.4	10	1/3/2014	RUF	EPA18
Tetrachloroethene	<10	<10	<10	<10	<1.5	10	1/3/2014	RUF	EPA18
Toluene	1200	1229.95	<10	1200	330	10	1/3/2014	RUF	EPA18
trans-1,2-Dichloroethene	<10	<10	<10	<10	<2.5	10	1/3/2014	RUF	EPA18
Trichloroethene	310	305.199	<10	310	57	10	1/3/2014	RUF	EPA18
TRPH (Based on Benzene)	6500	6511.08	<100	6500	2000	100	1/3/2014	RUF	EPA18
Vinyl chloride	<10	<10	<10	<10	<3.9	10	1/3/2014	RUF	EPA18

Client ID: SVE-GAC-EFF-010214 1700	Lab ID: 1401061-002A	Date Sampled: 1/2/2014	Media: Tedlar Bag	Air Vol.(L): 1					
1,1,1-Trichloroethane	<10	<10	<10	<10	<1.8	10	1/3/2014	RUF	EPA18
1,1-Dichloroethene	<10	<10	<10	<10	<2.5	10	1/3/2014	RUF	EPA18
2-Butanone	<10	<10	<10	<10	<3.4	10	1/3/2014	RUF	EPA18
4-Methyl-2-pentanone	<10	<10	<10	<10	<2.4	10	1/3/2014	RUF	EPA18
Acetone	<10	<10	<10	<10	<4.2	10	1/3/2014	RUF	EPA18
Benzene	<10	<10	<10	<10	<3.1	10	1/3/2014	RUF	EPA18
Carbon tetrachloride	<10	<10	<10	<10	<1.6	10	1/3/2014	RUF	EPA18
Chloroform	<10	<10	<10	<10	<2.0	10	1/3/2014	RUF	EPA18
cis-1,2-Dichloroethene	<10	<10	<10	<10	<2.5	10	1/3/2014	RUF	EPA18
Diethyl ether	<10	<10	<10	<10	<3.3	10	1/3/2014	RUF	EPA18
Ethylbenzene	<10	<10	<10	<10	<2.3	10	1/3/2014	RUF	EPA18
Freon 141B	<10	<10	<10	<10	<2.1	10	1/3/2014	RUF	EPA18

Qualifiers:

< Less than the indicated limit of detection (LOD)

H Holding time for preparation or analysis

B Analyte detected in the associated Method Blank

(a) Analysis indicates possible breakthrough; back section result is greater than

10 % of the front section result.

**Analytical Results
for**

Arcadis

Date: 6-Jan-14

Workorder: 1401061

Client Reference: Lafarge SVE System

Analyte	Concentration					Limit of Detection (ug)	Qual	Date Analyzed /Analyst	Test Method
	Total (ug)	Front (ug)	Back (ug)	(mg/m3)	(ppm)				
m,p-Xylene	<20	<20	<20	<20	<4.6	20		1/3/2014 RUF	EPA18
Methyl tert-butyl ether	<10	<10	<10	<10	<2.8	10		1/3/2014 RUF	EPA18
Methylene chloride	<10	<10	<10	<10	<2.9	10		1/3/2014 RUF	EPA18
n-Heptane	<10	<10	<10	<10	<2.4	10		1/3/2014 RUF	EPA18
n-Hexane	<10	<10	<10	<10	<2.8	10		1/3/2014 RUF	EPA18
Naphthalene	<10	<10	<10	<10	<1.9	10		1/3/2014 RUF	EPA18
o-Xylene	<10	<10	<10	<10	<2.3	10		1/3/2014 RUF	EPA18
Tetrachloroethene	<10	<10	<10	<10	<1.5	10		1/3/2014 RUF	EPA18
Toluene	<10	<10	<10	<10	<2.6	10		1/3/2014 RUF	EPA18
trans-1,2-Dichloroethene	<10	<10	<10	<10	<2.5	10		1/3/2014 RUF	EPA18
Trichloroethene	<10	<10	<10	<10	<1.9	10		1/3/2014 RUF	EPA18
TRPH (Based on Benzene)	<100	<100	<100	<100	<31	100		1/3/2014 RUF	EPA18
Vinyl chloride	<10	<10	<10	<10	<3.9	10		1/3/2014 RUF	EPA18

Qualifiers:

< Less than the indicated limit of detection (LOD)

H Holding time for preparation or analysis

B Analyte detected in the associated Method Blank

(a) Analysis indicates possible breakthrough; back section result is greater than

10 % of the front section result.

Sample/Cooler Receipt Checklist

Client Arceadis

Work Order Number 1401001

Checklist completed by [Signature] Date 1.2.14

Carrier name: FedEx UPS Courier Client US Mail Other

Shipping container/cooler in good condition? Yes No Not Present

Custody seals intact on shipping container/cooler? Yes No Not Present

Custody seals intact on sample bottles? Yes No Not Present

Container/Temp Blank temperature in compliance? (4°C±2)* Yes No

Cooler #1 Amh:cnv Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present? Yes No

Chain of custody signed when relinquished and received? Yes No

Chain of custody agrees with sample labels? Yes No

Samples in proper container/bottle? Yes No

Sample containers intact? Yes No

Sufficient sample volume for indicated test? Yes No

All samples received within holding time? Yes No

Was TAT marked on the COC? Yes No

Proceed with Standard TAT as per project history? Yes No Not Applicable

Water - VOA vials have zero headspace? No VOA vials submitted Yes No

Water - pH acceptable upon receipt? Yes No Not Applicable

Adjusted? _____ Checked by _____

Sample Condition: Good Other(Explain) _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes No

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

Client: Arcadis
Project: Lafarge SVE System
Lab Order: 1401061

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1401061-001A	SVE-GAC.INF-010214-1645	1/2/2014 4:45:00PM	Air	Aromatic Volatiles in Air		01/03/2014	01/03/2014
1401061-001A	SVE-GAC.INF-010214-1645	1/2/2014 4:45:00PM	Air	Chlorinated Volatiles in Air		01/03/2014	01/03/2014
1401061-001A	SVE-GAC.INF-010214-1645	1/2/2014 4:45:00PM	Air	Volatile Hydrocarbons in Air		01/03/2014	01/03/2014
1401061-002A	SVE-GAC-EFF-010214 1700	1/2/2014 5:00:00PM	Air	Aromatic Volatiles in Air		01/03/2014	01/03/2014
1401061-002A	SVE-GAC-EFF-010214 1700	1/2/2014 5:00:00PM	Air	Chlorinated Volatiles in Air		01/03/2014	01/03/2014
1401061-002A	SVE-GAC-EFF-010214 1700	1/2/2014 5:00:00PM	Air	Volatile Hydrocarbons in Air		01/03/2014	01/03/2014

Client: Arcadis
Project Name: Lafarge SVE System
Workorder: 1401061

ANALYTICAL QC SUMMARY REPORT

BatchID: 185569

Sample ID: MB-185569	Client ID:	Units: ug, Total	Prep Date: 01/03/2014	Run No: 259083							
SampleType: MBLK	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 185569	Analysis Date: 01/03/2014	Seq No: 5445674							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane
 1,1-Dichloroethene
 Carbon tetrachloride
 Chloroform
 cis-1,2-Dichloroethene
 Freon 141B
 Methylene chloride
 Tetrachloroethene
 trans-1,2-Dichloroethene
 Trichloroethene
 Vinyl chloride

BRL
 BRL

10
 10
 10
 10
 10
 10
 10
 10
 10
 10
 10

Sample ID: MB-185569	Client ID:	Units: ug, Total	Prep Date: 01/03/2014	Run No: 259084							
SampleType: MBLK	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 185569	Analysis Date: 01/03/2014	Seq No: 5445797							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2-Butanone
 4-Methyl-2-pentanone
 Acetone
 Diethyl ether
 n-Heptane
 n-Hexane

BRL
 BRL
 BRL
 BRL
 BRL
 BRL

10
 10
 10
 10
 10
 10

Sample ID: MB-185569	Client ID:	Units: ug, Total	Prep Date: 01/03/2014	Run No: 259085							
SampleType: MBLK	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 185569	Analysis Date: 01/03/2014	Seq No: 5445848							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene

BRL
 10

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Arcadis
Project Name: Lafarge SVE System
Workorder: 1401061

ANALYTICAL QC SUMMARY REPORT

BatchID: 185569

Sample ID: MB-185569	Client ID:	Units: ug, Total	Prep Date: 01/03/2014	Run No: 259085							
SampleType: MBLK	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 185569	Analysis Date: 01/03/2014	Seq No: 5445848							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethylbenzene
m,p-Xylene
Methyl tert-butyl ether
Naphthalene
o-Xylene
Toluene
TRPH (Based on Benzene)

BRL
BRL
BRL
BRL
BRL
BRL
BRL

10
20
10
10
10
10
100

Sample ID: LCS-185569	Client ID:	Units: ug, Total	Prep Date: 01/03/2014	Run No: 259083							
SampleType: LCS	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 185569	Analysis Date: 01/03/2014	Seq No: 5445676							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane
Carbon tetrachloride
Chloroform
Methylene chloride
Tetrachloroethene
Trichloroethene

107.0
110.0
104.3
104.4
107.2
110.1

10
10
10
10
10
10

100.0
100.0
100.0
100.0
100.0
100.0

107
110
104
104
107
110

85
85
83.2
85
85
85

120
126
120
126
118
122

Sample ID: LCS-185569	Client ID:	Units: ug, Total	Prep Date: 01/03/2014	Run No: 259084							
SampleType: LCS	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 185569	Analysis Date: 01/03/2014	Seq No: 5445799							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2-Butanone
4-Methyl-2-pentanone
Acetone
Diethyl ether
n-Heptane

93.22
102.1
79.76
97.25
108.2

10
10
10
10
10

100.0
100.0
100.0
100.0
100.0

93.2
102
79.8
97.3
108

74.2
81.5
70.1
79.9
87

120
120
120
120
121

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
BRL	Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S Spike Recovery outside limits due to matrix	

Client: Arcadis
Project Name: Lafarge SVE System
Workorder: 1401061

ANALYTICAL QC SUMMARY REPORT

BatchID: 185569

Sample ID: LCS-185569	Client ID:	Units: ug, Total	Prep Date: 01/03/2014	Run No: 259084							
SampleType: LCS	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 185569	Analysis Date: 01/03/2014	Seq No: 5445799							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

n-Hexane 108.7 10 100.0 109 87.1 123

Sample ID: LCS-185569	Client ID:	Units: ug, Total	Prep Date: 01/03/2014	Run No: 259085							
SampleType: LCS	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 185569	Analysis Date: 01/03/2014	Seq No: 5445849							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene 107.9 10 100.0 108 76 123
 Ethylbenzene 110.6 10 100.0 111 80.2 124
 m,p-Xylene 218.8 20 200.0 109 78 123
 Methyl tert-butyl ether 86.15 10 100.0 86.2 71 120
 Naphthalene 45.63 10 100.0 45.6 34.4 100
 o-Xylene 102.3 10 100.0 102 78 118
 Toluene 107.9 10 100.0 108 78.3 121

Sample ID: LCS-185569-2	Client ID:	Units: ug, Total	Prep Date: 01/03/2014	Run No: 259083							
SampleType: LCS	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 185569	Analysis Date: 01/03/2014	Seq No: 5445679							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene 97.69 10 100.0 97.7 83.6 119
 cis-1,2-Dichloroethene 103.7 10 100.0 104 84.2 123
 trans-1,2-Dichloroethene 99.21 10 100.0 99.2 85 120

Sample ID: LCS-185569-3	Client ID:	Units: ug, Total	Prep Date: 01/03/2014	Run No: 259083							
SampleType: LCS	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 185569	Analysis Date: 01/06/2014	Seq No: 5445696							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Vinyl chloride 19.88 10 25.00 79.5 60.4 121

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Arcadis
Project Name: Lafarge SVE System
Workorder: 1401061

ANALYTICAL QC SUMMARY REPORT

BatchID: 185569

Sample ID: LCSD-185569	Client ID:	Units: ug, Total	Prep Date: 01/03/2014	Run No: 259083							
SampleType: LCSD	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 185569	Analysis Date: 01/03/2014	Seq No: 5445677							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	107.1	10	100.0		107	85	120	107.0	0.054	15	
Carbon tetrachloride	109.8	10	100.0		110	85	126	110.0	0.170	15	
Chloroform	104.0	10	100.0		104	83.2	120	104.3	0.245	15	
Methylene chloride	104.3	10	100.0		104	85	126	104.4	0.007	15	
Tetrachloroethene	107.8	10	100.0		108	85	118	107.2	0.532	15	
Trichloroethene	110.2	10	100.0		110	85	122	110.1	0.076	15	

Sample ID: LCSD-185569	Client ID:	Units: ug, Total	Prep Date: 01/03/2014	Run No: 259084							
SampleType: LCSD	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 185569	Analysis Date: 01/03/2014	Seq No: 5445801							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2-Butanone	92.98	10	100.0		93.0	74.2	120	93.22	0.264	15	
4-Methyl-2-pentanone	101.9	10	100.0		102	81.5	120	102.1	0.197	15	
Acetone	78.86	10	100.0		78.9	70.1	120	79.76	1.13	15	
Diethyl ether	96.97	10	100.0		97.0	79.9	120	97.25	0.293	15	
n-Heptane	108.3	10	100.0		108	87	121	108.2	0.055	15	
n-Hexane	108.8	10	100.0		109	87.1	123	108.7	0.086	15	

Sample ID: LCSD-185569	Client ID:	Units: ug, Total	Prep Date: 01/03/2014	Run No: 259085							
SampleType: LCSD	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 185569	Analysis Date: 01/03/2014	Seq No: 5445850							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene	108.0	10	100.0		108	76	123	107.9	0.056	15	
Ethylbenzene	110.7	10	100.0		111	80.2	124	110.6	0.077	15	
m,p-Xylene	218.9	20	200.0		109	78	123	218.8	0.058	15	
Methyl tert-butyl ether	86.27	10	100.0		86.3	71	120	86.15	0.135	15	
Naphthalene	42.52	10	100.0		42.5	34.4	100	45.63	7.05	15	
o-Xylene	102.3	10	100.0		102	78	118	102.3	0.009	15	

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Arcadis
Project Name: Lafarge SVE System
Workorder: 1401061

ANALYTICAL QC SUMMARY REPORT

BatchID: 185569

Sample ID: LCSD-185569	Client ID:	Units: ug, Total	Prep Date: 01/03/2014	Run No: 259085							
SampleType: LCSD	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 185569	Analysis Date: 01/03/2014	Seq No: 5445850							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Toluene	107.9	10	100.0		108	78.3	121	107.9	0.035	15	

Sample ID: LCSD-185569-2	Client ID:	Units: ug, Total	Prep Date: 01/03/2014	Run No: 259083							
SampleType: LCSD	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 185569	Analysis Date: 01/03/2014	Seq No: 5445680							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	97.24	10	100.0		97.2	83.6	119	97.69	0.456	15	
cis-1,2-Dichloroethene	103.3	10	100.0		103	84.2	123	103.7	0.449	15	
trans-1,2-Dichloroethene	98.97	10	100.0		99.0	85	120	99.21	0.246	15	

Sample ID: LCSD-185569-3	Client ID:	Units: ug, Total	Prep Date: 01/03/2014	Run No: 259083							
SampleType: LCSD	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 185569	Analysis Date: 01/06/2014	Seq No: 5445699							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Vinyl chloride	19.06	10	25.00		76.3	60.4	121	19.88	4.17	19.2	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		



January 14, 2014

Peter Cornais
Arcadis
2081 Vista Parkway, Suite 200
West Palm Beach FL 33411

TEL: (850) 445-0829
FAX:

RE: Lafarge Air Sparge System

Dear Peter Cornais:

Order No: 1401642

Analytical Environmental Services, Inc. received 2 samples on 1/10/2014 4:17:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/13-06/30/14.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/15.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Chantelle Kanhai
Project Manager

CHAIN OF CUSTODY

Work Order: 1401642

Date: 1-10-2014 Page 1 of 1

ANALYTICAL ENVIRONMENTAL SERVICES, INC
 3785 Presidential Parkway, Atlanta GA 30340-3704
 AES TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

COMPANY: Arcadis ADDRESS: 1000 Cobb Place Blvd Building 500A Kennesaw, GA 30144 PHONE: 770 428 7009 FAX: 770 428 4004 SAMPLED BY: Ivan Jenkins		ANALYSIS REQUESTED PRESERVATION (See codes)		REMARKS Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.		No # of Containers	
#	SAMPLE ID	DATE	TIME	Grab	Composite	Matrix (See codes)	REMARKS
1	SVE-GAC-INT-011014-1615	1-10-14	1615	-	-	Air	2 copy fern
2	SVE-GAC-EFF-011014-1620	1-10-14	1620	-	-	Air	5 standard fern
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
RELINQUISHED BY: Ivan Jenkins		DATE/TIME RECEIVED BY: 1-10-2014 1617		DATE/TIME: 1-10-14 1617		PROJECT INFORMATION PROJECT NAME: Latorge Air Spange Air System PROJECT #: HT214516.0002 SITE ADDRESS: 2625 N. Martin St East Point GA SEND REPORT TO: Pete.carnise@Arcadis-US.COM INVOICE TO: (IF DIFFERENT FROM ABOVE) QUOTE #:	
SPECIAL INSTRUCTIONS/COMMENTS:		SHIPMENT METHOD OUT: / / VIA: IN: CLIENT FedEx UPS MAIL COURIER GREYHOUND OTHER:		RECEIPT Total # of Containers: 2 Turnaround Time Request: <input checked="" type="radio"/> Standard 5 Business Days <input checked="" type="radio"/> 2 Business Day Rush <input type="radio"/> Next Business Day Rush <input type="radio"/> Same Day Rush (auth req.) <input type="radio"/> Other		STATE PROGRAM (if any): E-mail? Y/N; Fax? Y/N DATA PACKAGE: I II III IV	

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES.
 SAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMPLETION UNLESS OTHER ARRANGEMENTS ARE MADE.
 MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water
 PRESERVATIVE CODES: H+1 = Hydrochloric acid + ice I = Ice only N = Nitric acid S+1 = Sulfuric acid + ice S/M+1 = Sodium Bisulfate/Methanol + ice O = None NA = None
 White Copy - Original; Yellow Copy - Client

Analytical Results

for

Arcadis

Date: 15-Jan-14

Workorder: 1401642

Client Reference: Lafarge Air Sparge System

Analyte	Concentration					Limit of Detection (ug)	Qual	Date Analyzed /Analyst	Test Method
	Total (ug)	Front (ug)	Back (ug)	(mg/m3)	(ppm)				
Client ID: SVE-GAC-INF-011014_1615	Lab ID: 1401642-001A	Date Sampled: 1/10/2014	Media: Tedlar Bag	Air Vol.(L): 1					
1,1,1-Trichloroethane	<10	<10	<10	<10	<1.8	10	1/13/2014	RUF	EPA18
1,1-Dichloroethene	<10	<10	<10	<10	<2.5	10	1/13/2014	RUF	EPA18
2-Butanone	<10	<10	<10	<10	<3.4	10	1/13/2014	RUF	EPA18
4-Methyl-2-pentanone	<10	<10	<10	<10	<2.4	10	1/13/2014	RUF	EPA18
Acetone	<10	<10	<10	<10	<4.2	10	1/13/2014	RUF	EPA18
Benzene	<10	<10	<10	<10	<3.1	10	1/13/2014	RUF	EPA18
Carbon tetrachloride	<10	<10	<10	<10	<1.6	10	1/13/2014	RUF	EPA18
Chloroform	<10	<10	<10	<10	<2.0	10	1/13/2014	RUF	EPA18
cis-1,2-Dichloroethene	24	23.835	<10	24	6.0	10	1/13/2014	RUF	EPA18
Diethyl ether	<10	<10	<10	<10	<3.3	10	1/13/2014	RUF	EPA18
Ethylbenzene	50	50.147	<10	50	12	10	1/13/2014	RUF	EPA18
Freon 141B	<10	<10	<10	<10	<2.1	10	1/13/2014	RUF	EPA18
m,p-Xylene	160	156.573	<20	160	36	20	1/13/2014	RUF	EPA18
Methyl tert-butyl ether	<10	<10	<10	<10	<2.8	10	1/13/2014	RUF	EPA18
Methylene chloride	<10	<10	<10	<10	<2.9	10	1/13/2014	RUF	EPA18
n-Heptane	360	358.421	<10	360	88	10	1/13/2014	RUF	EPA18
n-Hexane	1000	1031.42	<10	1000	290	10	1/13/2014	RUF	EPA18
Naphthalene	<10	<10	<10	<10	<1.9	10	1/13/2014	RUF	EPA18
o-Xylene	26	26.35	<10	26	6.1	10	1/13/2014	RUF	EPA18
Tetrachloroethene	<10	<10	<10	<10	<1.5	10	1/13/2014	RUF	EPA18
Toluene	820	822.096	<10	820	220	10	1/13/2014	RUF	EPA18
trans-1,2-Dichloroethene	<10	<10	<10	<10	<2.5	10	1/13/2014	RUF	EPA18
Trichloroethene	180	182.129	<10	180	34	10	1/13/2014	RUF	EPA18
TRPH (Based on Benzene)	5200	5214.42	<100	5200	1600	100	1/13/2014	RUF	EPA18
Vinyl chloride	<10	<10	<10	<10	<3.9	10	1/13/2014	RUF	EPA18

Client ID: SVE-GAC-EFF-011014_1620	Lab ID: 1401642-002A	Date Sampled: 1/10/2014	Media: Tedlar Bag	Air Vol.(L): 1					
1,1,1-Trichloroethane	<10	<10	<10	<10	<1.8	10	1/13/2014	RUF	EPA18
1,1-Dichloroethene	<10	<10	<10	<10	<2.5	10	1/13/2014	RUF	EPA18
2-Butanone	<10	<10	<10	<10	<3.4	10	1/13/2014	RUF	EPA18
4-Methyl-2-pentanone	<10	<10	<10	<10	<2.4	10	1/13/2014	RUF	EPA18
Acetone	<10	<10	<10	<10	<4.2	10	1/13/2014	RUF	EPA18
Benzene	<10	<10	<10	<10	<3.1	10	1/13/2014	RUF	EPA18
Carbon tetrachloride	<10	<10	<10	<10	<1.6	10	1/13/2014	RUF	EPA18
Chloroform	<10	<10	<10	<10	<2.0	10	1/13/2014	RUF	EPA18
cis-1,2-Dichloroethene	<10	<10	<10	<10	<2.5	10	1/13/2014	RUF	EPA18
Diethyl ether	<10	<10	<10	<10	<3.3	10	1/13/2014	RUF	EPA18
Ethylbenzene	<10	<10	<10	<10	<2.3	10	1/13/2014	RUF	EPA18
Freon 141B	<10	<10	<10	<10	<2.1	10	1/13/2014	RUF	EPA18

Qualifiers:

< Less than the indicated limit of detection (LOD)

H Holding time for preparation or analysis

B Analyte detected in the associated Method Blank

(a) Analysis indicates possible breakthrough; back section result is greater than

10 % of the front section result.

**Analytical Results
for**

Arcadis

Date: 15-Jan-14

Workorder: 1401642

Client Reference: Lafarge Air Sparge System

Analyte	Concentration					Limit of Detection (ug)	Qual	Date Analyzed	/Analyst	Test Method
	Total (ug)	Front (ug)	Back (ug)	(mg/m3)	(ppm)					
m,p-Xylene	<20	<20	<20	<20	<4.6	20		1/13/2014	RUF	EPA18
Methyl tert-butyl ether	<10	<10	<10	<10	<2.8	10		1/13/2014	RUF	EPA18
Methylene chloride	<10	<10	<10	<10	<2.9	10		1/13/2014	RUF	EPA18
n-Heptane	<10	<10	<10	<10	<2.4	10		1/13/2014	RUF	EPA18
n-Hexane	<10	<10	<10	<10	<2.8	10		1/13/2014	RUF	EPA18
Naphthalene	<10	<10	<10	<10	<1.9	10		1/13/2014	RUF	EPA18
o-Xylene	<10	<10	<10	<10	<2.3	10		1/13/2014	RUF	EPA18
Tetrachloroethene	<10	<10	<10	<10	<1.5	10		1/13/2014	RUF	EPA18
Toluene	<10	<10	<10	<10	<2.6	10		1/13/2014	RUF	EPA18
trans-1,2-Dichloroethene	<10	<10	<10	<10	<2.5	10		1/13/2014	RUF	EPA18
Trichloroethene	<10	<10	<10	<10	<1.9	10		1/13/2014	RUF	EPA18
TRPH (Based on Benzene)	<100	<100	<100	<100	<31	100		1/13/2014	RUF	EPA18
Vinyl chloride	<10	<10	<10	<10	<3.9	10		1/13/2014	RUF	EPA18

Qualifiers:

< Less than the indicated limit of detection (LOD)

H Holding time for preparation or analysis

B Analyte detected in the associated Method Blank

(a) Analysis indicates possible breakthrough; back section result is greater than

10 % of the front section result.

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Arcadis

Work Order Number 1401642

Checklist completed by [Signature] Date 1.10.14

Carrier name: FedEx ___ UPS ___ Courier ___ Client US Mail ___ Other _____

Shipping container/cooler in good condition? Yes No ___ Not Present ___

Custody seals intact on shipping container/cooler? Yes ___ No ___ Not Present

Custody seals intact on sample bottles? Yes No ___ Not Present ___

Container/Temp Blank temperature in compliance? (4°C±2)* Yes No ___

Cooler #1 Ambu ✓ Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present? Yes No ___

Chain of custody signed when relinquished and received? Yes No ___

Chain of custody agrees with sample labels? Yes No ___

Samples in proper container/bottle? Yes No ___

Sample containers intact? Yes No ___

Sufficient sample volume for indicated test? Yes No ___

All samples received within holding time? Yes No ___

Was TAT marked on the COC? Yes No ___

Proceed with Standard TAT as per project history? Yes ___ No ___ Not Applicable

Water - VOA vials have zero headspace? No VOA vials submitted Yes ___ No ___

Water - pH acceptable upon receipt? Yes ___ No ___ Not Applicable

Adjusted? _____ Checked by _____

Sample Condition: Good Other(Explain) _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes ___ No

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

Client: Arcadis
Project: Lafarge Air Sparge System
Lab Order: 1401642

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1401642-001A	SVE-GAC-INF-011014_1615	1/10/2014 4:15:00PM	Air	Aromatic Volatiles in Air		01/13/2014	01/13/2014
1401642-001A	SVE-GAC-INF-011014_1615	1/10/2014 4:15:00PM	Air	Chlorinated Volatiles in Air		01/13/2014	01/13/2014
1401642-001A	SVE-GAC-INF-011014_1615	1/10/2014 4:15:00PM	Air	Volatile Hydrocarbons in Air		01/13/2014	01/13/2014
1401642-002A	SVE-GAC-EFF-011014_1620	1/10/2014 4:20:00PM	Air	Aromatic Volatiles in Air		01/13/2014	01/13/2014
1401642-002A	SVE-GAC-EFF-011014_1620	1/10/2014 4:20:00PM	Air	Chlorinated Volatiles in Air		01/13/2014	01/13/2014
1401642-002A	SVE-GAC-EFF-011014_1620	1/10/2014 4:20:00PM	Air	Volatile Hydrocarbons in Air		01/13/2014	01/13/2014

Client: Arcadis
Project Name: Lafarge Air Sparge System
Workorder: 1401642

ANALYTICAL QC SUMMARY REPORT

BatchID: 185835

Sample ID: MB-185835	Client ID:	Units: ug, Total	Prep Date: 01/13/2014	Run No: 259487							
SampleType: MBLK	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 185835	Analysis Date: 01/13/2014	Seq No: 5454303							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane
 1,1-Dichloroethene
 Carbon tetrachloride
 Chloroform
 cis-1,2-Dichloroethene
 Freon 141B
 Methylene chloride
 Tetrachloroethene
 trans-1,2-Dichloroethene
 Trichloroethene
 Vinyl chloride

BRL
 BRL

10
 10
 10
 10
 10
 10
 10
 10
 10
 10
 10

Sample ID: MB-185835	Client ID:	Units: ug, Total	Prep Date: 01/13/2014	Run No: 259488							
SampleType: MBLK	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 185835	Analysis Date: 01/13/2014	Seq No: 5454352							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2-Butanone
 4-Methyl-2-pentanone
 Acetone
 Diethyl ether
 n-Heptane
 n-Hexane

BRL
 BRL
 BRL
 BRL
 BRL
 BRL

10
 10
 10
 10
 10
 10

Sample ID: MB-185835	Client ID:	Units: ug, Total	Prep Date: 01/13/2014	Run No: 259489							
SampleType: MBLK	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 185835	Analysis Date: 01/13/2014	Seq No: 5454377							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene

BRL
 10

Qualifiers:

- | | | |
|--|---|--|
| > Greater than Result value | < Less than Result value | B Analyte detected in the associated method blank |
| BRL Below reporting limit | E Estimated (value above quantitation range) | H Holding times for preparation or analysis exceeded |
| J Estimated value detected below Reporting Limit | N Analyte not NELAC certified | R RPD outside limits due to matrix |
| Rpt Lim Reporting Limit | S Spike Recovery outside limits due to matrix | |

Client: Arcadis
Project Name: Lafarge Air Sparge System
Workorder: 1401642

ANALYTICAL QC SUMMARY REPORT

BatchID: 185835

Sample ID: MB-185835	Client ID:	Units: ug, Total	Prep Date: 01/13/2014	Run No: 259489							
SampleType: MBLK	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 185835	Analysis Date: 01/13/2014	Seq No: 5454377							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethylbenzene
m,p-Xylene
Methyl tert-butyl ether
Naphthalene
o-Xylene
Toluene
TRPH (Based on Benzene)

BRL
BRL
BRL
BRL
BRL
BRL
BRL

10
20
10
10
10
10
100

Sample ID: LCS-185835	Client ID:	Units: ug, Total	Prep Date: 01/13/2014	Run No: 259487							
SampleType: LCS	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 185835	Analysis Date: 01/13/2014	Seq No: 5454306							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane
Carbon tetrachloride
Chloroform
Methylene chloride
Tetrachloroethene
Trichloroethene

105.3
108.0
103.6
107.2
104.3
107.1

10
10
10
10
10
10

100.0
100.0
100.0
100.0
100.0
100.0

105
108
104
107
104
107

85
85
83.2
85
85
85

120
126
120
126
118
122

Sample ID: LCS-185835	Client ID:	Units: ug, Total	Prep Date: 01/13/2014	Run No: 259488							
SampleType: LCS	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 185835	Analysis Date: 01/13/2014	Seq No: 5454354							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2-Butanone
4-Methyl-2-pentanone
Acetone
Diethyl ether
n-Heptane

97.72
102.2
90.78
104.3
106.2

10
10
10
10
10

100.0
100.0
100.0
100.0
100.0

97.7
102
90.8
104
106

74.2
81.5
70.1
79.9
87

120
120
120
120
121

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
BRL	Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S Spike Recovery outside limits due to matrix	

Client: Arcadis
Project Name: Lafarge Air Sparge System
Workorder: 1401642

ANALYTICAL QC SUMMARY REPORT

BatchID: 185835

Sample ID: LCS-185835	Client ID:	Units: ug, Total	Prep Date: 01/13/2014	Run No: 259488							
SampleType: LCS	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 185835	Analysis Date: 01/13/2014	Seq No: 5454354							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

n-Hexane 107.9 10 100.0 108 87.1 123

Sample ID: LCS-185835	Client ID:	Units: ug, Total	Prep Date: 01/13/2014	Run No: 259489							
SampleType: LCS	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 185835	Analysis Date: 01/13/2014	Seq No: 5454379							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene 106.2 10 100.0 106 76 123
 Ethylbenzene 108.0 10 100.0 108 80.2 124
 m,p-Xylene 212.9 20 200.0 106 78 123
 Methyl tert-butyl ether 87.38 10 100.0 87.4 71 120
 Naphthalene 48.02 10 100.0 48.0 34.4 100
 o-Xylene 101.2 10 100.0 101 78 118
 Toluene 105.4 10 100.0 105 78.3 121

Sample ID: LCS-185835-2	Client ID:	Units: ug, Total	Prep Date: 01/13/2014	Run No: 259487							
SampleType: LCS	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 185835	Analysis Date: 01/13/2014	Seq No: 5454316							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene 103.1 10 100.0 103 83.6 119
 cis-1,2-Dichloroethene 109.6 10 100.0 110 84.2 123
 trans-1,2-Dichloroethene 104.1 10 100.0 104 85 120

Sample ID: LCS-185835-3	Client ID:	Units: ug, Total	Prep Date: 01/13/2014	Run No: 259487							
SampleType: LCS	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 185835	Analysis Date: 01/13/2014	Seq No: 5454311							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Vinyl chloride 26.79 10 25.00 107 60.4 121

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Arcadis
Project Name: Lafarge Air Sparge System
Workorder: 1401642

ANALYTICAL QC SUMMARY REPORT

BatchID: 185835

Sample ID: LCSD-185835	Client ID:	Units: ug, Total	Prep Date: 01/13/2014	Run No: 259487							
SampleType: LCSD	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 185835	Analysis Date: 01/13/2014	Seq No: 5454308							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	106.9	10	100.0		107	85	120	105.3	1.53	15	
Carbon tetrachloride	109.8	10	100.0		110	85	126	108.0	1.64	15	
Chloroform	105.0	10	100.0		105	83.2	120	103.6	1.29	15	
Methylene chloride	109.0	10	100.0		109	85	126	107.2	1.68	15	
Tetrachloroethene	105.0	10	100.0		105	85	118	104.3	0.656	15	
Trichloroethene	109.6	10	100.0		110	85	122	107.1	2.24	15	

Sample ID: LCSD-185835	Client ID:	Units: ug, Total	Prep Date: 01/13/2014	Run No: 259488							
SampleType: LCSD	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 185835	Analysis Date: 01/13/2014	Seq No: 5454356							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2-Butanone	98.79	10	100.0		98.8	74.2	120	97.72	1.08	15	
4-Methyl-2-pentanone	103.2	10	100.0		103	81.5	120	102.2	1.04	15	
Acetone	91.16	10	100.0		91.2	70.1	120	90.78	0.425	15	
Diethyl ether	105.7	10	100.0		106	79.9	120	104.3	1.34	15	
n-Heptane	108.0	10	100.0		108	87	121	106.2	1.65	15	
n-Hexane	110.3	10	100.0		110	87.1	123	107.9	2.18	15	

Sample ID: LCSD-185835	Client ID:	Units: ug, Total	Prep Date: 01/13/2014	Run No: 259489							
SampleType: LCSD	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 185835	Analysis Date: 01/13/2014	Seq No: 5454382							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene	107.8	10	100.0		108	76	123	106.2	1.47	15	
Ethylbenzene	109.1	10	100.0		109	80.2	124	108.0	1.05	15	
m,p-Xylene	214.9	20	200.0		107	78	123	212.9	0.958	15	
Methyl tert-butyl ether	88.80	10	100.0		88.8	71	120	87.38	1.61	15	
Naphthalene	47.64	10	100.0		47.6	34.4	100	48.02	0.794	15	
o-Xylene	101.9	10	100.0		102	78	118	101.2	0.717	15	

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Arcadis
Project Name: Lafarge Air Sparge System
Workorder: 1401642

ANALYTICAL QC SUMMARY REPORT

BatchID: 185835

Sample ID: LCSD-185835	Client ID:	Units: ug, Total	Prep Date: 01/13/2014	Run No: 259489							
SampleType: LCSD	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 185835	Analysis Date: 01/13/2014	Seq No: 5454382							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Toluene	106.7	10	100.0		107	78.3	121	105.4	1.22	15	
---------	-------	----	-------	--	-----	------	-----	-------	------	----	--

Sample ID: LCSD-185835-2	Client ID:	Units: ug, Total	Prep Date: 01/13/2014	Run No: 259487							
SampleType: LCSD	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 185835	Analysis Date: 01/13/2014	Seq No: 5454319							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	103.3	10	100.0		103	83.6	119	103.1	0.169	15	
cis-1,2-Dichloroethene	109.6	10	100.0		110	84.2	123	109.6	0	15	
trans-1,2-Dichloroethene	104.6	10	100.0		105	85	120	104.1	0.417	15	

Sample ID: LCSD-185835-3	Client ID:	Units: ug, Total	Prep Date: 01/13/2014	Run No: 259487							
SampleType: LCSD	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 185835	Analysis Date: 01/13/2014	Seq No: 5454314							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Vinyl chloride	26.62	10	25.00		106	60.4	121	26.79	0.633	19.2	
----------------	-------	----	-------	--	-----	------	-----	-------	-------	------	--

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
BRL	Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S Spike Recovery outside limits due to matrix	



January 21, 2014

Peter Cornais
Arcadis
2081 Vista Parkway, Suite 200
West Palm Beach FL 33411

TEL: (850) 445-0829
FAX:

RE: Lafarge Air Sparge

Dear Peter Cornais:

Order No: 1401C17

Analytical Environmental Services, Inc. received 2 samples on 1/18/2014 10:36:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/13-06/30/14.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/15.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Chantelle Kanhai
Project Manager



ANALYTICAL ENVIRONMENTAL SERVICES, INC

3785 Presidential Parkway, Atlanta GA 30340-3704

AES

TEL: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 140/C17

Date: 1-18-14 Page 1 of 1

COMPANY: <i>Arcadis</i>		ADDRESS: <i>1000 Cobb Place Blvd Building 500 A Kennesaw, GA 30144</i>				ANALYSIS REQUESTED				Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.		
PHONE: <i>770-428-9009</i>		FAX: <i>770-428-4004</i>				PRESERVATION (See codes)				REMARKS		
SAMPLED BY: <i>Ivan Jenkins</i>		SIGNATURE: <i>Ivan Jenkins</i>										
#	SAMPLE ID	SAMPLED		Grab	Composite	Matrix (See codes)	EPA 18-B-111-1st				No # of Containers	
		DATE	TIME									
1	<i>SVE_GAG_INF_011814-0934</i>	<i>1-18-14</i>	<i>09:34</i>	<i>/</i>		<i>Air</i>	<i>1</i>					
2	<i>SVE_GAG_EFF_011814-0939</i>	<i>1-18-14</i>	<i>09:39</i>	<i>/</i>		<i>Air</i>	<i>1</i>					
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												

RELINQUISHED BY 1: <i>Ivan Jenkins</i>		DATE/TIME <i>1-18-14 10:36</i>		RECEIVED BY 1: <i>[Signature]</i>		DATE/TIME <i>1/18/14 10:30</i>	
SPECIAL INSTRUCTIONS/COMMENTS:		SHIPMENT METHOD OUT / / VIA: IN <u>0</u> / / VIA: CLIENT FedEx UPS MAIL COURIER GREYHOUND OTHER _____		PROJECT INFORMATION PROJECT NAME: <i>Lafarge Air Sparge</i> PROJECT #: <i>HT214516.0016</i> SITE ADDRESS: <i>2675 N Martin St East Point, GA</i> SEND REPORT TO: <i>peter.cornais@arcadis-us.com</i> INVOICE TO: (IF DIFFERENT FROM ABOVE)		RECEIPT Total # of Containers: <i>2</i> Turnaround Time Request <input type="radio"/> Standard 5 Business Days <input type="radio"/> 2 Business Day Rush <input checked="" type="radio"/> Next Business Day Rush <input type="radio"/> Same Day Rush (auth req.) <input type="radio"/> Other _____	
SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT. SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.		QUOTE #: _____ PO#: _____		STATE PROGRAM (if any): _____ E-mail? Y/N; Fax? Y/N DATA PACKAGE: I II III IV			

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water
 PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

Analytical Results

for

Arcadis

Date: 21-Jan-14

Workorder: 1401C17

Client Reference: Lafarge Air Sparge

Analyte	Concentration					Limit of Detection (ug)	Qual	Date Analyzed /Analyst	Test Method
	Total (ug)	Front (ug)	Back (ug)	(mg/m3)	(ppm)				
Client ID: SVE_GAC_INF_011814_0934	Lab ID: 1401C17-001A	Date Sampled: 1/18/2014	Media: Tedlar Bag	Air Vol.(L): 1					
1,1,1-Trichloroethane	<10	<10	<10	<10	<1.8	10	1/20/2014	RUF	EPA18
1,1-Dichloroethene	<10	<10	<10	<10	<2.5	10	1/20/2014	RUF	EPA18
2-Butanone	<10	<10	<10	<10	<3.4	10	1/20/2014	RUF	EPA18
4-Methyl-2-pentanone	<10	<10	<10	<10	<2.4	10	1/20/2014	RUF	EPA18
Acetone	<10	<10	<10	<10	<4.2	10	1/20/2014	RUF	EPA18
Benzene	<10	<10	<10	<10	<3.1	10	1/20/2014	RUF	EPA18
Carbon tetrachloride	<10	<10	<10	<10	<1.6	10	1/20/2014	RUF	EPA18
Chloroform	<10	<10	<10	<10	<2.0	10	1/20/2014	RUF	EPA18
cis-1,2-Dichloroethene	10	10.443	<10	10	2.6	10	1/20/2014	RUF	EPA18
Diethyl ether	<10	<10	<10	<10	<3.3	10	1/20/2014	RUF	EPA18
Ethylbenzene	37	37.176	<10	37	8.6	10	1/20/2014	RUF	EPA18
Freon 141B	<10	<10	<10	<10	<2.1	10	1/20/2014	RUF	EPA18
m,p-Xylene	130	126.595	<20	130	29	20	1/20/2014	RUF	EPA18
Methyl tert-butyl ether	<10	<10	<10	<10	<2.8	10	1/20/2014	RUF	EPA18
Methylene chloride	<10	<10	<10	<10	<2.9	10	1/20/2014	RUF	EPA18
n-Heptane	180	184.532	<10	180	45	10	1/20/2014	RUF	EPA18
n-Hexane	620	623.415	<10	620	180	10	1/20/2014	RUF	EPA18
Naphthalene	<10	<10	<10	<10	<1.9	10	1/20/2014	RUF	EPA18
o-Xylene	25	24.561	<10	25	5.7	10	1/20/2014	RUF	EPA18
Tetrachloroethene	<10	<10	<10	<10	<1.5	10	1/20/2014	RUF	EPA18
Toluene	560	556.567	<10	560	150	10	1/20/2014	RUF	EPA18
trans-1,2-Dichloroethene	<10	<10	<10	<10	<2.5	10	1/20/2014	RUF	EPA18
Trichloroethene	81	81.329	<10	81	15	10	1/20/2014	RUF	EPA18
TRPH (Based on Benzene)	3100	3085.47	<100	3100	970	100	1/20/2014	RUF	EPA18
Vinyl chloride	<10	<10	<10	<10	<3.9	10	1/20/2014	RUF	EPA18

Client ID: SVE_GAC_EFF_011814_0939	Lab ID: 1401C17-002A	Date Sampled: 1/18/2014	Media: Tedlar Bag	Air Vol.(L): 1					
1,1,1-Trichloroethane	<10	<10	<10	<10	<1.8	10	1/20/2014	RUF	EPA18
1,1-Dichloroethene	<10	<10	<10	<10	<2.5	10	1/20/2014	RUF	EPA18
2-Butanone	<10	<10	<10	<10	<3.4	10	1/20/2014	RUF	EPA18
4-Methyl-2-pentanone	<10	<10	<10	<10	<2.4	10	1/20/2014	RUF	EPA18
Acetone	<10	<10	<10	<10	<4.2	10	1/20/2014	RUF	EPA18
Benzene	<10	<10	<10	<10	<3.1	10	1/20/2014	RUF	EPA18
Carbon tetrachloride	<10	<10	<10	<10	<1.6	10	1/20/2014	RUF	EPA18
Chloroform	<10	<10	<10	<10	<2.0	10	1/20/2014	RUF	EPA18
cis-1,2-Dichloroethene	<10	<10	<10	<10	<2.5	10	1/20/2014	RUF	EPA18
Diethyl ether	<10	<10	<10	<10	<3.3	10	1/20/2014	RUF	EPA18
Ethylbenzene	<10	<10	<10	<10	<2.3	10	1/20/2014	RUF	EPA18
Freon 141B	<10	<10	<10	<10	<2.1	10	1/20/2014	RUF	EPA18

Qualifiers:

< Less than the indicated limit of detection (LOD)

H Holding time for preparation or analysis

B Analyte detected in the associated Method Blank

(a) Analysis indicates possible breakthrough; back section result is greater than

10 % of the front section result.

**Analytical Results
for**

Arcadis

Date: 21-Jan-14

Workorder: 1401C17

Client Reference: Lafarge Air Sparge

Analyte	Concentration					Limit of Detection (ug)	Qual	Date Analyzed /Analyst	Test Method
	Total (ug)	Front (ug)	Back (ug)	(mg/m3)	(ppm)				
m,p-Xylene	<20	<20	<20	<20	<4.6	20		1/20/2014 RUF	EPA18
Methyl tert-butyl ether	<10	<10	<10	<10	<2.8	10		1/20/2014 RUF	EPA18
Methylene chloride	<10	<10	<10	<10	<2.9	10		1/20/2014 RUF	EPA18
n-Heptane	<10	<10	<10	<10	<2.4	10		1/20/2014 RUF	EPA18
n-Hexane	<10	<10	<10	<10	<2.8	10		1/20/2014 RUF	EPA18
Naphthalene	<10	<10	<10	<10	<1.9	10		1/20/2014 RUF	EPA18
o-Xylene	<10	<10	<10	<10	<2.3	10		1/20/2014 RUF	EPA18
Tetrachloroethene	<10	<10	<10	<10	<1.5	10		1/20/2014 RUF	EPA18
Toluene	<10	<10	<10	<10	<2.6	10		1/20/2014 RUF	EPA18
trans-1,2-Dichloroethene	<10	<10	<10	<10	<2.5	10		1/20/2014 RUF	EPA18
Trichloroethene	<10	<10	<10	<10	<1.9	10		1/20/2014 RUF	EPA18
TRPH (Based on Benzene)	<100	<100	<100	<100	<31	100		1/20/2014 RUF	EPA18
Vinyl chloride	<10	<10	<10	<10	<3.9	10		1/20/2014 RUF	EPA18

Qualifiers:

< Less than the indicated limit of detection (LOD)

H Holding time for preparation or analysis

B Analyte detected in the associated Method Blank

(a) Analysis indicates possible breakthrough; back section result is greater than

10 % of the front section result.

Sample/Cooler Receipt Checklist

Client Arco

Work Order Number 140667

Checklist completed by [Signature] Date 11/8/14

Carrier name: FedEx UPS Courier Client US Mail Other

Shipping container/cooler in good condition? Yes No Not Present

Custody seals intact on shipping container/cooler? Yes No Not Present

Custody seals intact on sample bottles? Yes No Not Present

Container/Temp Blank temperature in compliance? (4°C = 39°F) Yes No

Cooler #1 Am Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler #5 _____ Cooler #6 _____

Chain of custody present? Yes No

Chain of custody signed when relinquished and received? Yes No

Chain of custody agrees with sample labels? Yes No

Samples in proper container/bottle? Yes No

Sample containers intact? Yes No

Sufficient sample volume for indicated test? Yes No

All samples received within holding time? Yes No

Was TAT marked on the COC? Yes No

Proceed with Standard TAT as per project history? Yes No Not Applicable

Water - VOA vials have zero headspace? No VOA vials submitted Yes No

Water - pH acceptable upon receipt? Yes No Not Applicable

Adjusted? _____ Checked by _____

Sample Condition: Good Other(Explain) _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes No

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

Client: Arcadis
Project: Lafarge Air Sparge
Lab Order: 1401C17

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1401C17-001A	SVE_GAC_INF_011814_0934	1/18/2014 9:34:00AM	Air	Aromatic Volatiles in Air		01/18/2014	01/20/2014
1401C17-001A	SVE_GAC_INF_011814_0934	1/18/2014 9:34:00AM	Air	Chlorinated Volatiles in Air		01/18/2014	01/20/2014
1401C17-001A	SVE_GAC_INF_011814_0934	1/18/2014 9:34:00AM	Air	Volatile Hydrocarbons in Air		01/18/2014	01/20/2014
1401C17-002A	SVE_GAC_EFF_011814_0934	1/18/2014 9:39:00AM	Air	Aromatic Volatiles in Air		01/18/2014	01/20/2014
1401C17-002A	SVE_GAC_EFF_011814_0934	1/18/2014 9:39:00AM	Air	Chlorinated Volatiles in Air		01/18/2014	01/20/2014
1401C17-002A	SVE_GAC_EFF_011814_0934	1/18/2014 9:39:00AM	Air	Volatile Hydrocarbons in Air		01/18/2014	01/20/2014

Client: Arcadis
 Project Name: Lafarge Air Sparge
 Workorder: 1401C17

ANALYTICAL QC SUMMARY REPORT

BatchID: 186083

Sample ID: MB-186083	Client ID:	Units: ug, Total	Prep Date: 01/17/2014	Run No: 259894							
SampleType: MBLK	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 186083	Analysis Date: 01/20/2014	Seq No: 5462862							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane
 1,1-Dichloroethene
 Carbon tetrachloride
 Chloroform
 cis-1,2-Dichloroethene
 Freon 141B
 Methylene chloride
 Tetrachloroethene
 trans-1,2-Dichloroethene
 Trichloroethene
 Vinyl chloride

BRL
 BRL

10
 10
 10
 10
 10
 10
 10
 10
 10
 10
 10

Sample ID: MB-186083	Client ID:	Units: ug, Total	Prep Date: 01/17/2014	Run No: 259895							
SampleType: MBLK	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 186083	Analysis Date: 01/20/2014	Seq No: 5462981							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2-Butanone
 4-Methyl-2-pentanone
 Acetone
 Diethyl ether
 n-Heptane
 n-Hexane

BRL
 BRL
 BRL
 BRL
 BRL
 BRL

10
 10
 10
 10
 10
 10

Sample ID: MB-186083	Client ID:	Units: ug, Total	Prep Date: 01/17/2014	Run No: 259917							
SampleType: MBLK	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 186083	Analysis Date: 01/20/2014	Seq No: 5463020							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene

BRL
 10

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Arcadis
 Project Name: Lafarge Air Sparge
 Workorder: 1401C17

ANALYTICAL QC SUMMARY REPORT

BatchID: 186083

Sample ID: MB-186083	Client ID:	Units: ug, Total	Prep Date: 01/17/2014	Run No: 259917							
SampleType: MBLK	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 186083	Analysis Date: 01/20/2014	Seq No: 5463020							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethylbenzene
 m,p-Xylene
 Methyl tert-butyl ether
 Naphthalene
 o-Xylene
 Toluene
 TRPH (Based on Benzene)

BRL
 BRL
 BRL
 BRL
 BRL
 BRL
 BRL

10
 20
 10
 10
 10
 10
 100

Sample ID: LCS-186083	Client ID:	Units: ug, Total	Prep Date: 01/17/2014	Run No: 259894							
SampleType: LCS	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 186083	Analysis Date: 01/20/2014	Seq No: 5462863							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane
 Carbon tetrachloride
 Chloroform
 Methylene chloride
 Tetrachloroethene
 Trichloroethene

107.9
 111.5
 108.2
 108.5
 103.9
 106.7

10
 10
 10
 10
 10
 10

100.0
 100.0
 100.0
 100.0
 100.0
 100.0

108
 112
 108
 109
 104
 107

85
 85
 83.2
 85
 85
 85

120
 126
 120
 126
 118
 122

Sample ID: LCS-186083	Client ID:	Units: ug, Total	Prep Date: 01/17/2014	Run No: 259895							
SampleType: LCS	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 186083	Analysis Date: 01/20/2014	Seq No: 5462982							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2-Butanone
 4-Methyl-2-pentanone
 Acetone
 Diethyl ether
 n-Heptane

99.90
 101.8
 90.85
 104.6
 107.2

10
 10
 10
 10
 10

100.0
 100.0
 100.0
 100.0
 100.0

99.9
 102
 90.8
 105
 107

74.2
 81.5
 70.1
 79.9
 87

120
 120
 120
 120
 121

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
BRL	Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S Spike Recovery outside limits due to matrix	

Client: Arcadis
Project Name: Lafarge Air Sparge
Workorder: 1401C17

ANALYTICAL QC SUMMARY REPORT

BatchID: 186083

Sample ID: LCS-186083	Client ID:	Units: ug, Total	Prep Date: 01/17/2014	Run No: 259895							
SampleType: LCS	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 186083	Analysis Date: 01/20/2014	Seq No: 5462982							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

n-Hexane 110.1 10 100.0 110 87.1 123

Sample ID: LCS-186083	Client ID:	Units: ug, Total	Prep Date: 01/17/2014	Run No: 259917							
SampleType: LCS	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 186083	Analysis Date: 01/20/2014	Seq No: 5463021							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene 107.3 10 100.0 107 76 123
 Ethylbenzene 107.5 10 100.0 108 80.2 124
 m,p-Xylene 211.6 20 200.0 106 78 123
 Methyl tert-butyl ether 88.38 10 100.0 88.4 71 120
 Naphthalene 46.83 10 100.0 46.8 34.4 100
 o-Xylene 99.98 10 100.0 100.0 78 118
 Toluene 105.2 10 100.0 105 78.3 121

Sample ID: LCS-186083-2	Client ID:	Units: ug, Total	Prep Date: 01/17/2014	Run No: 259894							
SampleType: LCS	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 186083	Analysis Date: 01/20/2014	Seq No: 5462870							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene 105.9 10 100.0 106 83.6 119
 cis-1,2-Dichloroethene 114.0 10 100.0 114 84.2 123
 trans-1,2-Dichloroethene 110.9 10 100.0 111 85 120

Sample ID: LCS-186083-3	Client ID:	Units: ug, Total	Prep Date: 01/17/2014	Run No: 259894							
SampleType: LCS	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 186083	Analysis Date: 01/20/2014	Seq No: 5462867							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Vinyl chloride 25.48 10 25.00 102 60.4 121

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Arcadis
Project Name: Lafarge Air Sparge
Workorder: 1401C17

ANALYTICAL QC SUMMARY REPORT

BatchID: 186083

Sample ID: LCSD-186083	Client ID:	Units: ug, Total	Prep Date: 01/17/2014	Run No: 259894							
SampleType: LCSD	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 186083	Analysis Date: 01/20/2014	Seq No: 5462865							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	107.2	10	100.0		107	85	120	107.9	0.644	15	
Carbon tetrachloride	110.6	10	100.0		111	85	126	111.5	0.829	15	
Chloroform	105.5	10	100.0		105	83.2	120	108.2	2.58	15	
Methylene chloride	109.2	10	100.0		109	85	126	108.5	0.561	15	
Tetrachloroethene	106.1	10	100.0		106	85	118	103.9	2.13	15	
Trichloroethene	107.5	10	100.0		107	85	122	106.7	0.750	15	

Sample ID: LCSD-186083	Client ID:	Units: ug, Total	Prep Date: 01/17/2014	Run No: 259895							
SampleType: LCSD	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 186083	Analysis Date: 01/20/2014	Seq No: 5462983							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2-Butanone	98.49	10	100.0		98.5	74.2	120	99.90	1.42	15	
4-Methyl-2-pentanone	102.7	10	100.0		103	81.5	120	101.8	0.921	15	
Acetone	91.65	10	100.0		91.6	70.1	120	90.85	0.878	15	
Diethyl ether	105.5	10	100.0		106	79.9	120	104.6	0.848	15	
n-Heptane	107.5	10	100.0		108	87	121	107.2	0.343	15	
n-Hexane	110.6	10	100.0		111	87.1	123	110.1	0.427	15	

Sample ID: LCSD-186083	Client ID:	Units: ug, Total	Prep Date: 01/17/2014	Run No: 259917							
SampleType: LCSD	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 186083	Analysis Date: 01/20/2014	Seq No: 5463022							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene	107.7	10	100.0		108	76	123	107.3	0.378	15	
Ethylbenzene	108.0	10	100.0		108	80.2	124	107.5	0.410	15	
m,p-Xylene	213.1	20	200.0		107	78	123	211.6	0.722	15	
Methyl tert-butyl ether	89.26	10	100.0		89.3	71	120	88.38	0.996	15	
Naphthalene	48.89	10	100.0		48.9	34.4	100	46.83	4.31	15	
o-Xylene	100.9	10	100.0		101	78	118	99.98	0.893	15	

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Arcadis
Project Name: Lafarge Air Sparge
Workorder: 1401C17

ANALYTICAL QC SUMMARY REPORT

BatchID: 186083

Sample ID: LCSD-186083	Client ID:	Units: ug, Total	Prep Date: 01/17/2014	Run No: 259917							
SampleType: LCSD	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 186083	Analysis Date: 01/20/2014	Seq No: 5463022							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Toluene	106.5	10	100.0		106	78.3	121	105.2	1.26	15	
---------	-------	----	-------	--	-----	------	-----	-------	------	----	--

Sample ID: LCSD-186083-2	Client ID:	Units: ug, Total	Prep Date: 01/17/2014	Run No: 259894							
SampleType: LCSD	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 186083	Analysis Date: 01/20/2014	Seq No: 5462872							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	105.3	10	100.0		105	83.6	119	105.9	0.577	15	
cis-1,2-Dichloroethene	108.8	10	100.0		109	84.2	123	114.0	4.67	15	
trans-1,2-Dichloroethene	110.1	10	100.0		110	85	120	110.9	0.779	15	

Sample ID: LCSD-186083-3	Client ID:	Units: ug, Total	Prep Date: 01/17/2014	Run No: 259894							
SampleType: LCSD	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 186083	Analysis Date: 01/20/2014	Seq No: 5462869							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Vinyl chloride	25.92	10	25.00		104	60.4	121	25.48	1.68	19.2	
----------------	-------	----	-------	--	-----	------	-----	-------	------	------	--

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
BRL	Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S Spike Recovery outside limits due to matrix	



January 30, 2014

Peter Cornais
Arcadis
2081 Vista Parkway, Suite 200
West Palm Beach FL 33411

TEL: (850) 445-0829
FAX:

RE: Lafarge East Point Air Sparge

Dear Peter Cornais:

Order No: 1401111

Analytical Environmental Services, Inc. received 2 samples on 1/24/2014 6:45:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/13-06/30/14.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/15.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Chantelle Kanhai
Project Manager

Analytical Results

for

Arcadis

Date: 30-Jan-14

Workorder: 1401111

Client Reference: Lafarge East Point Air Sparge

Analyte	Concentration					Limit of Detection (ug)	Qual	Date Analyzed /Analyst	Test Method
	Total (ug)	Front (ug)	Back (ug)	(mg/m3)	(ppm)				
Client ID: SVE_GAC_INF_012414_1801	Lab ID: 1401111-001A	Date Sampled: 1/24/2014	Media: Tedlar Bag	Air Vol.(L): 1					
1,1,1-Trichloroethane	<10	<10	<10	<10	<1.8	10	1/28/2014	RUF	EPA18
1,1-Dichloroethene	<10	<10	<10	<10	<2.5	10	1/28/2014	RUF	EPA18
2-Butanone	<10	<10	<10	<10	<3.4	10	1/28/2014	RUF	EPA18
4-Methyl-2-pentanone	<10	<10	<10	<10	<2.4	10	1/28/2014	RUF	EPA18
Acetone	<10	<10	<10	<10	<4.2	10	1/28/2014	RUF	EPA18
Benzene	<10	<10	<10	<10	<3.1	10	1/28/2014	RUF	EPA18
Carbon tetrachloride	<10	<10	<10	<10	<1.6	10	1/28/2014	RUF	EPA18
Chloroform	<10	<10	<10	<10	<2.0	10	1/28/2014	RUF	EPA18
cis-1,2-Dichloroethene	<10	<10	<10	<10	<2.5	10	1/28/2014	RUF	EPA18
Diethyl ether	<10	<10	<10	<10	<3.3	10	1/28/2014	RUF	EPA18
Ethylbenzene	29	28.906	<10	29	6.7	10	1/28/2014	RUF	EPA18
Freon 141B	<10	<10	<10	<10	<2.1	10	1/28/2014	RUF	EPA18
m,p-Xylene	94	93.792	<20	94	22	20	1/28/2014	RUF	EPA18
Methyl tert-butyl ether	<10	<10	<10	<10	<2.8	10	1/28/2014	RUF	EPA18
Methylene chloride	<10	<10	<10	<10	<2.9	10	1/28/2014	RUF	EPA18
n-Heptane	160	163.854	<10	160	40	10	1/28/2014	RUF	EPA18
n-Hexane	540	540.017	<10	540	150	10	1/28/2014	RUF	EPA18
Naphthalene	<10	<10	<10	<10	<1.9	10	1/28/2014	RUF	EPA18
o-Xylene	17	17.32	<10	17	4.0	10	1/28/2014	RUF	EPA18
Tetrachloroethene	<10	<10	<10	<10	<1.5	10	1/28/2014	RUF	EPA18
Toluene	430	427.578	<10	430	110	10	1/28/2014	RUF	EPA18
trans-1,2-Dichloroethene	<10	<10	<10	<10	<2.5	10	1/28/2014	RUF	EPA18
Trichloroethene	57	56.789	<10	57	11	10	1/28/2014	RUF	EPA18
TRPH (Based on Benzene)	2600	2581.75	<100	2600	810	100	1/28/2014	RUF	EPA18
Vinyl chloride	<10	<10	<10	<10	<3.9	10	1/28/2014	RUF	EPA18

Client ID: SVE_GAC_EFF_012414_1803	Lab ID: 1401111-002A	Date Sampled: 1/24/2014	Media: Tedlar Bag	Air Vol.(L): 1					
1,1,1-Trichloroethane	<10	<10	<10	<10	<1.8	10	1/28/2014	RUF	EPA18
1,1-Dichloroethene	<10	<10	<10	<10	<2.5	10	1/28/2014	RUF	EPA18
2-Butanone	<10	<10	<10	<10	<3.4	10	1/28/2014	RUF	EPA18
4-Methyl-2-pentanone	<10	<10	<10	<10	<2.4	10	1/28/2014	RUF	EPA18
Acetone	<10	<10	<10	<10	<4.2	10	1/28/2014	RUF	EPA18
Benzene	<10	<10	<10	<10	<3.1	10	1/28/2014	RUF	EPA18
Carbon tetrachloride	<10	<10	<10	<10	<1.6	10	1/28/2014	RUF	EPA18
Chloroform	<10	<10	<10	<10	<2.0	10	1/28/2014	RUF	EPA18
cis-1,2-Dichloroethene	<10	<10	<10	<10	<2.5	10	1/28/2014	RUF	EPA18
Diethyl ether	<10	<10	<10	<10	<3.3	10	1/28/2014	RUF	EPA18
Ethylbenzene	<10	<10	<10	<10	<2.3	10	1/28/2014	RUF	EPA18
Freon 141B	<10	<10	<10	<10	<2.1	10	1/28/2014	RUF	EPA18

Qualifiers:

< Less than the indicated limit of detection (LOD)

H Holding time for preparation or analysis

B Analyte detected in the associated Method Blank

(a) Analysis indicates possible breakthrough; back section result is greater than

10 % of the front section result.

**Analytical Results
for**

Arcadis

Date: 30-Jan-14

Workorder: 1401111

Client Reference: Lafarge East Point Air Sparge

Analyte	Concentration					Limit of Detection (ug)	Qual	Date Analyzed /Analyst	Test Method
	Total (ug)	Front (ug)	Back (ug)	(mg/m3)	(ppm)				
m,p-Xylene	<20	<20	<20	<20	<4.6	20		1/28/2014 RUF	EPA18
Methyl tert-butyl ether	<10	<10	<10	<10	<2.8	10		1/28/2014 RUF	EPA18
Methylene chloride	<10	<10	<10	<10	<2.9	10		1/28/2014 RUF	EPA18
n-Heptane	<10	<10	<10	<10	<2.4	10		1/28/2014 RUF	EPA18
n-Hexane	<10	<10	<10	<10	<2.8	10		1/28/2014 RUF	EPA18
Naphthalene	<10	<10	<10	<10	<1.9	10		1/28/2014 RUF	EPA18
o-Xylene	<10	<10	<10	<10	<2.3	10		1/28/2014 RUF	EPA18
Tetrachloroethene	<10	<10	<10	<10	<1.5	10		1/28/2014 RUF	EPA18
Toluene	<10	<10	<10	<10	<2.6	10		1/28/2014 RUF	EPA18
trans-1,2-Dichloroethene	<10	<10	<10	<10	<2.5	10		1/28/2014 RUF	EPA18
Trichloroethene	<10	<10	<10	<10	<1.9	10		1/28/2014 RUF	EPA18
TRPH (Based on Benzene)	<100	<100	<100	<100	<31	100		1/28/2014 RUF	EPA18
Vinyl chloride	<10	<10	<10	<10	<3.9	10		1/28/2014 RUF	EPA18

Qualifiers:

< Less than the indicated limit of detection (LOD)

H Holding time for preparation or analysis

B Analyte detected in the associated Method Blank

(a) Analysis indicates possible breakthrough; back section result is greater than

10 % of the front section result.

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Arcais

Work Order Number 1401E11

Checklist completed by [Signature] Date 1.24.14

Carrier name: FedEx UPS Courier Client US Mail Other

Shipping container/cooler in good condition? Yes No Not Present

Custody seals intact on shipping container/cooler? Yes No Not Present

Custody seals intact on sample bottles? Yes No Not Present

Container/Temp Blank temperature in compliance? (4°C±2)* Yes No

Cooler #1 Arcais Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler #5 _____ Cooler #6 _____

Chain of custody present? Yes No

Chain of custody signed when relinquished and received? Yes No

Chain of custody agrees with sample labels? Yes No

Samples in proper container/bottle? Yes No

Sample containers intact? Yes No

Sufficient sample volume for indicated test? Yes No

All samples received within holding time? Yes No

Was TAT marked on the COC? Yes No

Proceed with Standard TAT as per project history? Yes No Not Applicable

Water - VOA vials have zero headspace? No VOA vials submitted Yes No

Water - pH acceptable upon receipt? Yes No Not Applicable

Adjusted? _____ Checked by _____

Sample Condition: Good Other(Explain) _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes No

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

Client: Arcadis
Project: Lafarge East Point Air Sparge
Lab Order: 1401111

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1401111-001A	SVE_GAC_INF_012414_1801	1/24/2014 6:01:00PM	Air	Aromatic Volatiles in Air		01/27/2014	01/28/2014
1401111-001A	SVE_GAC_INF_012414_1801	1/24/2014 6:01:00PM	Air	Chlorinated Volatiles in Air		01/27/2014	01/28/2014
1401111-001A	SVE_GAC_INF_012414_1801	1/24/2014 6:01:00PM	Air	Volatile Hydrocarbons in Air		01/27/2014	01/28/2014
1401111-002A	SVE_GAC_EFF_012414_1803	1/24/2014 6:03:00PM	Air	Aromatic Volatiles in Air		01/27/2014	01/28/2014
1401111-002A	SVE_GAC_EFF_012414_1803	1/24/2014 6:03:00PM	Air	Chlorinated Volatiles in Air		01/27/2014	01/28/2014
1401111-002A	SVE_GAC_EFF_012414_1803	1/24/2014 6:03:00PM	Air	Volatile Hydrocarbons in Air		01/27/2014	01/28/2014

Client: Arcadis
 Project Name: Lafarge East Point Air Sparge
 Workorder: 1401111

ANALYTICAL QC SUMMARY REPORT

BatchID: 186403

Sample ID: MB-186403	Client ID:	Units: ug, Total	Prep Date: 01/27/2014	Run No: 260387							
SampleType: MBLK	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 186403	Analysis Date: 01/27/2014	Seq No: 5473242							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	BRL	10									
1,1-Dichloroethene	BRL	10									
Carbon tetrachloride	BRL	10									
Chloroform	BRL	10									
cis-1,2-Dichloroethene	BRL	10									
Freon 141B	BRL	10									
Methylene chloride	BRL	10									
Tetrachloroethene	BRL	10									
trans-1,2-Dichloroethene	BRL	10									
Trichloroethene	BRL	10									
Vinyl chloride	BRL	10									

Sample ID: MB-186403	Client ID:	Units: ug, Total	Prep Date: 01/27/2014	Run No: 260388							
SampleType: MBLK	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 186403	Analysis Date: 01/27/2014	Seq No: 5473295							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2-Butanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	10									
Diethyl ether	BRL	10									
n-Heptane	BRL	10									
n-Hexane	BRL	10									

Sample ID: MB-186403	Client ID:	Units: ug, Total	Prep Date: 01/27/2014	Run No: 260389							
SampleType: MBLK	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 186403	Analysis Date: 01/27/2014	Seq No: 5473360							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene	BRL	10									
---------	-----	----	--	--	--	--	--	--	--	--	--

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
Project Name: Lafarge East Point Air Sparge
Workorder: 1401111

ANALYTICAL QC SUMMARY REPORT

BatchID: 186403

Sample ID: MB-186403	Client ID:	Units: ug, Total	Prep Date: 01/27/2014	Run No: 260389							
SampleType: MBLK	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 186403	Analysis Date: 01/27/2014	Seq No: 5473360							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethylbenzene
m,p-Xylene
Methyl tert-butyl ether
Naphthalene
o-Xylene
Toluene
TRPH (Based on Benzene)

BRL
BRL
BRL
BRL
BRL
BRL
BRL

10
20
10
10
10
10
100

Sample ID: LCS-186403	Client ID:	Units: ug, Total	Prep Date: 01/27/2014	Run No: 260387							
SampleType: LCS	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 186403	Analysis Date: 01/27/2014	Seq No: 5473244							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane
Carbon tetrachloride
Chloroform
Methylene chloride
Tetrachloroethene
Trichloroethene

98.63
102.7
97.76
100.3
94.94
98.96

10
10
10
10
10
10

100.0
100.0
100.0
100.0
100.0
100.0

98.6
103
97.8
100
94.9
99.0

85
85
83.2
85
85
85

120
126
120
126
118
122

Sample ID: LCS-186403	Client ID:	Units: ug, Total	Prep Date: 01/27/2014	Run No: 260388							
SampleType: LCS	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 186403	Analysis Date: 01/27/2014	Seq No: 5473296							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2-Butanone
4-Methyl-2-pentanone
Acetone
Diethyl ether
n-Heptane

91.41
94.10
83.28
97.02
99.27

10
10
10
10
10

100.0
100.0
100.0
100.0
100.0

91.4
94.1
83.3
97.0
99.3

74.2
81.5
70.1
79.9
87

120
120
120
120
121

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	

Client: Arcadis
Project Name: Lafarge East Point Air Sparge
Workorder: 1401111

ANALYTICAL QC SUMMARY REPORT

BatchID: 186403

Sample ID: LCS-186403	Client ID:	Units: ug, Total	Prep Date: 01/27/2014	Run No: 260388							
SampleType: LCS	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 186403	Analysis Date: 01/27/2014	Seq No: 5473296							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

n-Hexane 101.9 10 100.0 102 87.1 123

Sample ID: LCS-186403	Client ID:	Units: ug, Total	Prep Date: 01/27/2014	Run No: 260389							
SampleType: LCS	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 186403	Analysis Date: 01/27/2014	Seq No: 5473263							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene 99.48 10 100.0 99.5 76 123
 Ethylbenzene 97.96 10 100.0 98.0 80.2 124
 m,p-Xylene 193.2 20 200.0 96.6 78 123
 Methyl tert-butyl ether 82.07 10 100.0 82.1 71 120
 Naphthalene 46.19 10 100.0 46.2 34.4 100
 o-Xylene 91.70 10 100.0 91.7 78 118
 Toluene 97.34 10 100.0 1.453 95.9 78.3 121

Sample ID: LCS-186403-2	Client ID:	Units: ug, Total	Prep Date: 01/27/2014	Run No: 260387							
SampleType: LCS	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 186403	Analysis Date: 01/28/2014	Seq No: 5473250							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene 94.66 10 100.0 94.7 83.6 119
 cis-1,2-Dichloroethene 100.1 10 100.0 100 84.2 123
 trans-1,2-Dichloroethene 101.1 10 100.0 101 85 120

Sample ID: LCS-186403-3	Client ID:	Units: ug, Total	Prep Date: 01/27/2014	Run No: 260387							
SampleType: LCS	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 186403	Analysis Date: 01/28/2014	Seq No: 5473246							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Vinyl chloride 22.74 10 25.00 91.0 60.4 121

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Arcadis
Project Name: Lafarge East Point Air Sparge
Workorder: 1401111

ANALYTICAL QC SUMMARY REPORT

BatchID: 186403

Sample ID: LCS D-186403	Client ID:	Units: ug, Total	Prep Date: 01/27/2014	Run No: 260387							
SampleType: LCS D	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 186403	Analysis Date: 01/27/2014	Seq No: 5473245							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	98.03	10	100.0		98.0	85	120	98.63	0.609	15	
Carbon tetrachloride	101.7	10	100.0		102	85	126	102.7	0.959	15	
Chloroform	97.08	10	100.0		97.1	83.2	120	97.76	0.701	15	
Methylene chloride	99.68	10	100.0		99.7	85	126	100.3	0.645	15	
Tetrachloroethene	94.64	10	100.0		94.6	85	118	94.94	0.318	15	
Trichloroethene	100.0	10	100.0		100	85	122	98.96	1.05	15	

Sample ID: LCS D-186403	Client ID:	Units: ug, Total	Prep Date: 01/27/2014	Run No: 260388							
SampleType: LCS D	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 186403	Analysis Date: 01/27/2014	Seq No: 5473298							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2-Butanone	91.19	10	100.0		91.2	74.2	120	91.41	0.238	15	
4-Methyl-2-pentanone	93.58	10	100.0		93.6	81.5	120	94.10	0.550	15	
Acetone	82.96	10	100.0		83.0	70.1	120	83.28	0.384	15	
Diethyl ether	96.11	10	100.0		96.1	79.9	120	97.02	0.948	15	
n-Heptane	98.68	10	100.0		98.7	87	121	99.27	0.593	15	
n-Hexane	101.0	10	100.0		101	87.1	123	101.9	0.905	15	

Sample ID: LCS D-186403	Client ID:	Units: ug, Total	Prep Date: 01/27/2014	Run No: 260389							
SampleType: LCS D	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 186403	Analysis Date: 01/27/2014	Seq No: 5473369							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene	98.93	10	100.0		98.9	76	123	99.48	0.560	15	
Ethylbenzene	98.72	10	100.0		98.7	80.2	124	97.96	0.779	15	
m,p-Xylene	194.7	20	200.0		97.3	78	123	193.2	0.782	15	
Methyl tert-butyl ether	81.67	10	100.0		81.7	71	120	82.07	0.495	15	
Naphthalene	45.21	10	100.0		45.2	34.4	100	46.19	2.14	15	
o-Xylene	92.53	10	100.0		92.5	78	118	91.70	0.903	15	

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Arcadis
Project Name: Lafarge East Point Air Sparge
Workorder: 1401111

ANALYTICAL QC SUMMARY REPORT

BatchID: 186403

Sample ID: LCSD-186403	Client ID:	Units: ug, Total	Prep Date: 01/27/2014	Run No: 260389							
SampleType: LCSD	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 186403	Analysis Date: 01/27/2014	Seq No: 5473369							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Toluene	96.90	10	100.0	1.453	95.4	78.3	121	97.34	0.451	15
---------	-------	----	-------	-------	------	------	-----	-------	-------	----

Sample ID: LCSD-186403-2	Client ID:	Units: ug, Total	Prep Date: 01/27/2014	Run No: 260387							
SampleType: LCSD	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 186403	Analysis Date: 01/28/2014	Seq No: 5473252							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	94.20	10	100.0		94.2	83.6	119	94.66	0.485	15
cis-1,2-Dichloroethene	99.76	10	100.0		99.8	84.2	123	100.1	0.308	15
trans-1,2-Dichloroethene	100.3	10	100.0		100	85	120	101.1	0.793	15

Sample ID: LCSD-186403-3	Client ID:	Units: ug, Total	Prep Date: 01/27/2014	Run No: 260387							
SampleType: LCSD	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 186403	Analysis Date: 01/28/2014	Seq No: 5473248							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Vinyl chloride	22.58	10	25.00		90.3	60.4	121	22.74	0.733	19.2
----------------	-------	----	-------	--	------	------	-----	-------	-------	------

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
BRL	Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S Spike Recovery outside limits due to matrix	



February 06, 2014

Peter Cornais
Arcadis
2081 Vista Parkway, Suite 200
West Palm Beach FL 33411

TEL: (850) 445-0829
FAX:

RE: Lafarge AS/SVE Sys.

Dear Peter Cornais:

Order No: 1402062

Analytical Environmental Services, Inc. received 3 samples on 2/1/2014 1:37:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/13-06/30/14.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/15.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Chantelle Kanhai
Project Manager

Analytical Results

for

Arcadis

Date: 6-Feb-14

Workorder: 1402062

Client Reference: Lafarge AS/SVE Sys.

Analyte	Concentration					Limit of Detection (ug)	Qual	Date Analyzed /Analyst	Test Method
	Total (ug)	Front (ug)	Back (ug)	(mg/m3)	(ppm)				
Client ID: SVE_GAC_INF_020114_	Lab ID: 1402062-001A	Date Sampled: 2/1/2014	Media: Tedlar Bag	Air Vol.(L): 1					
1,1,1-Trichloroethane	<10	<10	<10	<10	<1.8	10	2/4/2014	RUF	EPA18
1,1-Dichloroethene	<10	<10	<10	<10	<2.5	10	2/4/2014	RUF	EPA18
2-Butanone	<10	<10	<10	<10	<3.4	10	2/4/2014	RUF	EPA18
4-Methyl-2-pentanone	<10	<10	<10	<10	<2.4	10	2/4/2014	RUF	EPA18
Acetone	<10	<10	<10	<10	<4.2	10	2/4/2014	RUF	EPA18
Benzene	<10	<10	<10	<10	<3.1	10	2/4/2014	RUF	EPA18
Carbon tetrachloride	<10	<10	<10	<10	<1.6	10	2/4/2014	RUF	EPA18
Chloroform	<10	<10	<10	<10	<2.0	10	2/4/2014	RUF	EPA18
cis-1,2-Dichloroethene	<10	<10	<10	<10	<2.5	10	2/4/2014	RUF	EPA18
Diethyl ether	<10	<10	<10	<10	<3.3	10	2/4/2014	RUF	EPA18
Ethylbenzene	27	27.093	<10	27	6.2	10	2/4/2014	RUF	EPA18
Freon 141B	<10	<10	<10	<10	<2.1	10	2/4/2014	RUF	EPA18
m,p-Xylene	86	86.408	<20	86	20	20	2/4/2014	RUF	EPA18
Methyl tert-butyl ether	<10	<10	<10	<10	<2.8	10	2/4/2014	RUF	EPA18
Methylene chloride	<10	<10	<10	<10	<2.9	10	2/4/2014	RUF	EPA18
n-Heptane	170	169.459	<10	170	41	10	2/4/2014	RUF	EPA18
n-Hexane	480	477.653	<10	480	140	10	2/4/2014	RUF	EPA18
Naphthalene	<10	<10	<10	<10	<1.9	10	2/4/2014	RUF	EPA18
o-Xylene	15	15.488	<10	15	3.6	10	2/4/2014	RUF	EPA18
Tetrachloroethene	<10	<10	<10	<10	<1.5	10	2/4/2014	RUF	EPA18
Toluene	400	401.683	<10	400	110	10	2/4/2014	RUF	EPA18
trans-1,2-Dichloroethene	<10	<10	<10	<10	<2.5	10	2/4/2014	RUF	EPA18
Trichloroethene	51	51.297	<10	51	9.6	10	2/4/2014	RUF	EPA18
TRPH (Based on Benzene)	2400	2405.06	<100	2400	750	100	2/4/2014	RUF	EPA18
Vinyl chloride	<10	<10	<10	<10	<3.9	10	2/4/2014	RUF	EPA18

Client ID: SVE_GAC_MID_020114_	Lab ID: 1402062-002A	Date Sampled: 2/1/2014	Media: Tedlar Bag	Air Vol.(L): 1					
1,1,1-Trichloroethane	<10	<10	<10	<10	<1.8	10	2/4/2014	RUF	EPA18
1,1-Dichloroethene	<10	<10	<10	<10	<2.5	10	2/4/2014	RUF	EPA18
2-Butanone	<10	<10	<10	<10	<3.4	10	2/4/2014	RUF	EPA18
4-Methyl-2-pentanone	<10	<10	<10	<10	<2.4	10	2/4/2014	RUF	EPA18
Acetone	<10	<10	<10	<10	<4.2	10	2/4/2014	RUF	EPA18
Benzene	<10	<10	<10	<10	<3.1	10	2/4/2014	RUF	EPA18
Carbon tetrachloride	<10	<10	<10	<10	<1.6	10	2/4/2014	RUF	EPA18
Chloroform	<10	<10	<10	<10	<2.0	10	2/4/2014	RUF	EPA18
cis-1,2-Dichloroethene	19	19.298	<10	19	4.9	10	2/4/2014	RUF	EPA18
Diethyl ether	<10	<10	<10	<10	<3.3	10	2/4/2014	RUF	EPA18
Ethylbenzene	<10	<10	<10	<10	<2.3	10	2/4/2014	RUF	EPA18
Freon 141B	<10	<10	<10	<10	<2.1	10	2/4/2014	RUF	EPA18

Qualifiers:

< Less than the indicated limit of detection (LOD)

H Holding time for preparation or analysis

B Analyte detected in the associated Method Blank

(a) Analysis indicates possible breakthrough; back section result is greater than

10 % of the front section result.

Analytical Results

for

Arcadis

Date: 6-Feb-14

Workorder: 1402062

Client Reference: Lafarge AS/SVE Sys.

Analyte	Concentration					Limit of Detection (ug)	Qual	Date Analyzed	Test Method
	Total (ug)	Front (ug)	Back (ug)	(mg/m3)	(ppm)				
m,p-Xylene	<20	<20	<20	<20	<4.6	20	2/4/2014	RUF EPA18	
Methyl tert-butyl ether	<10	<10	<10	<10	<2.8	10	2/4/2014	RUF EPA18	
Methylene chloride	<10	<10	<10	<10	<2.9	10	2/4/2014	RUF EPA18	
n-Heptane	29	28.645	<10	29	7.0	10	2/4/2014	RUF EPA18	
n-Hexane	850	850.823	<10	850	240	10	2/4/2014	RUF EPA18	
Naphthalene	<10	<10	<10	<10	<1.9	10	2/4/2014	RUF EPA18	
o-Xylene	<10	<10	<10	<10	<2.3	10	2/4/2014	RUF EPA18	
Tetrachloroethene	<10	<10	<10	<10	<1.5	10	2/4/2014	RUF EPA18	
Toluene	<10	<10	<10	<10	<2.6	10	2/4/2014	RUF EPA18	
trans-1,2-Dichloroethene	<10	<10	<10	<10	<2.5	10	2/4/2014	RUF EPA18	
Trichloroethene	270	272.368	<10	270	51	10	2/4/2014	RUF EPA18	
TRPH (Based on Benzene)	2600	2553.17	<100	2600	800	100	2/4/2014	RUF EPA18	
Vinyl chloride	<10	<10	<10	<10	<3.9	10	2/4/2014	RUF EPA18	

Client ID: SVE_GAC_EFF_020114_ **Lab ID:** 1402062-003A **Date Sampled:** 2/1/2014 **Media:** Tedlar Bag **Air Vol.(L):** 1

1,1,1-Trichloroethane	<10	<10	<10	<10	<1.8	10	2/4/2014	RUF EPA18
1,1-Dichloroethene	<10	<10	<10	<10	<2.5	10	2/4/2014	RUF EPA18
2-Butanone	<10	<10	<10	<10	<3.4	10	2/4/2014	RUF EPA18
4-Methyl-2-pentanone	<10	<10	<10	<10	<2.4	10	2/4/2014	RUF EPA18
Acetone	<10	<10	<10	<10	<4.2	10	2/4/2014	RUF EPA18
Benzene	<10	<10	<10	<10	<3.1	10	2/4/2014	RUF EPA18
Carbon tetrachloride	<10	<10	<10	<10	<1.6	10	2/4/2014	RUF EPA18
Chloroform	<10	<10	<10	<10	<2.0	10	2/4/2014	RUF EPA18
cis-1,2-Dichloroethene	<10	<10	<10	<10	<2.5	10	2/4/2014	RUF EPA18
Diethyl ether	<10	<10	<10	<10	<3.3	10	2/4/2014	RUF EPA18
Ethylbenzene	<10	<10	<10	<10	<2.3	10	2/4/2014	RUF EPA18
Freon 141B	<10	<10	<10	<10	<2.1	10	2/4/2014	RUF EPA18
m,p-Xylene	<20	<20	<20	<20	<4.6	20	2/4/2014	RUF EPA18
Methyl tert-butyl ether	<10	<10	<10	<10	<2.8	10	2/4/2014	RUF EPA18
Methylene chloride	<10	<10	<10	<10	<2.9	10	2/4/2014	RUF EPA18
n-Heptane	<10	<10	<10	<10	<2.4	10	2/4/2014	RUF EPA18
n-Hexane	<10	<10	<10	<10	<2.8	10	2/4/2014	RUF EPA18
Naphthalene	<10	<10	<10	<10	<1.9	10	2/4/2014	RUF EPA18
o-Xylene	<10	<10	<10	<10	<2.3	10	2/4/2014	RUF EPA18
Tetrachloroethene	<10	<10	<10	<10	<1.5	10	2/4/2014	RUF EPA18
Toluene	<10	<10	<10	<10	<2.6	10	2/4/2014	RUF EPA18
trans-1,2-Dichloroethene	<10	<10	<10	<10	<2.5	10	2/4/2014	RUF EPA18
Trichloroethene	<10	<10	<10	<10	<1.9	10	2/4/2014	RUF EPA18
TRPH (Based on Benzene)	620	618.796	<100	620	190	100	2/4/2014	RUF EPA18
Vinyl chloride	<10	<10	<10	<10	<3.9	10	2/4/2014	RUF EPA18

Qualifiers:

< Less than the indicated limit of detection (LOD)

H Holding time for preparation or analysis

B Analyte detected in the associated Method Blank

(a) Analysis indicates possible breakthrough; back section result is greater than

10 % of the front section result.

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Arcois

Work Order Number 1402062

Checklist completed by [Signature] Date 2/1/14

Carrier name: FedEx UPS Courier Client US Mail Other

Shipping container/cooler in good condition? Yes No Not Present

Custody seals intact on shipping container/cooler? Yes No Not Present

Custody seals intact on sample bottles? Yes No Not Present

Container/Temp Blank temperature in compliance? (4°C ± 2)* Yes No

Cooler #1 4w Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler #5 _____ Cooler #6 _____

Chain of custody present? Yes No

Chain of custody signed when relinquished and received? Yes No

Chain of custody agrees with sample labels? Yes No

Samples in proper container/bottle? Yes No

Sample containers intact? Yes No

Sufficient sample volume for indicated test? Yes No

All samples received within holding time? Yes No

Was TAT marked on the COC? Yes No

Proceed with Standard TAT as per project history? Yes No Not Applicable

Water - VOA vials have zero headspace? No VOA vials submitted Yes No

Water - pH acceptable upon receipt? Yes No Not Applicable

Adjusted? _____ Checked by _____

Sample Condition: Good Other(Explain) _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes No

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

Client: Arcadis
Project: Lafarge AS/SVE Sys.
Lab Order: 1402062

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1402062-001A	SVE_GAC_INF_020114_	2/1/2014 12:38:00PM	Air	Aromatic Volatiles in Air		02/03/2014	02/04/2014
1402062-001A	SVE_GAC_INF_020114_	2/1/2014 12:38:00PM	Air	Chlorinated Volatiles in Air		02/03/2014	02/04/2014
1402062-001A	SVE_GAC_INF_020114_	2/1/2014 12:38:00PM	Air	Volatile Hydrocarbons in Air		02/03/2014	02/04/2014
1402062-002A	SVE_GAC_MID_020114_	2/1/2014 12:40:00PM	Air	Aromatic Volatiles in Air		02/03/2014	02/04/2014
1402062-002A	SVE_GAC_MID_020114_	2/1/2014 12:40:00PM	Air	Chlorinated Volatiles in Air		02/03/2014	02/04/2014
1402062-002A	SVE_GAC_MID_020114_	2/1/2014 12:40:00PM	Air	Volatile Hydrocarbons in Air		02/03/2014	02/04/2014
1402062-003A	SVE_GAC_EFF_020114_	2/1/2014 12:39:00PM	Air	Aromatic Volatiles in Air		02/03/2014	02/04/2014
1402062-003A	SVE_GAC_EFF_020114_	2/1/2014 12:39:00PM	Air	Chlorinated Volatiles in Air		02/03/2014	02/04/2014
1402062-003A	SVE_GAC_EFF_020114_	2/1/2014 12:39:00PM	Air	Volatile Hydrocarbons in Air		02/03/2014	02/04/2014

Client: Arcadis
Project Name: Lafarge AS/SVE Sys.
Workorder: 1402062

ANALYTICAL QC SUMMARY REPORT

BatchID: 186631

Sample ID: MB-186631	Client ID:	Units: ug, Total	Prep Date: 02/03/2014	Run No: 260607							
SampleType: MBLK	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 186631	Analysis Date: 02/04/2014	Seq No: 5479982							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane
 1,1-Dichloroethene
 Carbon tetrachloride
 Chloroform
 cis-1,2-Dichloroethene
 Freon 141B
 Methylene chloride
 Tetrachloroethene
 trans-1,2-Dichloroethene
 Trichloroethene
 Vinyl chloride

BRL
 BRL

10
 10
 10
 10
 10
 10
 10
 10
 10
 10
 10

Sample ID: MB-186631	Client ID:	Units: ug, Total	Prep Date: 02/03/2014	Run No: 260608							
SampleType: MBLK	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 186631	Analysis Date: 02/04/2014	Seq No: 5480200							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2-Butanone
 4-Methyl-2-pentanone
 Acetone
 Diethyl ether
 n-Heptane
 n-Hexane

BRL
 BRL
 BRL
 BRL
 BRL
 BRL

10
 10
 10
 10
 10
 10

Sample ID: MB-186631	Client ID:	Units: ug, Total	Prep Date: 02/03/2014	Run No: 260609							
SampleType: MBLK	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 186631	Analysis Date: 02/04/2014	Seq No: 5480283							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene

BRL
 10

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Arcadis
Project Name: Lafarge AS/SVE Sys.
Workorder: 1402062

ANALYTICAL QC SUMMARY REPORT

BatchID: 186631

Sample ID: MB-186631	Client ID:	Units: ug, Total	Prep Date: 02/03/2014	Run No: 260609							
SampleType: MBLK	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 186631	Analysis Date: 02/04/2014	Seq No: 5480283							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethylbenzene
m,p-Xylene
Methyl tert-butyl ether
Naphthalene
o-Xylene
Toluene
TRPH (Based on Benzene)

BRL
BRL
BRL
BRL
BRL
BRL
BRL

10
20
10
10
10
10
100

Sample ID: LCS-186631	Client ID:	Units: ug, Total	Prep Date: 02/03/2014	Run No: 260607							
SampleType: LCS	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 186631	Analysis Date: 02/04/2014	Seq No: 5479983							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane
Carbon tetrachloride
Chloroform
Methylene chloride
Tetrachloroethene
Trichloroethene

105.1
108.9
103.5
106.0
102.2
107.1

10
10
10
10
10
10

100.0
100.0
100.0
100.0
100.0
100.0

105
109
104
106
102
107

85
85
83.2
85
85
85

120
126
120
126
118
122

Sample ID: LCS-186631	Client ID:	Units: ug, Total	Prep Date: 02/03/2014	Run No: 260608							
SampleType: LCS	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 186631	Analysis Date: 02/04/2014	Seq No: 5480202							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2-Butanone
4-Methyl-2-pentanone
Acetone
Diethyl ether
n-Heptane

92.94
98.53
83.76
102.9
105.8

10
10
10
10
10

100.0
100.0
100.0
100.0
100.0

92.9
98.5
83.8
103
106

74.2
81.5
70.1
79.9
87

120
120
120
120
121

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	

Client: Arcadis
Project Name: Lafarge AS/SVE Sys.
Workorder: 1402062

ANALYTICAL QC SUMMARY REPORT

BatchID: 186631

Sample ID: LCS-186631	Client ID:	Units: ug, Total	Prep Date: 02/03/2014	Run No: 260608							
SampleType: LCS	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 186631	Analysis Date: 02/04/2014	Seq No: 5480202							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

n-Hexane 108.3 10 100.0 108 87.1 123

Sample ID: LCS-186631	Client ID:	Units: ug, Total	Prep Date: 02/03/2014	Run No: 260609							
SampleType: LCS	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 186631	Analysis Date: 02/04/2014	Seq No: 5480284							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene 106.0 10 100.0 106 76 123
 Ethylbenzene 107.2 10 100.0 107 80.2 124
 m,p-Xylene 211.7 20 200.0 106 78 123
 Methyl tert-butyl ether 87.08 10 100.0 87.1 71 120
 Naphthalene 48.87 10 100.0 48.9 34.4 100
 o-Xylene 100.4 10 100.0 100 78 118
 Toluene 104.4 10 100.0 104 78.3 121

Sample ID: LCS-186631-2	Client ID:	Units: ug, Total	Prep Date: 02/03/2014	Run No: 260607							
SampleType: LCS	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 186631	Analysis Date: 02/04/2014	Seq No: 5479991							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene 100.6 10 100.0 101 83.6 119
 cis-1,2-Dichloroethene 105.4 10 100.0 105 84.2 123
 trans-1,2-Dichloroethene 106.1 10 100.0 106 85 120

Sample ID: LCS-186631-3	Client ID:	Units: ug, Total	Prep Date: 02/03/2014	Run No: 260607							
SampleType: LCS	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 186631	Analysis Date: 02/04/2014	Seq No: 5479988							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Vinyl chloride 24.07 10 25.00 96.3 60.4 121

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Arcadis
Project Name: Lafarge AS/SVE Sys.
Workorder: 1402062

ANALYTICAL QC SUMMARY REPORT

BatchID: 186631

Sample ID: LCSD-186631	Client ID:	Units: ug, Total	Prep Date: 02/03/2014	Run No: 260607							
SampleType: LCSD	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 186631	Analysis Date: 02/04/2014	Seq No: 5479985							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	106.5	10	100.0		106	85	120	105.1	1.32	15	
Carbon tetrachloride	110.4	10	100.0		110	85	126	108.9	1.39	15	
Chloroform	105.2	10	100.0		105	83.2	120	103.5	1.60	15	
Methylene chloride	107.5	10	100.0		107	85	126	106.0	1.34	15	
Tetrachloroethene	103.4	10	100.0		103	85	118	102.2	1.18	15	
Trichloroethene	108.6	10	100.0		109	85	122	107.1	1.30	15	

Sample ID: LCSD-186631	Client ID:	Units: ug, Total	Prep Date: 02/03/2014	Run No: 260608							
SampleType: LCSD	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 186631	Analysis Date: 02/04/2014	Seq No: 5480203							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2-Butanone	94.28	10	100.0		94.3	74.2	120	92.94	1.43	15	
4-Methyl-2-pentanone	99.78	10	100.0		99.8	81.5	120	98.53	1.27	15	
Acetone	84.64	10	100.0		84.6	70.1	120	83.76	1.05	15	
Diethyl ether	103.6	10	100.0		104	79.9	120	102.9	0.634	15	
n-Heptane	107.2	10	100.0		107	87	121	105.8	1.34	15	
n-Hexane	109.9	10	100.0		110	87.1	123	108.3	1.44	15	

Sample ID: LCSD-186631	Client ID:	Units: ug, Total	Prep Date: 02/03/2014	Run No: 260609							
SampleType: LCSD	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 186631	Analysis Date: 02/04/2014	Seq No: 5480285							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene	107.2	10	100.0		107	76	123	106.0	1.16	15	
Ethylbenzene	108.0	10	100.0		108	80.2	124	107.2	0.764	15	
m,p-Xylene	213.0	20	200.0		106	78	123	211.7	0.606	15	
Methyl tert-butyl ether	88.48	10	100.0		88.5	71	120	87.08	1.59	15	
Naphthalene	48.46	10	100.0		48.5	34.4	100	48.87	0.838	15	
o-Xylene	101.0	10	100.0		101	78	118	100.4	0.582	15	

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Arcadis
Project Name: Lafarge AS/SVE Sys.
Workorder: 1402062

ANALYTICAL QC SUMMARY REPORT

BatchID: 186631

Sample ID: LCSD-186631	Client ID:	Units: ug, Total	Prep Date: 02/03/2014	Run No: 260609							
SampleType: LCSD	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 186631	Analysis Date: 02/04/2014	Seq No: 5480285							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Toluene	105.5	10	100.0		106	78.3	121	104.4	1.10	15	
---------	-------	----	-------	--	-----	------	-----	-------	------	----	--

Sample ID: LCSD-186631-2	Client ID:	Units: ug, Total	Prep Date: 02/03/2014	Run No: 260607							
SampleType: LCSD	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 186631	Analysis Date: 02/04/2014	Seq No: 5479992							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	101.7	10	100.0		102	83.6	119	100.6	1.09	15	
cis-1,2-Dichloroethene	106.0	10	100.0		106	84.2	123	105.4	0.598	15	
trans-1,2-Dichloroethene	107.2	10	100.0		107	85	120	106.1	1.05	15	

Sample ID: LCSD-186631-3	Client ID:	Units: ug, Total	Prep Date: 02/03/2014	Run No: 260607							
SampleType: LCSD	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 186631	Analysis Date: 02/04/2014	Seq No: 5479989							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Vinyl chloride	24.11	10	25.00		96.5	60.4	121	24.07	0.183	19.2	
----------------	-------	----	-------	--	------	------	-----	-------	-------	------	--

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
BRL	Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S Spike Recovery outside limits due to matrix	



February 07, 2014

Peter Cornais
Arcadis
2081 Vista Parkway, Suite 200
West Palm Beach FL 33411

TEL: (850) 445-0829
FAX:

RE: Lafarge East Point Air Sparge

Dear Peter Cornais:

Order No: 1402525

Analytical Environmental Services, Inc. received 3 samples on 2/6/2014 3:04:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/13-06/30/14.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/15.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Chantelle Kanhai
Project Manager



ANALYTICAL ENVIRONMENTAL SERVICES, INC

3785 Presidential Parkway, Atlanta GA 30340-3704

TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: _____

140 2525

Date: 2-6-14 Page 1 of 1

COMPANY: <i>Arcadis</i>		ADDRESS: <i>1000 Cobb Place Blvd Building 500A Kennesaw GA 30144</i>			ANALYSIS REQUESTED								Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.		
PHONE: <i>7704289009</i>		FAX: <i>770 428 4004</i>			EPA 18 Full List								No # of Containers		
SAMPLED BY: <i>Ivan Jenkins</i>		SIGNATURE: <i>Ivan Jenkins</i>													
#	SAMPLE ID	SAMPLED		Grab	Composite	Matrix (See codes)	PRESERVATION (See codes)								REMARKS
		DATE	TIME												
1	<i>SVE-GAL-INF-020614-</i>	<i>2-6-14</i>	<i>1353</i>	<i>/</i>		<i>Air</i>								<i>3day TAT</i>	<i>1</i>
2	<i>SVE-GAL-MID-020614-</i>	<i>2-6-14</i>	<i>1357</i>	<i>/</i>		<i>Air</i>								<i>3day TAT</i>	<i>1</i>
3	<i>SVE-GAL-EFF-020614-</i>	<i>2-6-14</i>	<i>1400</i>	<i>/</i>		<i>Air</i>								<i>24 hr TAT</i>	<i>1</i>
4															
5															
6															
7															
8															
9															
10															
11															
12															
13															
14															
RELINQUISHED BY		DATE/TIME	RECEIVED BY		DATE/TIME	PROJECT INFORMATION								RECEIPT	
1: <i>Ivan Jenkins</i>		<i>2-06-2014 1504</i>	1: <i>Latoya R</i>		<i>2/6/14 3:04p-</i>	PROJECT NAME: <i>Lafarge East Point Air Sparge</i>								Total # of Containers	<i>3</i>
2:			2:			PROJECT #: <i>HT212446.0014</i>								Turnaround Time Request	
3:			3:			SITE ADDRESS: <i>2675 N. Martin ST East Point, GA</i>								<input type="radio"/> Standard 5 Business Days	
SPECIAL INSTRUCTIONS/COMMENTS:		SHIPMENT METHOD				SEND REPORT TO: <i>peter.cornais@arcadis-us.com</i>								<input checked="" type="radio"/> 3 Business Day Rush <i>(2)</i>	
		OUT / / VIA:				INVOICE TO:								<input checked="" type="radio"/> Next Business Day Rush <i>(1)</i>	
		IN <input checked="" type="radio"/> CLIENT <input type="radio"/> FedEx <input type="radio"/> UPS <input type="radio"/> MAIL <input type="radio"/> COURIER				(IF DIFFERENT FROM ABOVE)								<input type="radio"/> Same Day Rush (auth req.)	
		<input type="radio"/> GREYHOUND <input type="radio"/> OTHER				QUOTE #:								<input type="radio"/> Other	
						PO#:								STATE PROGRAM (if any):	
														E-mail? Y/N; Fax? Y/N	
														DATA PACKAGE: I II III IV	

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES. SAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMPLETION UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

Analytical Results

for

Arcadis

Date: 7-Feb-14

Workorder: 1402525

Client Reference: Lafarge East Point Air Sparge

Analyte	Concentration					Limit of Detection (ug)	Qual	Date Analyzed /Analyst	Test Method
	Total (ug)	Front (ug)	Back (ug)	(mg/m3)	(ppm)				
Client ID: SVE_GAC_INF_020614_	Lab ID: 1402525-001A	Date Sampled: 2/6/2014	Media: Tedlar Bag	Air Vol.(L): 1					
1,1,1-Trichloroethane	<10	<10	<10	<10	<1.8	10	2/7/2014	RUF	EPA18
1,1-Dichloroethene	<10	<10	<10	<10	<2.5	10	2/7/2014	RUF	EPA18
2-Butanone	<10	<10	<10	<10	<3.4	10	2/7/2014	RUF	EPA18
4-Methyl-2-pentanone	<10	<10	<10	<10	<2.4	10	2/7/2014	RUF	EPA18
Acetone	<10	<10	<10	<10	<4.2	10	2/7/2014	RUF	EPA18
Benzene	<10	<10	<10	<10	<3.1	10	2/7/2014	RUF	EPA18
Carbon tetrachloride	<10	<10	<10	<10	<1.6	10	2/7/2014	RUF	EPA18
Chloroform	<10	<10	<10	<10	<2.0	10	2/7/2014	RUF	EPA18
cis-1,2-Dichloroethene	15	14.549	<10	15	3.7	10	2/7/2014	RUF	EPA18
Diethyl ether	<10	<10	<10	<10	<3.3	10	2/7/2014	RUF	EPA18
Ethylbenzene	34	33.626	<10	34	7.7	10	2/7/2014	RUF	EPA18
Freon 141B	<10	<10	<10	<10	<2.1	10	2/7/2014	RUF	EPA18
m,p-Xylene	110	112.663	<20	110	26	20	2/7/2014	RUF	EPA18
Methyl tert-butyl ether	<10	<10	<10	<10	<2.8	10	2/7/2014	RUF	EPA18
Methylene chloride	<10	<10	<10	<10	<2.9	10	2/7/2014	RUF	EPA18
n-Heptane	180	178.21	<10	180	44	10	2/7/2014	RUF	EPA18
n-Hexane	480	476.966	<10	480	140	10	2/7/2014	RUF	EPA18
Naphthalene	<10	<10	<10	<10	<1.9	10	2/7/2014	RUF	EPA18
o-Xylene	21	21.395	<10	21	4.9	10	2/7/2014	RUF	EPA18
Tetrachloroethene	<10	<10	<10	<10	<1.5	10	2/7/2014	RUF	EPA18
Toluene	550	545.625	<10	550	150	10	2/7/2014	RUF	EPA18
trans-1,2-Dichloroethene	<10	<10	<10	<10	<2.5	10	2/7/2014	RUF	EPA18
Trichloroethene	54	54.482	<10	54	10	10	2/7/2014	RUF	EPA18
TRPH (Based on Benzene)	2600	2619.17	<100	2600	820	100	2/7/2014	RUF	EPA18
Vinyl chloride	<10	<10	<10	<10	<3.9	10	2/7/2014	RUF	EPA18

Client ID: SVE_GAC_MID_020614_	Lab ID: 1402525-002A	Date Sampled: 2/6/2014	Media: Tedlar Bag	Air Vol.(L): 1					
1,1,1-Trichloroethane	<10	<10	<10	<10	<1.8	10	2/7/2014	RUF	EPA18
1,1-Dichloroethene	<10	<10	<10	<10	<2.5	10	2/7/2014	RUF	EPA18
2-Butanone	<10	<10	<10	<10	<3.4	10	2/7/2014	RUF	EPA18
4-Methyl-2-pentanone	<10	<10	<10	<10	<2.4	10	2/7/2014	RUF	EPA18
Acetone	<10	<10	<10	<10	<4.2	10	2/7/2014	RUF	EPA18
Benzene	<10	<10	<10	<10	<3.1	10	2/7/2014	RUF	EPA18
Carbon tetrachloride	<10	<10	<10	<10	<1.6	10	2/7/2014	RUF	EPA18
Chloroform	<10	<10	<10	<10	<2.0	10	2/7/2014	RUF	EPA18
cis-1,2-Dichloroethene	14	14.192	<10	14	3.6	10	2/7/2014	RUF	EPA18
Diethyl ether	<10	<10	<10	<10	<3.3	10	2/7/2014	RUF	EPA18
Ethylbenzene	<10	<10	<10	<10	<2.3	10	2/7/2014	RUF	EPA18
Freon 141B	<10	<10	<10	<10	<2.1	10	2/7/2014	RUF	EPA18

Qualifiers:

< Less than the indicated limit of detection (LOD)

H Holding time for preparation or analysis

B Analyte detected in the associated Method Blank

(a) Analysis indicates possible breakthrough; back section result is greater than

10 % of the front section result.

Analytical Results

for

Arcadis

Date: 7-Feb-14

Workorder: 1402525

Client Reference: Lafarge East Point Air Sparge

Analyte	Concentration					Limit of Detection (ug)	Qual	Date Analyzed	Test Method
	Total (ug)	Front (ug)	Back (ug)	(mg/m3)	(ppm)				
m,p-Xylene	<20	<20	<20	<20	<4.6	20	2/7/2014	RUF EPA18	
Methyl tert-butyl ether	<10	<10	<10	<10	<2.8	10	2/7/2014	RUF EPA18	
Methylene chloride	<10	<10	<10	<10	<2.9	10	2/7/2014	RUF EPA18	
n-Heptane	58	58.276	<10	58	14	10	2/7/2014	RUF EPA18	
n-Hexane	470	468.125	<10	470	130	10	2/7/2014	RUF EPA18	
Naphthalene	<10	<10	<10	<10	<1.9	10	2/7/2014	RUF EPA18	
o-Xylene	<10	<10	<10	<10	<2.3	10	2/7/2014	RUF EPA18	
Tetrachloroethene	<10	<10	<10	<10	<1.5	10	2/7/2014	RUF EPA18	
Toluene	<10	<10	<10	<10	<2.6	10	2/7/2014	RUF EPA18	
trans-1,2-Dichloroethene	<10	<10	<10	<10	<2.5	10	2/7/2014	RUF EPA18	
Trichloroethene	170	174.716	<10	170	32	10	2/7/2014	RUF EPA18	
TRPH (Based on Benzene)	1500	1503.66	<100	1500	470	100	2/7/2014	RUF EPA18	
Vinyl chloride	<10	<10	<10	<10	<3.9	10	2/7/2014	RUF EPA18	

Client ID: SVE_GAC_EFF_020614_ **Lab ID:** 1402525-003A **Date Sampled:** 2/6/2014 **Media:** **Air Vol.(L):** 0

1,1,1-Trichloroethane	<10	<10	<10			10	2/6/2014	RUF EPA18
1,1-Dichloroethene	<10	<10	<10			10	2/6/2014	RUF EPA18
2-Butanone	<10	<10	<10			10	2/6/2014	RUF EPA18
4-Methyl-2-pentanone	<10	<10	<10			10	2/6/2014	RUF EPA18
Acetone	<10	<10	<10			10	2/6/2014	RUF EPA18
Benzene	<10	<10	<10			10	2/6/2014	RUF EPA18
Carbon tetrachloride	<10	<10	<10			10	2/6/2014	RUF EPA18
Chloroform	<10	<10	<10			10	2/6/2014	RUF EPA18
cis-1,2-Dichloroethene	<10	<10	<10			10	2/6/2014	RUF EPA18
Diethyl ether	<10	<10	<10			10	2/6/2014	RUF EPA18
Ethylbenzene	<10	<10	<10			10	2/6/2014	RUF EPA18
Freon 141B	<10	<10	<10			10	2/6/2014	RUF EPA18
m,p-Xylene	<20	<20	<20			20	2/6/2014	RUF EPA18
Methyl tert-butyl ether	<10	<10	<10			10	2/6/2014	RUF EPA18
Methylene chloride	<10	<10	<10			10	2/6/2014	RUF EPA18
n-Heptane	<10	<10	<10			10	2/6/2014	RUF EPA18
n-Hexane	11	10.974				10	2/6/2014	RUF EPA18
Naphthalene	<10	<10	<10			10	2/6/2014	RUF EPA18
o-Xylene	<10	<10	<10			10	2/6/2014	RUF EPA18
Tetrachloroethene	<10	<10	<10			10	2/6/2014	RUF EPA18
Toluene	<10	<10	<10			10	2/6/2014	RUF EPA18
trans-1,2-Dichloroethene	<10	<10	<10			10	2/6/2014	RUF EPA18
Trichloroethene	<10	<10	<10			10	2/6/2014	RUF EPA18
TRPH (Based on Benzene)	700	695.524				100	2/6/2014	RUF EPA18
Vinyl chloride	<10	<10	<10			10	2/6/2014	RUF EPA18

Qualifiers:

< Less than the indicated limit of detection (LOD)

H Holding time for preparation or analysis

B Analyte detected in the associated Method Blank

(a) Analysis indicates possible breakthrough; back section result is greater than

10 % of the front section result.

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Arcadis

Work Order Number 1402525

Checklist completed by [Signature] Date 2.6.14

Carrier name: FedEx UPS Courier Client US Mail Other

Shipping container/cooler in good condition? Yes No Not Present

Custody seals intact on shipping container/cooler? Yes No Not Present

Custody seals intact on sample bottles? Yes No Not Present

Container/Temp Blank temperature in compliance? ^{As 2.6.14} (4°C±2)* Yes No

Cooler #1 Andrew Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present? Yes No

Chain of custody signed when relinquished and received? Yes No

Chain of custody agrees with sample labels? Yes No

Samples in proper container/bottle? Yes No

Sample containers intact? Yes No

Sufficient sample volume for indicated test? Yes No

All samples received within holding time? Yes No

Was TAT marked on the COC? Yes No

Proceed with Standard TAT as per project history? Yes No Not Applicable

Water - VOA vials have zero headspace? No VOA vials submitted Yes No

Water - pH acceptable upon receipt? Yes No Not Applicable

Adjusted? _____ Checked by _____

Sample Condition: Good Other(Explain) _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes No

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

Client: Arcadis
Project: Lafarge East Point Air Sparge
Lab Order: 1402525

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1402525-001A	SVE_GAC_INF_020614_	2/6/2014 1:53:00PM	Air	Aromatic Volatiles in Air		02/06/2014	02/07/2014
1402525-001A	SVE_GAC_INF_020614_	2/6/2014 1:53:00PM	Air	Chlorinated Volatiles in Air		02/06/2014	02/07/2014
1402525-001A	SVE_GAC_INF_020614_	2/6/2014 1:53:00PM	Air	Volatile Hydrocarbons in Air		02/06/2014	02/07/2014
1402525-002A	SVE_GAC_MID_020614_	2/6/2014 1:57:00PM	Air	Aromatic Volatiles in Air		02/06/2014	02/07/2014
1402525-002A	SVE_GAC_MID_020614_	2/6/2014 1:57:00PM	Air	Chlorinated Volatiles in Air		02/06/2014	02/07/2014
1402525-002A	SVE_GAC_MID_020614_	2/6/2014 1:57:00PM	Air	Volatile Hydrocarbons in Air		02/06/2014	02/07/2014
1402525-003A	SVE_GAC_EFF_020614_	2/6/2014 2:00:00PM	Air	Aromatic Volatiles in Air		02/06/2014	02/06/2014
1402525-003A	SVE_GAC_EFF_020614_	2/6/2014 2:00:00PM	Air	Chlorinated Volatiles in Air		02/06/2014	02/06/2014
1402525-003A	SVE_GAC_EFF_020614_	2/6/2014 2:00:00PM	Air	Volatile Hydrocarbons in Air		02/06/2014	02/06/2014

Client: Arcadis
Project Name: Lafarge East Point Air Sparge
Workorder: 1402525

ANALYTICAL QC SUMMARY REPORT

BatchID: 186751

Sample ID: MB-186751	Client ID:	Units: ug, Total	Prep Date: 02/06/2014	Run No: 260848							
SampleType: MBLK	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 186751	Analysis Date: 02/06/2014	Seq No: 5482937							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane
 1,1-Dichloroethene
 Carbon tetrachloride
 Chloroform
 cis-1,2-Dichloroethene
 Freon 141B
 Methylene chloride
 Tetrachloroethene
 trans-1,2-Dichloroethene
 Trichloroethene
 Vinyl chloride

BRL
 BRL

10
 10
 10
 10
 10
 10
 10
 10
 10
 10
 10

Sample ID: MB-186751	Client ID:	Units: ug, Total	Prep Date: 02/06/2014	Run No: 260849							
SampleType: MBLK	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 186751	Analysis Date: 02/06/2014	Seq No: 5482965							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2-Butanone
 4-Methyl-2-pentanone
 Acetone
 Diethyl ether
 n-Heptane
 n-Hexane

BRL
 BRL
 BRL
 BRL
 BRL
 BRL

10
 10
 10
 10
 10
 10

Sample ID: MB-186751	Client ID:	Units: ug, Total	Prep Date: 02/06/2014	Run No: 260850							
SampleType: MBLK	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 186751	Analysis Date: 02/06/2014	Seq No: 5482996							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene

BRL
 10

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Arcadis
Project Name: Lafarge East Point Air Sparge
Workorder: 1402525

ANALYTICAL QC SUMMARY REPORT

BatchID: 186751

Sample ID: MB-186751	Client ID:	Units: ug, Total	Prep Date: 02/06/2014	Run No: 260850							
SampleType: MBLK	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 186751	Analysis Date: 02/06/2014	Seq No: 5482996							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethylbenzene
m,p-Xylene
Methyl tert-butyl ether
Naphthalene
o-Xylene
Toluene
TRPH (Based on Benzene)

BRL
BRL
BRL
BRL
BRL
BRL
BRL

10
20
10
10
10
10
100

Sample ID: LCS-186751	Client ID:	Units: ug, Total	Prep Date: 02/06/2014	Run No: 260848							
SampleType: LCS	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 186751	Analysis Date: 02/06/2014	Seq No: 5482938							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane
Carbon tetrachloride
Chloroform
Methylene chloride
Tetrachloroethene
Trichloroethene

105.2
109.0
104.0
105.4
103.4
105.8

10
10
10
10
10
10

100.0
100.0
100.0
100.0
100.0
100.0

105
109
104
105
103
106

85
85
83.2
85
85
85

120
126
120
126
118
122

Sample ID: LCS-186751	Client ID:	Units: ug, Total	Prep Date: 02/06/2014	Run No: 260849							
SampleType: LCS	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 186751	Analysis Date: 02/06/2014	Seq No: 5482966							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2-Butanone
4-Methyl-2-pentanone
Acetone
Diethyl ether
n-Heptane

93.46
99.44
83.11
102.7
106.1

10
10
10
10
10

100.0
100.0
100.0
100.0
100.0

93.5
99.4
83.1
103
106

74.2
81.5
70.1
79.9
87

120
120
120
120
121

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
BRL	Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S Spike Recovery outside limits due to matrix	

Client: Arcadis
Project Name: Lafarge East Point Air Sparge
Workorder: 1402525

ANALYTICAL QC SUMMARY REPORT

BatchID: 186751

Sample ID: LCS-186751	Client ID:	Units: ug, Total	Prep Date: 02/06/2014	Run No: 260849							
SampleType: LCS	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 186751	Analysis Date: 02/06/2014	Seq No: 5482966							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

n-Hexane 108.7 10 100.0 109 87.1 123

Sample ID: LCS-186751	Client ID:	Units: ug, Total	Prep Date: 02/06/2014	Run No: 260850							
SampleType: LCS	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 186751	Analysis Date: 02/06/2014	Seq No: 5482998							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene 106.1 10 100.0 106 76 123
 Ethylbenzene 108.2 10 100.0 108 80.2 124
 m,p-Xylene 213.4 20 200.0 107 78 123
 Methyl tert-butyl ether 87.45 10 100.0 87.4 71 120
 Naphthalene 50.27 10 100.0 50.3 34.4 100
 o-Xylene 101.7 10 100.0 102 78 118
 Toluene 104.9 10 100.0 105 78.3 121

Sample ID: LCS-186751-2	Client ID:	Units: ug, Total	Prep Date: 02/06/2014	Run No: 260848							
SampleType: LCS	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 186751	Analysis Date: 02/06/2014	Seq No: 5482946							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene 102.2 10 100.0 102 83.6 119
 cis-1,2-Dichloroethene 107.0 10 100.0 107 84.2 123
 trans-1,2-Dichloroethene 108.6 10 100.0 109 85 120

Sample ID: LCS-186751-3	Client ID:	Units: ug, Total	Prep Date: 02/06/2014	Run No: 260848							
SampleType: LCS	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 186751	Analysis Date: 02/06/2014	Seq No: 5482942							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Vinyl chloride 23.28 10 25.00 93.1 60.4 121

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Arcadis
Project Name: Lafarge East Point Air Sparge
Workorder: 1402525

ANALYTICAL QC SUMMARY REPORT

BatchID: 186751

Sample ID: LCSD-186751	Client ID:	Units: ug, Total	Prep Date: 02/06/2014	Run No: 260848							
SampleType: LCSD	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 186751	Analysis Date: 02/06/2014	Seq No: 5482940							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	104.1	10	100.0		104	85	120	105.2	1.04	15	
Carbon tetrachloride	108.5	10	100.0		109	85	126	109.0	0.428	15	
Chloroform	102.9	10	100.0		103	83.2	120	104.0	1.05	15	
Methylene chloride	104.2	10	100.0		104	85	126	105.4	1.11	15	
Tetrachloroethene	101.8	10	100.0		102	85	118	103.4	1.55	15	
Trichloroethene	104.4	10	100.0		104	85	122	105.8	1.34	15	

Sample ID: LCSD-186751	Client ID:	Units: ug, Total	Prep Date: 02/06/2014	Run No: 260849							
SampleType: LCSD	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 186751	Analysis Date: 02/06/2014	Seq No: 5482967							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2-Butanone	92.57	10	100.0		92.6	74.2	120	93.46	0.959	15	
4-Methyl-2-pentanone	98.36	10	100.0		98.4	81.5	120	99.44	1.08	15	
Acetone	82.39	10	100.0		82.4	70.1	120	83.11	0.871	15	
Diethyl ether	101.2	10	100.0		101	79.9	120	102.7	1.46	15	
n-Heptane	104.9	10	100.0		105	87	121	106.1	1.11	15	
n-Hexane	107.4	10	100.0		107	87.1	123	108.7	1.24	15	

Sample ID: LCSD-186751	Client ID:	Units: ug, Total	Prep Date: 02/06/2014	Run No: 260850							
SampleType: LCSD	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 186751	Analysis Date: 02/06/2014	Seq No: 5482999							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene	104.8	10	100.0		105	76	123	106.1	1.18	15	
Ethylbenzene	107.0	10	100.0		107	80.2	124	108.2	1.13	15	
m,p-Xylene	210.7	20	200.0		105	78	123	213.4	1.26	15	
Methyl tert-butyl ether	86.41	10	100.0		86.4	71	120	87.45	1.19	15	
Naphthalene	48.63	10	100.0		48.6	34.4	100	50.27	3.32	15	
o-Xylene	100.3	10	100.0		100	78	118	101.7	1.31	15	

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Arcadis
Project Name: Lafarge East Point Air Sparge
Workorder: 1402525

ANALYTICAL QC SUMMARY REPORT

BatchID: 186751

Sample ID: LCSD-186751	Client ID:	Units: ug, Total	Prep Date: 02/06/2014	Run No: 260850							
SampleType: LCSD	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 186751	Analysis Date: 02/06/2014	Seq No: 5482999							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Toluene	103.7	10	100.0		104	78.3	121	104.9	1.16	15	
---------	-------	----	-------	--	-----	------	-----	-------	------	----	--

Sample ID: LCSD-186751-2	Client ID:	Units: ug, Total	Prep Date: 02/06/2014	Run No: 260848							
SampleType: LCSD	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 186751	Analysis Date: 02/06/2014	Seq No: 5482947							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	100.9	10	100.0		101	83.6	119	102.2	1.36	15	
cis-1,2-Dichloroethene	106.0	10	100.0		106	84.2	123	107.0	0.905	15	
trans-1,2-Dichloroethene	107.2	10	100.0		107	85	120	108.6	1.27	15	

Sample ID: LCSD-186751-3	Client ID:	Units: ug, Total	Prep Date: 02/06/2014	Run No: 260848							
SampleType: LCSD	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 186751	Analysis Date: 02/06/2014	Seq No: 5482944							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Vinyl chloride	23.25	10	25.00		93.0	60.4	121	23.28	0.150	19.2	
----------------	-------	----	-------	--	------	------	-----	-------	-------	------	--

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
BRL	Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S Spike Recovery outside limits due to matrix	



March 11, 2014

Peter Cornais
Arcadis
2081 Vista Parkway, Suite 200
West Palm Beach FL 33411

TEL: (850) 445-0829
FAX:

RE: Lafarge East Point Air Sparge

Dear Peter Cornais:

Order No: 1403366

Analytical Environmental Services, Inc. received 4 samples on 3/6/2014 9:25:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/13-06/30/14.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/15.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Chantelle Kanhai
Project Manager

CHAIN OF CUSTODY

ANALYTICAL ENVIRONMENTAL SERVICES, INC
 3080 Presidential Drive, Atlanta GA 30340-3704
AES TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

COMPANY: Arcadis
ADDRESS: 1000 Cobb Place Blvd Building 5200A Kennesaw, GA 30144
PHONE: 770 4289009 **FAX:** 770-428-4004
SAMPLED BY: Ivan Jenkins **SIGNATURE:** *Ivan Jenkins*

ANALYSIS REQUESTED

Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.

REMARKS

No # of Containers: **4**

PROJECT INFORMATION

PROJECT NAME: *La Forge East*
 HT 212 446.0041.0000 Z Point Air Sparge
 PROJECT #: *HT212 446.0041.0000*
 SITE ADDRESS: *2675 N. Martin ST East Point, GA*
 SEND REPORT TO: *petecarnois@arcadis-us.com*
 INVOICE TO: (IF DIFFERENT FROM ABOVE)
 QUOTE #:

Turnaround Time Request:
 Standard 5 Business Days
 2 Business Day Rush
 Next Business Day Rush
 Same Day Rush (auth req.)
 Other

STATE PROGRAM (if any):
 E-mail? Y/N; Fax? Y/N
 DATA PACKAGE: I II III IV

Total # of Containers: **4**

#	SAMPLE ID	SAMPLED		Grab	Composite	Matrix (See codes)	DATE/TIME	RECEIVED BY	DATE/TIME	RELINQUISHED BY
		DATE	TIME							
1	<i>SVE - GAC - EFF (030514)</i>	<i>3-5-14</i>	<i>1608</i>	<i>-</i>		<i>A</i>		<i>Latoya R</i>	<i>3/6/14 9:25 a</i>	<i>Ivan Jenkins</i>
2	<i>SVE - GAC - INF (030514)</i>	<i>3-5-14</i>	<i>1613</i>	<i>-</i>		<i>A</i>				
3	<i>SVE - ZONE - 1 (030514)</i>	<i>3-5-14</i>	<i>1630</i>	<i>-</i>		<i>A</i>				
4	<i>SVE - ZONE - 2 (030514)</i>	<i>3-5-14</i>	<i>1634</i>	<i>-</i>		<i>A</i>				
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD: OUT / / VIA: IN / / VIA: CLIENT FedEx UPS MAIL COURIER OTHER: *GREYHOUND*

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES. SAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMPLETION UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water
PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client

Analytical Results

for

Arcadis

Date: 12-Mar-14

Workorder: 1403366

Client Reference: Lafarge East Point Air Sparge

Analyte	Concentration					Limit of Detection (ug)	Qual	Date Analyzed /Analyst	Test Method
	Total (ug)	Front (ug)	Back (ug)	(mg/m3)	(ppm)				
Client ID: SVE_GAC_EFF (030514)	Lab ID: 1403366-001A		Date Sampled: 3/5/2014		Media: Tedlar Bag	Air Vol.(L): 1			
Acetone	<10	<10	<10	<10	<4.2	10	3/6/2014	RUF	EPA18
1,1,1-Trichloroethane	<10	<10	<10	<10	<1.8	10	3/6/2014	RUF	EPA18
1,1-Dichloroethene	<10	<10	<10	<10	<2.5	10	3/6/2014	RUF	EPA18
2-Butanone	<10	<10	<10	<10	<3.4	10	3/6/2014	RUF	EPA18
4-Methyl-2-pentanone	<10	<10	<10	<10	<2.4	10	3/6/2014	RUF	EPA18
Benzene	<10	<10	<10	<10	<3.1	10	3/6/2014	RUF	EPA18
Carbon tetrachloride	<10	<10	<10	<10	<1.6	10	3/6/2014	RUF	EPA18
Chloroform	<10	<10	<10	<10	<2.0	10	3/6/2014	RUF	EPA18
cis-1,2-Dichloroethene	<10	<10	<10	<10	<2.5	10	3/6/2014	RUF	EPA18
Diethyl ether	<10	<10	<10	<10	<3.3	10	3/6/2014	RUF	EPA18
Ethylbenzene	<10	<10	<10	<10	<2.3	10	3/6/2014	RUF	EPA18
Freon 141B	<10	<10	<10	<10	<2.1	10	3/6/2014	RUF	EPA18
m,p-Xylene	<20	<20	<20	<20	<4.6	20	3/6/2014	RUF	EPA18
Methyl tert-butyl ether	<10	<10	<10	<10	<2.8	10	3/6/2014	RUF	EPA18
Methylene chloride	<10	<10	<10	<10	<2.9	10	3/6/2014	RUF	EPA18
n-Heptane	<10	<10	<10	<10	<2.4	10	3/6/2014	RUF	EPA18
n-Hexane	<10	<10	<10	<10	<2.8	10	3/6/2014	RUF	EPA18
Naphthalene	<10	<10	<10	<10	<1.9	10	3/6/2014	RUF	EPA18
o-Xylene	<10	<10	<10	<10	<2.3	10	3/6/2014	RUF	EPA18
Tetrachloroethene	<10	<10	<10	<10	<1.5	10	3/6/2014	RUF	EPA18
Toluene	<10	<10	<10	<10	<2.6	10	3/6/2014	RUF	EPA18
trans-1,2-Dichloroethene	<10	<10	<10	<10	<2.5	10	3/6/2014	RUF	EPA18
Trichloroethene	<10	<10	<10	<10	<1.9	10	3/6/2014	RUF	EPA18
TRPH (Based on Benzene)	<100	<100	<100	<100	<31	100	3/6/2014	RUF	EPA18
Vinyl chloride	<10	<10	<10	<10	<3.9	10	3/6/2014	RUF	EPA18

Client ID: SVE_GAC_INF (030514)	Lab ID: 1403366-002A		Date Sampled: 3/5/2014		Media: Tedlar Bag	Air Vol.(L): 1			
1,1,1-Trichloroethane	<10	<10	<10	<10	<1.8	10	3/6/2014	RUF	EPA18
1,1-Dichloroethene	<10	<10	<10	<10	<2.5	10	3/6/2014	RUF	EPA18
2-Butanone	<10	<10	<10	<10	<3.4	10	3/6/2014	RUF	EPA18
4-Methyl-2-pentanone	<10	<10	<10	<10	<2.4	10	3/6/2014	RUF	EPA18
Acetone	<10	<10	<10	<10	<4.2	10	3/6/2014	RUF	EPA18
Benzene	<10	<10	<10	<10	<3.1	10	3/6/2014	RUF	EPA18
Carbon tetrachloride	<10	<10	<10	<10	<1.6	10	3/6/2014	RUF	EPA18
Chloroform	<10	<10	<10	<10	<2.0	10	3/6/2014	RUF	EPA18
cis-1,2-Dichloroethene	<10	<10	<10	<10	<2.5	10	3/6/2014	RUF	EPA18
Diethyl ether	<10	<10	<10	<10	<3.3	10	3/6/2014	RUF	EPA18
Ethylbenzene	42	42.49	<10	42	9.8	10	3/6/2014	RUF	EPA18
Freon 141B	<10	<10	<10	<10	<2.1	10	3/6/2014	RUF	EPA18

Qualifiers:

< Less than the indicated limit of detection (LOD)

H Holding time for preparation or analysis

B Analyte detected in the associated Method Blank

(a) Analysis indicates possible breakthrough; back section result is greater than

10 % of the front section result.

Analytical Results

for

Arcadis

Date: 12-Mar-14

Workorder: 1403366

Client Reference: Lafarge East Point Air Sparge

Analyte	Concentration					Limit of Detection (ug)	Qual	Date Analyzed	Test Method
	Total (ug)	Front (ug)	Back (ug)	(mg/m3)	(ppm)				
m,p-Xylene	140	144.18	<20	140	33	20	3/6/2014	RUF EPA18	
Methyl tert-butyl ether	<10	<10	<10	<10	<2.8	10	3/6/2014	RUF EPA18	
Methylene chloride	<10	<10	<10	<10	<2.9	10	3/6/2014	RUF EPA18	
n-Heptane	200	202.38	<10	200	49	10	3/6/2014	RUF EPA18	
n-Hexane	330	326.249	<10	330	93	10	3/6/2014	RUF EPA18	
Naphthalene	<10	<10	<10	<10	<1.9	10	3/6/2014	RUF EPA18	
o-Xylene	26	25.761	<10	26	5.9	10	3/6/2014	RUF EPA18	
Tetrachloroethene	<10	<10	<10	<10	<1.5	10	3/6/2014	RUF EPA18	
Toluene	580	584.32	<10	580	160	10	3/6/2014	RUF EPA18	
trans-1,2-Dichloroethene	<10	<10	<10	<10	<2.5	10	3/6/2014	RUF EPA18	
Trichloroethene	54	53.716	<10	54	10	10	3/6/2014	RUF EPA18	
TRPH (Based on Benzene)	2800	2752.07	<100	2800	860	100	3/6/2014	RUF EPA18	
Vinyl chloride	<10	<10	<10	<10	<3.9	10	3/6/2014	RUF EPA18	

Client ID: SVE_ZONE-1 (030514) **Lab ID:** 1403366-003A **Date Sampled:** 3/5/2014 **Media:** **Air Vol.(L):** 0

1,1,1-Trichloroethane	<10	<10	<10			10	3/6/2014	RUF EPA18
1,1-Dichloroethene	<10	<10	<10			10	3/6/2014	RUF EPA18
2-Butanone	<10	<10	<10			10	3/6/2014	RUF EPA18
4-Methyl-2-pentanone	<10	<10	<10			10	3/6/2014	RUF EPA18
Acetone	<10	<10	<10			10	3/6/2014	RUF EPA18
Benzene	<10	<10	<10			10	3/6/2014	RUF EPA18
Carbon tetrachloride	<10	<10	<10			10	3/6/2014	RUF EPA18
Chloroform	<10	<10	<10			10	3/6/2014	RUF EPA18
cis-1,2-Dichloroethene	14	13.676				10	3/6/2014	RUF EPA18
Diethyl ether	<10	<10	<10			10	3/6/2014	RUF EPA18
Ethylbenzene	14	14.101				10	3/6/2014	RUF EPA18
Freon 141B	<10	<10	<10			10	3/6/2014	RUF EPA18
m,p-Xylene	60	59.996				20	3/6/2014	RUF EPA18
Methyl tert-butyl ether	<10	<10	<10			10	3/6/2014	RUF EPA18
Methylene chloride	<10	<10	<10			10	3/6/2014	RUF EPA18
n-Heptane	48	48.008				10	3/6/2014	RUF EPA18
n-Hexane	35	35.448				10	3/6/2014	RUF EPA18
Naphthalene	<10	<10	<10			10	3/6/2014	RUF EPA18
o-Xylene	12	11.791				10	3/6/2014	RUF EPA18
Tetrachloroethene	<10	<10	<10			10	3/6/2014	RUF EPA18
Toluene	100	103.514				10	3/6/2014	RUF EPA18
trans-1,2-Dichloroethene	<10	<10	<10			10	3/6/2014	RUF EPA18
Trichloroethene	19	18.718				10	3/6/2014	RUF EPA18
TRPH (Based on Benzene)	930	926.407				100	3/6/2014	RUF EPA18
Vinyl chloride	<10	<10	<10			10	3/6/2014	RUF EPA18

Qualifiers:

< Less than the indicated limit of detection (LOD)

H Holding time for preparation or analysis

B Analyte detected in the associated Method Blank

(a) Analysis indicates possible breakthrough; back section result is greater than

10 % of the front section result.

Analytical Results

for

Arcadis

Date: 12-Mar-14

Workorder: 1403366

Client Reference: Lafarge East Point Air Sparge

Analyte	Concentration					Limit of Detection (ug)	Qual	Date Analyzed /Analyst	Test Method
	Total (ug)	Front (ug)	Back (ug)	(mg/m3)	(ppm)				
Client ID: SVE_ZONE-2 (030514) Lab ID: 1403366-004A Date Sampled: 3/5/2014 Media: Air Vol.(L): 0									
1,1,1-Trichloroethane	<10	<10	<10			10		3/6/2014	RUF EPA18
1,1-Dichloroethene	<10	<10	<10			10		3/6/2014	RUF EPA18
2-Butanone	<10	<10	<10			10		3/6/2014	RUF EPA18
4-Methyl-2-pentanone	<10	<10	<10			10		3/6/2014	RUF EPA18
Acetone	<10	<10	<10			10		3/6/2014	RUF EPA18
Benzene	<10	<10	<10			10		3/6/2014	RUF EPA18
Carbon tetrachloride	<10	<10	<10			10		3/6/2014	RUF EPA18
Chloroform	<10	<10	<10			10		3/6/2014	RUF EPA18
cis-1,2-Dichloroethene	11	10.791				10		3/6/2014	RUF EPA18
Diethyl ether	<10	<10	<10			10		3/6/2014	RUF EPA18
Ethylbenzene	120	122.884				10		3/6/2014	RUF EPA18
Freon 141B	<10	<10	<10			10		3/6/2014	RUF EPA18
m,p-Xylene	410	406.253				20		3/6/2014	RUF EPA18
Methyl tert-butyl ether	<10	<10	<10			10		3/6/2014	RUF EPA18
Methylene chloride	<10	<10	<10			10		3/6/2014	RUF EPA18
n-Heptane	600	599.484				10		3/6/2014	RUF EPA18
n-Hexane	1000	1020.53				10		3/6/2014	RUF EPA18
Naphthalene	<10	<10	<10			10		3/6/2014	RUF EPA18
o-Xylene	71	70.597				10		3/6/2014	RUF EPA18
Tetrachloroethene	<10	<10	<10			10		3/6/2014	RUF EPA18
Toluene	1800	1764.5				10		3/6/2014	RUF EPA18
trans-1,2-Dichloroethene	<10	<10	<10			10		3/6/2014	RUF EPA18
Trichloroethene	140	135.884				10		3/6/2014	RUF EPA18
TRPH (Based on Benzene)	7700	7660.28				100		3/6/2014	RUF EPA18
Vinyl chloride	<10	<10	<10			10		3/6/2014	RUF EPA18

Qualifiers:

< Less than the indicated limit of detection (LOD)

H Holding time for preparation or analysis

B Analyte detected in the associated Method Blank

(a) Analysis indicates possible breakthrough; back section result is greater than

10 % of the front section result.

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Arcais

Work Order Number 1403366

Checklist completed by [Signature] Date 3.6.14
Signature Date

Carrier name: FedEx UPS Courier Client US Mail Other

Shipping container/cooler in good condition? Yes No Not Present

Custody seals intact on shipping container/cooler? Yes No Not Present

Custody seals intact on sample bottles? Yes No Not Present 3.6.14

Container/Temp Blank temperature in compliance? (4°C±2)* Yes No

Cooler #1 Arcais Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler #5 _____ Cooler #6 _____

Chain of custody present? Yes No

Chain of custody signed when relinquished and received? Yes No

Chain of custody agrees with sample labels? Yes No

Samples in proper container/bottle? Yes No

Sample containers intact? Yes No

Sufficient sample volume for indicated test? Yes No

All samples received within holding time? Yes No

Was TAT marked on the COC? Yes No

Proceed with Standard TAT as per project history? Yes No Not Applicable

Water - VOA vials have zero headspace? No VOA vials submitted Yes No

Water - pH acceptable upon receipt? Yes No Not Applicable

Adjusted? _____ Checked by _____

Sample Condition: Good Other(Explain) _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes No

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

Client: Arcadis
Project: Lafarge East Point Air Sparge
Lab Order: 1403366

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1403366-001A	SVE_GAC_EFF (030514)	3/5/2014 4:08:00PM	Air	Aromatic Volatiles in Air		03/06/2014	03/06/2014
1403366-001A	SVE_GAC_EFF (030514)	3/5/2014 4:08:00PM	Air	Chlorinated Volatiles in Air		03/06/2014	03/06/2014
1403366-001A	SVE_GAC_EFF (030514)	3/5/2014 4:08:00PM	Air	Volatile Hydrocarbons in Air		03/06/2014	03/06/2014
1403366-002A	SVE_GAC_INF (030514)	3/5/2014 4:13:00PM	Air	Aromatic Volatiles in Air		03/06/2014	03/06/2014
1403366-002A	SVE_GAC_INF (030514)	3/5/2014 4:13:00PM	Air	Chlorinated Volatiles in Air		03/06/2014	03/06/2014
1403366-002A	SVE_GAC_INF (030514)	3/5/2014 4:13:00PM	Air	Volatile Hydrocarbons in Air		03/06/2014	03/06/2014
1403366-003A	SVE_ZONE-1 (030514)	3/5/2014 4:30:00PM	Air	Aromatic Volatiles in Air		03/06/2014	03/06/2014
1403366-003A	SVE_ZONE-1 (030514)	3/5/2014 4:30:00PM	Air	Chlorinated Volatiles in Air		03/06/2014	03/06/2014
1403366-003A	SVE_ZONE-1 (030514)	3/5/2014 4:30:00PM	Air	Volatile Hydrocarbons in Air		03/06/2014	03/06/2014
1403366-004A	SVE_ZONE-2 (030514)	3/5/2014 4:34:00PM	Air	Aromatic Volatiles in Air		03/06/2014	03/06/2014
1403366-004A	SVE_ZONE-2 (030514)	3/5/2014 4:34:00PM	Air	Chlorinated Volatiles in Air		03/06/2014	03/06/2014
1403366-004A	SVE_ZONE-2 (030514)	3/5/2014 4:34:00PM	Air	Volatile Hydrocarbons in Air		03/06/2014	03/06/2014

Client: Arcadis
 Project Name: Lafarge East Point Air Sparge
 Workorder: 1403366

ANALYTICAL QC SUMMARY REPORT

BatchID: 187890

Sample ID: MB-187890	Client ID:	Units: ug, Total	Prep Date: 03/05/2014	Run No: 262731							
SampleType: MBLK	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 187890	Analysis Date: 03/06/2014	Seq No: 5524607							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane
 1,1-Dichloroethene
 Carbon tetrachloride
 Chloroform
 cis-1,2-Dichloroethene
 Freon 141B
 Methylene chloride
 Tetrachloroethene
 trans-1,2-Dichloroethene
 Trichloroethene
 Vinyl chloride

BRL
 BRL

10
 10
 10
 10
 10
 10
 10
 10
 10
 10
 10

Sample ID: MB-187890	Client ID:	Units: ug, Total	Prep Date: 03/05/2014	Run No: 262732							
SampleType: MBLK	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 187890	Analysis Date: 03/06/2014	Seq No: 5524741							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2-Butanone
 4-Methyl-2-pentanone
 Acetone
 Diethyl ether
 n-Heptane
 n-Hexane

BRL
 BRL
 BRL
 BRL
 BRL
 BRL

10
 10
 10
 10
 10
 10

Sample ID: MB-187890	Client ID:	Units: ug, Total	Prep Date: 03/05/2014	Run No: 262733							
SampleType: MBLK	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 187890	Analysis Date: 03/06/2014	Seq No: 5524768							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene

BRL
 10

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Arcadis
Project Name: Lafarge East Point Air Sparge
Workorder: 1403366

ANALYTICAL QC SUMMARY REPORT

BatchID: 187890

Sample ID: MB-187890	Client ID:	Units: ug, Total	Prep Date: 03/05/2014	Run No: 262733							
SampleType: MBLK	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 187890	Analysis Date: 03/06/2014	Seq No: 5524768							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethylbenzene
m,p-Xylene
Methyl tert-butyl ether
Naphthalene
o-Xylene
Toluene
TRPH (Based on Benzene)

BRL
BRL
BRL
BRL
BRL
BRL
BRL

10
20
10
10
10
10
100

Sample ID: LCS-187890	Client ID:	Units: ug, Total	Prep Date: 03/05/2014	Run No: 262731							
SampleType: LCS	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 187890	Analysis Date: 03/06/2014	Seq No: 5524609							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane
Carbon tetrachloride
Chloroform
Methylene chloride
Tetrachloroethene
Trichloroethene

106.5
110.5
105.5
108.1
104.5
110.1

10
10
10
10
10
10

100.0
100.0
100.0
100.0
100.0
100.0

107
110
106
108
104
110

85
85
83.2
85
85
85

120
126
120
126
118
122

Sample ID: LCS-187890	Client ID:	Units: ug, Total	Prep Date: 03/05/2014	Run No: 262732							
SampleType: LCS	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 187890	Analysis Date: 03/06/2014	Seq No: 5524742							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2-Butanone
4-Methyl-2-pentanone
Acetone
Diethyl ether
n-Heptane

96.46
100.5
87.73
104.1
107.3

10
10
10
10
10

100.0
100.0
100.0
100.0
100.0

96.5
101
87.7
104
107

74.2
81.5
70.1
79.9
87

120
120
120
120
121

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	

Client: Arcadis
Project Name: Lafarge East Point Air Sparge
Workorder: 1403366

ANALYTICAL QC SUMMARY REPORT

BatchID: 187890

Sample ID: LCS-187890	Client ID:	Units: ug, Total	Prep Date: 03/05/2014	Run No: 262732							
SampleType: LCS	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 187890	Analysis Date: 03/06/2014	Seq No: 5524742							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

n-Hexane 109.8 10 100.0 110 87.1 123

Sample ID: LCS-187890	Client ID:	Units: ug, Total	Prep Date: 03/05/2014	Run No: 262733							
SampleType: LCS	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 187890	Analysis Date: 03/06/2014	Seq No: 5524770							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene 107.2 10 100.0 107 76 123
 Ethylbenzene 106.3 10 100.0 106 80.2 124
 m,p-Xylene 209.7 20 200.0 105 78 123
 Methyl tert-butyl ether 88.74 10 100.0 88.7 71 120
 Naphthalene 46.82 10 100.0 46.8 34.4 100
 o-Xylene 99.22 10 100.0 99.2 78 118
 Toluene 105.1 10 100.0 105 78.3 121

Sample ID: LCS-187890-2	Client ID:	Units: ug, Total	Prep Date: 03/05/2014	Run No: 262731							
SampleType: LCS	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 187890	Analysis Date: 03/06/2014	Seq No: 5524617							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene 104.9 10 100.0 105 83.6 119
 cis-1,2-Dichloroethene 107.9 10 100.0 108 84.2 123
 trans-1,2-Dichloroethene 108.1 10 100.0 108 85 120

Sample ID: LCS-187890-3	Client ID:	Units: ug, Total	Prep Date: 03/05/2014	Run No: 262731							
SampleType: LCS	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 187890	Analysis Date: 03/06/2014	Seq No: 5524614							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Vinyl chloride 22.03 10 25.00 88.1 60.4 121

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Arcadis
Project Name: Lafarge East Point Air Sparge
Workorder: 1403366

ANALYTICAL QC SUMMARY REPORT**BatchID: 187890**

Sample ID: LCSD-187890	Client ID:	Units: ug, Total	Prep Date: 03/05/2014	Run No: 262731							
SampleType: LCSD	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 187890	Analysis Date: 03/06/2014	Seq No: 5524612							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	107.0	10	100.0		107	85	120	106.5	0.496	15	
Carbon tetrachloride	109.6	10	100.0		110	85	126	110.5	0.783	15	
Chloroform	106.1	10	100.0		106	83.2	120	105.5	0.593	15	
Methylene chloride	108.8	10	100.0		109	85	126	108.1	0.642	15	
Tetrachloroethene	104.9	10	100.0		105	85	118	104.5	0.363	15	
Trichloroethene	110.5	10	100.0		111	85	122	110.1	0.399	15	

Sample ID: LCSD-187890	Client ID:	Units: ug, Total	Prep Date: 03/05/2014	Run No: 262732							
SampleType: LCSD	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 187890	Analysis Date: 03/06/2014	Seq No: 5524744							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2-Butanone	96.51	10	100.0		96.5	74.2	120	96.46	0.055	15	
4-Methyl-2-pentanone	101.1	10	100.0		101	81.5	120	100.5	0.554	15	
Acetone	88.14	10	100.0		88.1	70.1	120	87.73	0.474	15	
Diethyl ether	104.6	10	100.0		105	79.9	120	104.1	0.539	15	
n-Heptane	108.1	10	100.0		108	87	121	107.3	0.708	15	
n-Hexane	111.0	10	100.0		111	87.1	123	109.8	1.08	15	

Sample ID: LCSD-187890	Client ID:	Units: ug, Total	Prep Date: 03/05/2014	Run No: 262733							
SampleType: LCSD	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 187890	Analysis Date: 03/06/2014	Seq No: 5524773							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene	107.9	10	100.0		108	76	123	107.2	0.665	15	
Ethylbenzene	106.4	10	100.0		106	80.2	124	106.3	0.075	15	
m,p-Xylene	209.8	20	200.0		105	78	123	209.7	0.022	15	
Methyl tert-butyl ether	89.94	10	100.0		89.9	71	120	88.74	1.34	15	
Naphthalene	46.15	10	100.0		46.1	34.4	100	46.82	1.45	15	
o-Xylene	99.07	10	100.0		99.1	78	118	99.22	0.154	15	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
Project Name: Lafarge East Point Air Sparge
Workorder: 1403366

ANALYTICAL QC SUMMARY REPORT

BatchID: 187890

Sample ID: LCSD-187890	Client ID:	Units: ug, Total	Prep Date: 03/05/2014	Run No: 262733							
SampleType: LCSD	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 187890	Analysis Date: 03/06/2014	Seq No: 5524773							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Toluene	105.8	10	100.0		106	78.3	121	105.1	0.622	15	
---------	-------	----	-------	--	-----	------	-----	-------	-------	----	--

Sample ID: LCSD-187890-2	Client ID:	Units: ug, Total	Prep Date: 03/05/2014	Run No: 262731							
SampleType: LCSD	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 187890	Analysis Date: 03/06/2014	Seq No: 5524619							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	104.0	10	100.0		104	83.6	119	104.9	0.841	15	
cis-1,2-Dichloroethene	108.1	10	100.0		108	84.2	123	107.9	0.190	15	
trans-1,2-Dichloroethene	108.1	10	100.0		108	85	120	108.1	0.056	15	

Sample ID: LCSD-187890-3	Client ID:	Units: ug, Total	Prep Date: 03/05/2014	Run No: 262731							
SampleType: LCSD	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 187890	Analysis Date: 03/06/2014	Seq No: 5524616							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Vinyl chloride	22.02	10	25.00		88.1	60.4	121	22.03	0.045	19.2	
----------------	-------	----	-------	--	------	------	-----	-------	-------	------	--

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
BRL	Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S Spike Recovery outside limits due to matrix	



April 01, 2014

Peter Cornais
Arcadis
2081 Vista Parkway, Suite 200
West Palm Beach FL 33411

TEL: (850) 445-0829
FAX:

RE: Lafarge AS/SVE Startup

Dear Peter Cornais:

Order No: 1403157

Analytical Environmental Services, Inc. received 2 samples on 3/21/2014 9:20:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/13-06/30/14.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/15.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Chantelle Kanhai
Project Manager

COMPANY: **Arcadis**

ADDRESS: **1000 Cobb Place Blvd
 Building 500A
 Kennesaw, GA 30144**

PHONE: **770 428 9009**
 FAX: **770 428 4804**

SAMPLED BY: **Ivan Jenkins**
 SIGNATURE: *Ivan Jenkins*

#	SAMPLE ID	DATE		Grab	Composite	Matrix (See codes)
		DATE	TIME			
1	SVE-GAC-INE(AS2014)	3-20-14	2014	-	-	Air
2	SVE-GAC-EEF(AS2014)	3-20-14	2014	-	-	Air
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						

RELINQUISHED BY: *Ivan Jenkins* DATE/TIME: **3/21/14 0920**
 RECEIVED BY: *[Signature]* DATE/TIME: **3/21/14 9:20**

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD: **OUT**
 VIA: **VIA**
 IN: **IN**
 GREYHOUND UPS MAIL COURIER

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES.
 SAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMPLETION UNLESS OTHER ARRANGEMENTS ARE MADE.

MAATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water
 PRESERVATIVE CODES: HH1 = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

ANALYSIS REQUESTED

TD-15

PRESERVATION (See codes)

Visit our website **www.aesatlanta.com** to check on the status of your results, place bottle orders, etc.

REMARKS

No # of Containers

PROJECT INFORMATION

PROJECT NAME: **HT212516.0013**
 PROJECT #: **Lafarge HS/SVE startup**
 SITE ADDRESS: **2495 N. Martha ST East Point GA**
 SEND REPORT TO: **petal.cornak@arcadisus.com**
 INVOICE TO: **(IF DIFFERENT FROM ABOVE)**

RECEIPT

- Turnaround Time Request
- Standard 5 Business Days
- 2 Business Day Rush
- Next Business Day Rush
- Same Day Rush (auth req)
- Other

STATE PROGRAM (if any):
 E-mail? Y/N, Fax? Y/N

DATA PACKAGE: I II III IV

Analytical Results

for

Arcadis

Date: 1-Apr-14

Workorder: 1403157

Client Reference: Lafarge AS/SVE Startup

Analyte	Concentration					Limit of Detection (ug)	Qual	Date Analyzed /Analyst	Test Method
	Total (ug)	Front (ug)	Back (ug)	(mg/m3)	(ppm)				
Client ID: SVE_GAC_INF (032014)	Lab ID: 1403157-001A		Date Sampled: 3/20/2014		Media:		Air Vol.(L): 0		
1,1,1-Trichloroethane	<10	<10	<10			10	3/24/2014	RUF	EPA18
1,1-Dichloroethene	<10	<10	<10			10	3/24/2014	RUF	EPA18
2-Butanone	<10	<10	<10			10	3/24/2014	RUF	EPA18
4-Methyl-2-pentanone	<10	<10	<10			10	3/24/2014	RUF	EPA18
Acetone	<10	<10	<10			10	3/24/2014	RUF	EPA18
Benzene	14	13.8				10	3/25/2014	RUF	EPA18
Carbon tetrachloride	<10	<10	<10			10	3/24/2014	RUF	EPA18
Chloroform	<10	<10	<10			10	3/24/2014	RUF	EPA18
cis-1,2-Dichloroethene	<10	<10	<10			10	3/24/2014	RUF	EPA18
Diethyl ether	<10	<10	<10			10	3/24/2014	RUF	EPA18
Ethylbenzene	62	62.34				10	3/24/2014	RUF	EPA18
Freon 141B	<10	<10	<10			10	3/24/2014	RUF	EPA18
m,p-Xylene	230	226.239				20	3/24/2014	RUF	EPA18
Methyl tert-butyl ether	<10	<10	<10			10	3/24/2014	RUF	EPA18
Methylene chloride	<10	<10	<10			10	3/24/2014	RUF	EPA18
n-Heptane	220	222.193				10	3/24/2014	RUF	EPA18
n-Hexane	330	331.811				10	3/24/2014	RUF	EPA18
Naphthalene	<10	<10	<10			10	3/24/2014	RUF	EPA18
o-Xylene	42	41.789				10	3/24/2014	RUF	EPA18
Tetrachloroethene	<10	<10	<10			10	3/24/2014	RUF	EPA18
Toluene	500	497.83				10	3/24/2014	RUF	EPA18
trans-1,2-Dichloroethene	<10	<10	<10			10	3/24/2014	RUF	EPA18
Trichloroethene	54	54.282				10	3/24/2014	RUF	EPA18
TRPH (Based on Benzene)	2900	2914.41				100	3/24/2014	RUF	EPA18
Vinyl chloride	<10	<10	<10			10	3/24/2014	RUF	EPA18

Client ID: SVE_GAC_EFF (032014)	Lab ID: 1403157-002A		Date Sampled: 3/20/2014		Media:		Air Vol.(L): 0		
1,1,1-Trichloroethane	<10	<10	<10			10	3/24/2014	RUF	EPA18
1,1-Dichloroethene	<10	<10	<10			10	3/24/2014	RUF	EPA18
2-Butanone	<10	<10	<10			10	3/24/2014	RUF	EPA18
4-Methyl-2-pentanone	<10	<10	<10			10	3/24/2014	RUF	EPA18
Acetone	<10	<10	<10			10	3/24/2014	RUF	EPA18
Benzene	<10	<10	<10			10	3/24/2014	RUF	EPA18
Carbon tetrachloride	<10	<10	<10			10	3/24/2014	RUF	EPA18
Chloroform	<10	<10	<10			10	3/24/2014	RUF	EPA18
cis-1,2-Dichloroethene	<10	<10	<10			10	3/24/2014	RUF	EPA18
Diethyl ether	<10	<10	<10			10	3/24/2014	RUF	EPA18
Ethylbenzene	<10	<10	<10			10	3/24/2014	RUF	EPA18
Freon 141B	<10	<10	<10			10	3/24/2014	RUF	EPA18

Qualifiers:

< Less than the indicated limit of detection (LOD)

H Holding time for preparation or analysis

B Analyte detected in the associated Method Blank

(a) Analysis indicates possible breakthrough; back section result is greater than

% of the front section result.

Analytical Results

for

Arcadis

Date: 1-Apr-14

Workorder: 1403157

Client Reference: Lafarge AS/SVE Startup

Analyte	Concentration					Limit of Detection (ug)	Qual	Date Analyzed	Test Method
	Total (ug)	Front (ug)	Back (ug)	(mg/m3)	(ppm)				
m,p-Xylene	<20	<20	<20			20		3/24/2014 RUF	EPA18
Methyl tert-butyl ether	<10	<10	<10			10		3/24/2014 RUF	EPA18
Methylene chloride	<10	<10	<10			10		3/24/2014 RUF	EPA18
n-Heptane	<10	<10	<10			10		3/24/2014 RUF	EPA18
n-Hexane	<10	<10	<10			10		3/24/2014 RUF	EPA18
Naphthalene	<10	<10	<10			10		3/24/2014 RUF	EPA18
o-Xylene	<10	<10	<10			10		3/24/2014 RUF	EPA18
Tetrachloroethene	<10	<10	<10			10		3/24/2014 RUF	EPA18
Toluene	<10	<10	<10			10		3/24/2014 RUF	EPA18
trans-1,2-Dichloroethene	<10	<10	<10			10		3/24/2014 RUF	EPA18
Trichloroethene	<10	<10	<10			10		3/24/2014 RUF	EPA18
TRPH (Based on Benzene)	<100	<100	<100			100		3/24/2014 RUF	EPA18
Vinyl chloride	<10	<10	<10			10		3/24/2014 RUF	EPA18

Qualifiers:

< Less than the indicated limit of detection (LOD)

H Holding time for preparation or analysis

B Analyte detected in the associated Method Blank

(a) Analysis indicates possible breakthrough; back section result is greater than

% of the front section result.

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Arcadis

Work Order Number 1403757

Checklist completed by [Signature] 3/21/14
Signature Date

Carrier name: FedEx UPS Courier Client US Mail Other

Shipping container/cooler in good condition? Yes No Not Present

Custody seals intact on shipping container/cooler? Yes No Not Present

Custody seals intact on sample bottles? Yes No Not Present

Container/Temp Blank temperature in compliance? ^{JB 3/21/14} ~~(#C=2)~~ Yes No

Cooler #1 Ambient Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present? Yes No

Chain of custody signed when relinquished and received? Yes No

Chain of custody agrees with sample labels? Yes No

Samples in proper container/bottle? Yes No

Sample containers intact? Yes No

Sufficient sample volume for indicated test? Yes No

All samples received within holding time? Yes No

Was TAT marked on the COC? Yes No

Proceed with Standard TAT as per project history? Yes No Not Applicable

Water - VOA vials have zero headspace? No VOA vials submitted Yes No

Water - pH acceptable upon receipt? Yes No Not Applicable

Adjusted? _____ Checked by _____

Sample Condition: Good Other(Explain) _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes No

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

Client: Arcadis
Project: HT212516.0013
Lab Order: 1403I57

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1403I57-001A	SVE-GAC-INF	3/20/2014 8:16:00PM	Air	Aromatic Volatiles in Air		03/21/2014	03/24/2014
1403I57-001A	SVE-GAC-INF	3/20/2014 8:16:00PM	Air	Aromatic Volatiles in Air		03/21/2014	03/25/2014
1403I57-001A	SVE-GAC-INF	3/20/2014 8:16:00PM	Air	Chlorinated Volatiles in Air		03/21/2014	03/24/2014
1403I57-001A	SVE-GAC-INF	3/20/2014 8:16:00PM	Air	Volatile Hydrocarbons in Air		03/21/2014	03/24/2014
1403I57-002A	SVE-GAC-EFF	3/20/2014 8:17:00PM	Air	Aromatic Volatiles in Air		03/21/2014	03/24/2014
1403I57-002A	SVE-GAC-EFF	3/20/2014 8:17:00PM	Air	Chlorinated Volatiles in Air		03/21/2014	03/24/2014
1403I57-002A	SVE-GAC-EFF	3/20/2014 8:17:00PM	Air	Volatile Hydrocarbons in Air		03/21/2014	03/24/2014

Client: Arcadis
 Project Name: Lafarge AS/SVE Startup
 Workorder: 1403157

ANALYTICAL QC SUMMARY REPORT

BatchID: 188663

Sample ID: MB-188663	Client ID:	Units: ug, Total	Prep Date: 03/21/2014	Run No: 264035							
SampleType: MBLK	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 188663	Analysis Date: 03/24/2014	Seq No: 5556588							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane
 1,1-Dichloroethene
 Carbon tetrachloride
 Chloroform
 cis-1,2-Dichloroethene
 Freon 141B
 Methylene chloride
 Tetrachloroethene
 trans-1,2-Dichloroethene
 Trichloroethene
 Vinyl chloride

BRL
 BRL

10
 10
 10
 10
 10
 10
 10
 10
 10
 10
 10
 10

Sample ID: MB-188663	Client ID:	Units: ug, Total	Prep Date: 03/21/2014	Run No: 264036							
SampleType: MBLK	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 188663	Analysis Date: 03/24/2014	Seq No: 5556663							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2-Butanone
 4-Methyl-2-pentanone
 Acetone
 Diethyl ether
 n-Heptane
 n-Hexane

BRL
 BRL
 BRL
 BRL
 BRL
 BRL

10
 10
 10
 10
 10
 10

Sample ID: MB-188663	Client ID:	Units: ug, Total	Prep Date: 03/21/2014	Run No: 264037							
SampleType: MBLK	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 188663	Analysis Date: 03/24/2014	Seq No: 5556739							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene

BRL
 10

Qualifiers:

- | | | |
|--|---|--|
| > Greater than Result value | < Less than Result value | B Analyte detected in the associated method blank |
| BRL Below reporting limit | E Estimated (value above quantitation range) | H Holding times for preparation or analysis exceeded |
| J Estimated value detected below Reporting Limit | N Analyte not NELAC certified | R RPD outside limits due to matrix |
| Rpt Lim Reporting Limit | S Spike Recovery outside limits due to matrix | |

Client: Arcadis
 Project Name: Lafarge AS/SVE Startup
 Workorder: 1403157

ANALYTICAL QC SUMMARY REPORT

BatchID: 188663

Sample ID: MB-188663	Client ID:	Units: ug, Total	Prep Date: 03/21/2014	Run No: 264037							
SampleType: MBLK	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 188663	Analysis Date: 03/24/2014	Seq No: 5556739							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethylbenzene
 m,p-Xylene
 Methyl tert-butyl ether
 Naphthalene
 o-Xylene
 Toluene
 TRPH (Based on Benzene)

BRL
 BRL
 BRL
 BRL
 BRL
 BRL
 BRL

10
 20
 10
 10
 10
 100

Sample ID: LCS-188663	Client ID:	Units: ug, Total	Prep Date: 03/21/2014	Run No: 264035							
SampleType: LCS	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 188663	Analysis Date: 03/24/2014	Seq No: 5556589							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane
 Carbon tetrachloride
 Chloroform
 Methylene chloride
 Tetrachloroethene
 Trichloroethene

100.9
 103.7
 99.69
 100.2
 98.15
 103.0

10
 10
 10
 10
 10
 10

100.0
 100.0
 100.0
 100.0
 100.0
 100.0

101
 104
 99.7
 100
 98.2
 103

85
 85
 83.2
 85
 85
 85

120
 126
 120
 126
 118
 122

Sample ID: LCS-188663	Client ID:	Units: ug, Total	Prep Date: 03/21/2014	Run No: 264036							
SampleType: LCS	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 188663	Analysis Date: 03/24/2014	Seq No: 5556664							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2-Butanone
 4-Methyl-2-pentanone
 Acetone
 Diethyl ether
 n-Heptane

91.74
 95.88
 82.55
 97.45
 101.4

10
 10
 10
 10
 10

100.0
 100.0
 100.0
 100.0
 100.0

91.7
 95.9
 82.5
 97.5
 101

74.2
 81.5
 70.1
 79.9
 87

120
 120
 120
 120
 121

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
BRL	Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S Spike Recovery outside limits due to matrix	

Client: Arcadis
Project Name: Lafarge AS/SVE Startup
Workorder: 1403157

ANALYTICAL QC SUMMARY REPORT

BatchID: 188663

Sample ID: LCS-188663	Client ID:	Units: ug, Total	Prep Date: 03/21/2014	Run No: 264036							
SampleType: LCS	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 188663	Analysis Date: 03/24/2014	Seq No: 5556664							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

n-Hexane 103.5 10 100.0 104 87.1 123

Sample ID: LCS-188663	Client ID:	Units: ug, Total	Prep Date: 03/21/2014	Run No: 264037							
SampleType: LCS	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 188663	Analysis Date: 03/24/2014	Seq No: 5556740							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene 101.2 10 100.0 101 76 123
 Ethylbenzene 101.1 10 100.0 101 80.2 124
 m,p-Xylene 199.5 20 200.0 99.7 78 123
 Methyl tert-butyl ether 84.06 10 100.0 84.1 71 120
 Naphthalene 43.25 10 100.0 43.2 34.4 100
 o-Xylene 94.15 10 100.0 94.2 78 118
 Toluene 99.40 10 100.0 99.4 78.3 121

Sample ID: LCS-188663-2	Client ID:	Units: ug, Total	Prep Date: 03/21/2014	Run No: 264035							
SampleType: LCS	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 188663	Analysis Date: 03/24/2014	Seq No: 5556597							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene 98.92 10 100.0 98.9 83.6 119
 cis-1,2-Dichloroethene 103.3 10 100.0 103 84.2 123
 trans-1,2-Dichloroethene 103.0 10 100.0 103 85 120

Sample ID: LCS-188663-3	Client ID:	Units: ug, Total	Prep Date: 03/21/2014	Run No: 264035							
SampleType: LCS	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 188663	Analysis Date: 03/24/2014	Seq No: 5556591							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Vinyl chloride 18.04 10 25.00 72.2 60.4 121

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Arcadis
Project Name: Lafarge AS/SVE Startup
Workorder: 1403157

ANALYTICAL QC SUMMARY REPORT

BatchID: 188663

Sample ID: LCSD-188663	Client ID:	Units: ug, Total	Prep Date: 03/21/2014	Run No: 264035							
SampleType: LCSD	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 188663	Analysis Date: 03/24/2014	Seq No: 5556590							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	102.9	10	100.0		103	85	120	100.9	1.88	15	
Carbon tetrachloride	105.7	10	100.0		106	85	126	103.7	1.90	15	
Chloroform	100.6	10	100.0		101	83.2	120	99.69	0.893	15	
Methylene chloride	103.3	10	100.0		103	85	126	100.2	3.06	15	
Tetrachloroethene	99.22	10	100.0		99.2	85	118	98.15	1.08	15	
Trichloroethene	104.4	10	100.0		104	85	122	103.0	1.35	15	

Sample ID: LCSD-188663	Client ID:	Units: ug, Total	Prep Date: 03/21/2014	Run No: 264036							
SampleType: LCSD	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 188663	Analysis Date: 03/24/2014	Seq No: 5556667							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2-Butanone	93.37	10	100.0		93.4	74.2	120	91.74	1.77	15	
4-Methyl-2-pentanone	96.76	10	100.0		96.8	81.5	120	95.88	0.908	15	
Acetone	84.82	10	100.0		84.8	70.1	120	82.55	2.71	15	
Diethyl ether	99.23	10	100.0		99.2	79.9	120	97.45	1.80	15	
n-Heptane	103.5	10	100.0		103	87	121	101.4	2.00	15	
n-Hexane	105.3	10	100.0		105	87.1	123	103.5	1.73	15	

Sample ID: LCSD-188663	Client ID:	Units: ug, Total	Prep Date: 03/21/2014	Run No: 264037							
SampleType: LCSD	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 188663	Analysis Date: 03/24/2014	Seq No: 5556741							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene	103.7	10	100.0		104	76	123	101.2	2.42	15	
Ethylbenzene	101.8	10	100.0		102	80.2	124	101.1	0.708	15	
m,p-Xylene	201.1	20	200.0		101	78	123	199.5	0.802	15	
Methyl tert-butyl ether	85.82	10	100.0		85.8	71	120	84.06	2.08	15	
Naphthalene	44.81	10	100.0		44.8	34.4	100	43.25	3.56	15	
o-Xylene	94.91	10	100.0		94.9	78	118	94.15	0.804	15	

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Arcadis
Project Name: Lafarge AS/SVE Startup
Workorder: 1403157

ANALYTICAL QC SUMMARY REPORT

BatchID: 188663

Sample ID: LCSD-188663	Client ID:	Units: ug, Total	Prep Date: 03/21/2014	Run No: 264037							
SampleType: LCSD	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 188663	Analysis Date: 03/24/2014	Seq No: 5556741							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Toluene	100.3	10	100.0		100	78.3	121	99.40	0.946	15	
---------	-------	----	-------	--	-----	------	-----	-------	-------	----	--

Sample ID: LCSD-188663-2	Client ID:	Units: ug, Total	Prep Date: 03/21/2014	Run No: 264035							
SampleType: LCSD	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 188663	Analysis Date: 03/24/2014	Seq No: 5556598							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	100.8	10	100.0		101	83.6	119	98.92	1.93	15	
cis-1,2-Dichloroethene	103.9	10	100.0		104	84.2	123	103.3	0.611	15	
trans-1,2-Dichloroethene	103.7	10	100.0		104	85	120	103.0	0.693	15	

Sample ID: LCSD-188663-3	Client ID:	Units: ug, Total	Prep Date: 03/21/2014	Run No: 264035							
SampleType: LCSD	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 188663	Analysis Date: 03/24/2014	Seq No: 5556592							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Vinyl chloride	18.16	10	25.00		72.6	60.4	121	18.04	0.657	19.2	
----------------	-------	----	-------	--	------	------	-----	-------	-------	------	--

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
BRL	Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S Spike Recovery outside limits due to matrix	



April 10, 2014

Peter Cornais
Arcadis
2081 Vista Parkway, Suite 200
West Palm Beach FL 33411

TEL: (850) 445-0829
FAX:

RE: Lafarge AS/SVE System

Dear Peter Cornais:

Order No: 1404898

Analytical Environmental Services, Inc. received 3 samples on 4/9/2014 8:38:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/13-06/30/14.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/15.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Chantelle Kanhai
Project Manager



ANALYTICAL ENVIRONMENTAL SERVICES, INC
3785 Presidential Parkway, Atlanta GA 30340-3704
TEL: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1404898

Date: 4-8-14 Page 1 of 1

#	SAMPLE ID	SAMPLED		Grab	Composite	Matrix (See codes)	PRESERVATION (See codes)	REMARKS	No # of Containers
		DATE	TIME						
1	SVE-GAC-INE(040814)	4-8-14	1459	-	-	Air		2 day TAT	1
2	SVE-GAC-MIA(040814)	4-8-14	1501	-	-	Air		2 day TAT	1
3	SVE-GAC-EFF(040814)	4-8-14	1503	-	-	Air		1 day (24H) TAT	1
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									

COMPANY: Arcadis	ADDRESS: 1000 Cobb Place Blvd Building 500A Kennesaw, GA 30144	PHONE: 770 428 9009	FAX: 770 428 4004
SAMPLED BY: <i>Wend Jenkins</i>	SIGNATURE: <i>Wend Jenkins</i>		

RELINQUISHED BY: <i>Wend Jenkins</i>	DATE/TIME: 4-9-14	RECEIVED BY: <i>Latoya R</i>	DATE/TIME: 4/9/14 8:38a

PROJECT NAME: <i>Latoya AS/SVE system</i>	PROJECT INFORMATION
PROJECT #: <i>ATL25516.0013</i>	
SITE ADDRESS: <i>20 25 N, Martha St East Point, GA</i>	
SEND REPORT TO: <i>petencarrais@arcadis-us.com</i>	
INVOICE TO: (IF DIFFERENT FROM ABOVE)	
QUOTE #:	PO#:

SHIPMENT METHOD	OUT / /	VIA:
	IN	VIA:
	CLIENT	UPS MAIL COURIER
	GREYHOUND	OTHER

SPECIAL INSTRUCTIONS/COMMENTS:
Page 2 of 11

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES.
SAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMPLETION UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) O = Other (specify) WW = Waste Water
PRESERVATIVE CODES: H+1 = Hydrochloric acid + ice I = Ice only N = Nitric acid S+1 = Sulfuric acid + ice S/M+1 = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

Turnaround Time Request:
 Standard 5 Business Days
 2 Business Day Rush (INF, MED)
 Next Business Day Rush (EFF)
 Same Day Rush (auth req.)
 Other

STATE PROGRAM (if any):
 E-mail? Y/N; Fax? Y/N
 DATA PACKAGE: I II III IV

White Copy - Original; Yellow Copy - Client

Analytical Results

for

Arcadis

Date: 10-Apr-14

Workorder: 1404898

Client Reference: Lafarge AS/SVE System

Analyte	Concentration					Limit of Detection (ug)	Qual	Date Analyzed /Analyst	Test Method
	Total (ug)	Front (ug)	Back (ug)	(mg/m3)	(ppm)				
Client ID: SVE_GAC_INF (040814)	Lab ID: 1404898-001A		Date Sampled: 4/8/2014		Media: Tedlar Bag		Air Vol.(L): 1		
1,1,1-Trichloroethane	<10	<10	<10	<10	<1.8	10	4/9/2014	RUF	EPA18
1,1-Dichloroethene	<10	<10	<10	<10	<2.5	10	4/9/2014	RUF	EPA18
2-Butanone	<10	<10	<10	<10	<3.4	10	4/9/2014	RUF	EPA18
4-Methyl-2-pentanone	<10	<10	<10	<10	<2.4	10	4/9/2014	RUF	EPA18
Acetone	<10	<10	<10	<10	<4.2	10	4/9/2014	RUF	EPA18
Benzene	<10	<10	<10	<10	<3.1	10	4/9/2014	RUF	EPA18
Carbon tetrachloride	<10	<10	<10	<10	<1.6	10	4/9/2014	RUF	EPA18
Chloroform	<10	<10	<10	<10	<2.0	10	4/9/2014	RUF	EPA18
cis-1,2-Dichloroethene	<10	<10	<10	<10	<2.5	10	4/9/2014	RUF	EPA18
Diethyl ether	<10	<10	<10	<10	<3.3	10	4/9/2014	RUF	EPA18
Ethylbenzene	33	33.429	<10	33	7.7	10	4/9/2014	RUF	EPA18
Freon 141B	<10	<10	<10	<10	<2.1	10	4/9/2014	RUF	EPA18
m,p-Xylene	130	132.202	<20	130	30	20	4/9/2014	RUF	EPA18
Methyl tert-butyl ether	<10	<10	<10	<10	<2.8	10	4/9/2014	RUF	EPA18
Methylene chloride	<10	<10	<10	<10	<2.9	10	4/9/2014	RUF	EPA18
n-Heptane	95	95.373	<10	95	23	10	4/9/2014	RUF	EPA18
n-Hexane	180	180.889	<10	180	51	10	4/9/2014	RUF	EPA18
Naphthalene	<10	<10	<10	<10	<1.9	10	4/9/2014	RUF	EPA18
o-Xylene	25	24.528	<10	25	5.6	10	4/9/2014	RUF	EPA18
Tetrachloroethene	<10	<10	<10	<10	<1.5	10	4/9/2014	RUF	EPA18
Toluene	210	214.199	<10	210	57	10	4/9/2014	RUF	EPA18
trans-1,2-Dichloroethene	<10	<10	<10	<10	<2.5	10	4/9/2014	RUF	EPA18
Trichloroethene	32	32.395	<10	32	6.0	10	4/9/2014	RUF	EPA18
TRPH (Based on Benzene)	1700	1660.29	<100	1700	520	100	4/9/2014	RUF	EPA18
Vinyl chloride	<10	<10	<10	<10	<3.9	10	4/9/2014	RUF	EPA18

Client ID: SVE_GAC_MID (040814)	Lab ID: 1404898-002A		Date Sampled: 4/8/2014		Media: Tedlar Bag		Air Vol.(L): 1		
1,1,1-Trichloroethane	<10	<10	<10	<10	<1.8	10	4/9/2014	RUF	EPA18
1,1-Dichloroethene	<10	<10	<10	<10	<2.5	10	4/9/2014	RUF	EPA18
2-Butanone	<10	<10	<10	<10	<3.4	10	4/9/2014	RUF	EPA18
4-Methyl-2-pentanone	<10	<10	<10	<10	<2.4	10	4/9/2014	RUF	EPA18
Acetone	<10	<10	<10	<10	<4.2	10	4/9/2014	RUF	EPA18
Benzene	<10	<10	<10	<10	<3.1	10	4/9/2014	RUF	EPA18
Carbon tetrachloride	<10	<10	<10	<10	<1.6	10	4/9/2014	RUF	EPA18
Chloroform	<10	<10	<10	<10	<2.0	10	4/9/2014	RUF	EPA18
cis-1,2-Dichloroethene	<10	<10	<10	<10	<2.5	10	4/9/2014	RUF	EPA18
Diethyl ether	<10	<10	<10	<10	<3.3	10	4/9/2014	RUF	EPA18
Ethylbenzene	<10	<10	<10	<10	<2.3	10	4/9/2014	RUF	EPA18
Freon 141B	<10	<10	<10	<10	<2.1	10	4/9/2014	RUF	EPA18

Qualifiers:

< Less than the indicated limit of detection (LOD)

H Holding time for preparation or analysis

B Analyte detected in the associated Method Blank

(a) Analysis indicates possible breakthrough; back section result is greater than

10 % of the front section result.

Analytical Results

for

Arcadis

Date: 10-Apr-14

Workorder: 1404898

Client Reference: Lafarge AS/SVE System

Analyte	Concentration					Limit of Detection (ug)	Qual	Date Analyzed	Test Method
	Total (ug)	Front (ug)	Back (ug)	(mg/m3)	(ppm)				
m,p-Xylene	<20	<20	<20	<20	<4.6	20	4/9/2014	RUF	EPA18
Methyl tert-butyl ether	<10	<10	<10	<10	<2.8	10	4/9/2014	RUF	EPA18
Methylene chloride	<10	<10	<10	<10	<2.9	10	4/9/2014	RUF	EPA18
n-Heptane	180	182.44	<10	180	44	10	4/9/2014	RUF	EPA18
n-Hexane	170	168.72	<10	170	48	10	4/9/2014	RUF	EPA18
Naphthalene	<10	<10	<10	<10	<1.9	10	4/9/2014	RUF	EPA18
o-Xylene	<10	<10	<10	<10	<2.3	10	4/9/2014	RUF	EPA18
Tetrachloroethene	<10	<10	<10	<10	<1.5	10	4/9/2014	RUF	EPA18
Toluene	180	181.917	<10	180	48	10	4/9/2014	RUF	EPA18
trans-1,2-Dichloroethene	<10	<10	<10	<10	<2.5	10	4/9/2014	RUF	EPA18
Trichloroethene	42	41.818	<10	42	7.8	10	4/9/2014	RUF	EPA18
TRPH (Based on Benzene)	1000	1005.04	<100	1000	320	100	4/9/2014	RUF	EPA18
Vinyl chloride	<10	<10	<10	<10	<3.9	10	4/9/2014	RUF	EPA18

Client ID: SVE_GAC_EFF (040814) **Lab ID:** 1404898-003A **Date Sampled:** 4/8/2014 **Media:** Tedlar Bag **Air Vol.(L):** 1

1,1,1-Trichloroethane	<10	<10	<10	<10	<1.8	10	4/9/2014	RUF	EPA18
1,1-Dichloroethene	<10	<10	<10	<10	<2.5	10	4/9/2014	RUF	EPA18
2-Butanone	<10	<10	<10	<10	<3.4	10	4/9/2014	RUF	EPA18
4-Methyl-2-pentanone	<10	<10	<10	<10	<2.4	10	4/9/2014	RUF	EPA18
Acetone	<10	<10	<10	<10	<4.2	10	4/9/2014	RUF	EPA18
Benzene	<10	<10	<10	<10	<3.1	10	4/9/2014	RUF	EPA18
Carbon tetrachloride	<10	<10	<10	<10	<1.6	10	4/9/2014	RUF	EPA18
Chloroform	<10	<10	<10	<10	<2.0	10	4/9/2014	RUF	EPA18
cis-1,2-Dichloroethene	<10	<10	<10	<10	<2.5	10	4/9/2014	RUF	EPA18
Diethyl ether	<10	<10	<10	<10	<3.3	10	4/9/2014	RUF	EPA18
Ethylbenzene	<10	<10	<10	<10	<2.3	10	4/9/2014	RUF	EPA18
Freon 141B	<10	<10	<10	<10	<2.1	10	4/9/2014	RUF	EPA18
m,p-Xylene	<20	<20	<20	<20	<4.6	20	4/9/2014	RUF	EPA18
Methyl tert-butyl ether	<10	<10	<10	<10	<2.8	10	4/9/2014	RUF	EPA18
Methylene chloride	<10	<10	<10	<10	<2.9	10	4/9/2014	RUF	EPA18
n-Heptane	<10	<10	<10	<10	<2.4	10	4/9/2014	RUF	EPA18
n-Hexane	520	518.244	<10	520	150	10	4/9/2014	RUF	EPA18
Naphthalene	<10	<10	<10	<10	<1.9	10	4/9/2014	RUF	EPA18
o-Xylene	<10	<10	<10	<10	<2.3	10	4/9/2014	RUF	EPA18
Tetrachloroethene	<10	<10	<10	<10	<1.5	10	4/9/2014	RUF	EPA18
Toluene	<10	<10	<10	<10	<2.6	10	4/9/2014	RUF	EPA18
trans-1,2-Dichloroethene	<10	<10	<10	<10	<2.5	10	4/9/2014	RUF	EPA18
Trichloroethene	<10	<10	<10	<10	<1.9	10	4/9/2014	RUF	EPA18
TRPH (Based on Benzene)	1100	1112.79	<100	1100	350	100	4/9/2014	RUF	EPA18
Vinyl chloride	<10	<10	<10	<10	<3.9	10	4/9/2014	RUF	EPA18

Qualifiers:

< Less than the indicated limit of detection (LOD)

H Holding time for preparation or analysis

B Analyte detected in the associated Method Blank

(a) Analysis indicates possible breakthrough; back section result is greater than

10 % of the front section result.

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Arcadis

Work Order Number 1404898

Checklist completed by Jan B 4/9/14
Signature Date

Carrier name: FedEx UPS Courier Client US Mail Other

Shipping container/cooler in good condition? Yes No Not Present

Custody seals intact on shipping container/cooler? Yes No Not Present

Custody seals intact on sample bottles? Yes No Not Present

Container/Temp Blank temperature in compliance? ^{JB 4/9/14} ~~(4°C±2)*~~ Yes No

Cooler #1 Ambient Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler #5 _____ Cooler #6 _____

Chain of custody present? Yes No

Chain of custody signed when relinquished and received? Yes No

Chain of custody agrees with sample labels? Yes No

Samples in proper container/bottle? Yes No

Sample containers intact? Yes No

Sufficient sample volume for indicated test? Yes No

All samples received within holding time? Yes No

Was TAT marked on the COC? Yes No

Proceed with Standard TAT as per project history? Yes No Not Applicable

Water - VOA vials have zero headspace? No VOA vials submitted Yes No

Water - pH acceptable upon receipt? Yes No Not Applicable

Adjusted? _____ Checked by _____

Sample Condition: Good Other(Explain) _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes No

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

Client: Arcadis
Project: Lafarge AS/SVE System
Lab Order: 1404898

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1404898-001A	SVE_GAC_INF (040814)	4/8/2014 2:59:00PM	Air	Aromatic Volatiles in Air		04/09/2014	04/09/2014
1404898-001A	SVE_GAC_INF (040814)	4/8/2014 2:59:00PM	Air	Chlorinated Volatiles in Air		04/09/2014	04/09/2014
1404898-001A	SVE_GAC_INF (040814)	4/8/2014 2:59:00PM	Air	Volatile Hydrocarbons in Air		04/09/2014	04/09/2014
1404898-002A	SVE_GAC_MID (040814)	4/8/2014 3:01:00PM	Air	Aromatic Volatiles in Air		04/09/2014	04/09/2014
1404898-002A	SVE_GAC_MID (040814)	4/8/2014 3:01:00PM	Air	Chlorinated Volatiles in Air		04/09/2014	04/09/2014
1404898-002A	SVE_GAC_MID (040814)	4/8/2014 3:01:00PM	Air	Volatile Hydrocarbons in Air		04/09/2014	04/09/2014
1404898-003A	SVE_GAC_EFF (040814)	4/8/2014 3:03:00PM	Air	Aromatic Volatiles in Air		04/09/2014	04/09/2014
1404898-003A	SVE_GAC_EFF (040814)	4/8/2014 3:03:00PM	Air	Chlorinated Volatiles in Air		04/09/2014	04/09/2014
1404898-003A	SVE_GAC_EFF (040814)	4/8/2014 3:03:00PM	Air	Volatile Hydrocarbons in Air		04/09/2014	04/09/2014

Client: Arcadis
 Project Name: Lafarge AS/SVE System
 Workorder: 1404898

ANALYTICAL QC SUMMARY REPORT

BatchID: 189472

Sample ID: MB-189472	Client ID:	Units: ug, Total	Prep Date: 04/09/2014	Run No: 265225							
SampleType: MBLK	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 189472	Analysis Date: 04/09/2014	Seq No: 5586235							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane
 1,1-Dichloroethene
 Carbon tetrachloride
 Chloroform
 cis-1,2-Dichloroethene
 Freon 141B
 Methylene chloride
 Tetrachloroethene
 trans-1,2-Dichloroethene
 Trichloroethene
 Vinyl chloride

BRL
 BRL

10
 10
 10
 10
 10
 10
 10
 10
 10
 10
 10

Sample ID: MB-189472	Client ID:	Units: ug, Total	Prep Date: 04/09/2014	Run No: 265226							
SampleType: MBLK	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 189472	Analysis Date: 04/09/2014	Seq No: 5586453							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2-Butanone
 4-Methyl-2-pentanone
 Acetone
 Diethyl ether
 n-Heptane
 n-Hexane

BRL
 BRL
 BRL
 BRL
 BRL
 BRL

10
 10
 10
 10
 10
 10

Sample ID: MB-189472	Client ID:	Units: ug, Total	Prep Date: 04/09/2014	Run No: 265227							
SampleType: MBLK	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 189472	Analysis Date: 04/09/2014	Seq No: 5586475							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene

BRL
 10

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Arcadis
 Project Name: Lafarge AS/SVE System
 Workorder: 1404898

ANALYTICAL QC SUMMARY REPORT

BatchID: 189472

Sample ID: MB-189472	Client ID:	Units: ug, Total	Prep Date: 04/09/2014	Run No: 265227							
SampleType: MBLK	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 189472	Analysis Date: 04/09/2014	Seq No: 5586475							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethylbenzene
 m,p-Xylene
 Methyl tert-butyl ether
 Naphthalene
 o-Xylene
 Toluene
 TRPH (Based on Benzene)

BRL
 BRL
 BRL
 BRL
 BRL
 BRL
 BRL

10
 20
 10
 10
 10
 10
 100

Sample ID: LCS-189472	Client ID:	Units: ug, Total	Prep Date: 04/09/2014	Run No: 265225							
SampleType: LCS	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 189472	Analysis Date: 04/09/2014	Seq No: 5586237							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane
 Carbon tetrachloride
 Chloroform
 Methylene chloride
 Tetrachloroethene
 Trichloroethene

103.1
 105.6
 100.7
 101.4
 100.3
 106.2

10
 10
 10
 10
 10
 10

100.0
 100.0
 100.0
 100.0
 100.0
 100.0

103
 106
 101
 101
 100
 106

85
 85
 83.2
 85
 85
 85

120
 126
 120
 126
 118
 122

Sample ID: LCS-189472	Client ID:	Units: ug, Total	Prep Date: 04/09/2014	Run No: 265226							
SampleType: LCS	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 189472	Analysis Date: 04/09/2014	Seq No: 5586454							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2-Butanone
 4-Methyl-2-pentanone
 Acetone
 Diethyl ether
 n-Heptane

89.17
 95.65
 78.99
 99.08
 103.8

10
 10
 10
 10
 10

100.0
 100.0
 100.0
 100.0
 100.0

89.2
 95.7
 79.0
 99.1
 104

74.2
 81.5
 70.1
 79.9
 87

120
 120
 120
 120
 121

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	

Client: Arcadis
Project Name: Lafarge AS/SVE System
Workorder: 1404898

ANALYTICAL QC SUMMARY REPORT

BatchID: 189472

Sample ID: LCS-189472	Client ID:	Units: ug, Total	Prep Date: 04/09/2014	Run No: 265226							
SampleType: LCS	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 189472	Analysis Date: 04/09/2014	Seq No: 5586454							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

n-Hexane 105.8 10 100.0 106 87.1 123

Sample ID: LCS-189472	Client ID:	Units: ug, Total	Prep Date: 04/09/2014	Run No: 265227							
SampleType: LCS	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 189472	Analysis Date: 04/09/2014	Seq No: 5586478							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene 103.5 10 100.0 104 76 123
 Ethylbenzene 103.1 10 100.0 103 80.2 124
 m,p-Xylene 202.4 20 200.0 101 78 123
 Methyl tert-butyl ether 85.50 10 100.0 85.5 71 120
 Naphthalene 45.15 10 100.0 45.2 34.4 100
 o-Xylene 95.26 10 100.0 95.3 78 118
 Toluene 101.8 10 100.0 102 78.3 121

Sample ID: LCS-189472-2	Client ID:	Units: ug, Total	Prep Date: 04/09/2014	Run No: 265225							
SampleType: LCS	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 189472	Analysis Date: 04/09/2014	Seq No: 5586245							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene 99.47 10 100.0 99.5 83.6 119
 cis-1,2-Dichloroethene 103.8 10 100.0 104 84.2 123
 trans-1,2-Dichloroethene 102.9 10 100.0 103 85 120

Sample ID: LCS-189472-3	Client ID:	Units: ug, Total	Prep Date: 04/09/2014	Run No: 265225							
SampleType: LCS	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 189472	Analysis Date: 04/09/2014	Seq No: 5586241							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Vinyl chloride 26.28 10 25.00 105 60.4 121

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Arcadis
Project Name: Lafarge AS/SVE System
Workorder: 1404898

ANALYTICAL QC SUMMARY REPORT

BatchID: 189472

Sample ID: LCSD-189472	Client ID:	Units: ug, Total	Prep Date: 04/09/2014	Run No: 265225							
SampleType: LCSD	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 189472	Analysis Date: 04/09/2014	Seq No: 5586239							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	103.2	10	100.0		103	85	120	103.1	0.136	15	
Carbon tetrachloride	105.9	10	100.0		106	85	126	105.6	0.354	15	
Chloroform	101.0	10	100.0		101	83.2	120	100.7	0.268	15	
Methylene chloride	102.1	10	100.0		102	85	126	101.4	0.684	15	
Tetrachloroethene	101.4	10	100.0		101	85	118	100.3	1.05	15	
Trichloroethene	106.5	10	100.0		107	85	122	106.2	0.354	15	

Sample ID: LCSD-189472	Client ID:	Units: ug, Total	Prep Date: 04/09/2014	Run No: 265226							
SampleType: LCSD	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 189472	Analysis Date: 04/09/2014	Seq No: 5586455							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2-Butanone	91.42	10	100.0		91.4	74.2	120	89.17	2.50	15	
4-Methyl-2-pentanone	96.40	10	100.0		96.4	81.5	120	95.65	0.784	15	
Acetone	80.65	10	100.0		80.7	70.1	120	78.99	2.09	15	
Diethyl ether	98.86	10	100.0		98.9	79.9	120	99.08	0.217	15	
n-Heptane	104.0	10	100.0		104	87	121	103.8	0.219	15	
n-Hexane	106.0	10	100.0		106	87.1	123	105.8	0.246	15	

Sample ID: LCSD-189472	Client ID:	Units: ug, Total	Prep Date: 04/09/2014	Run No: 265227							
SampleType: LCSD	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 189472	Analysis Date: 04/09/2014	Seq No: 5586482							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene	104.1	10	100.0		104	76	123	103.5	0.575	15	
Ethylbenzene	104.0	10	100.0		104	80.2	124	103.1	0.877	15	
m,p-Xylene	205.5	20	200.0		103	78	123	202.4	1.54	15	
Methyl tert-butyl ether	85.98	10	100.0		86.0	71	120	85.50	0.556	15	
Naphthalene	46.40	10	100.0		46.4	34.4	100	45.15	2.73	15	
o-Xylene	96.97	10	100.0		97.0	78	118	95.26	1.78	15	

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Arcadis
Project Name: Lafarge AS/SVE System
Workorder: 1404898

ANALYTICAL QC SUMMARY REPORT

BatchID: 189472

Sample ID: LCSD-189472	Client ID:	Units: ug, Total	Prep Date: 04/09/2014	Run No: 265227							
SampleType: LCSD	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 189472	Analysis Date: 04/09/2014	Seq No: 5586482							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Toluene	102.0	10	100.0		102	78.3	121	101.8	0.185	15	
---------	-------	----	-------	--	-----	------	-----	-------	-------	----	--

Sample ID: LCSD-189472-2	Client ID:	Units: ug, Total	Prep Date: 04/09/2014	Run No: 265225							
SampleType: LCSD	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 189472	Analysis Date: 04/09/2014	Seq No: 5586247							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	98.39	10	100.0		98.4	83.6	119	99.47	1.09	15	
cis-1,2-Dichloroethene	101.1	10	100.0		101	84.2	123	103.8	2.65	15	
trans-1,2-Dichloroethene	101.5	10	100.0		102	85	120	102.9	1.34	15	

Sample ID: LCSD-189472-3	Client ID:	Units: ug, Total	Prep Date: 04/09/2014	Run No: 265225							
SampleType: LCSD	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 189472	Analysis Date: 04/09/2014	Seq No: 5586243							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Vinyl chloride	26.30	10	25.00		105	60.4	121	26.28	0.076	19.2	
----------------	-------	----	-------	--	-----	------	-----	-------	-------	------	--

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
BRL	Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S Spike Recovery outside limits due to matrix	



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

May 06, 2014

Peter Cornais
Arcadis
2081 Vista Parkway, Suite 200
West Palm Beach FL 33411

TEL: (850) 445-0829
FAX:

RE: Lafarge EP SVE

Dear Peter Cornais:

Order No: 1404P90

Analytical Environmental Services, Inc. received 2 samples on 4/25/2014 4:35:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/13-06/30/14.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/15.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Chantelle Kanhai
Project Manager



ANALYTICAL ENVIRONMENTAL SERVICES, INC

3080 Presidential Drive, Atlanta GA 30340-3704

AES TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1404190

Date: 042514 Page 1 of 1

COMPANY: **ARCADIS**
 ADDRESS: **1000 Cobb Place Blvd, 10th Floor, Kennesaw, GA 30144**
 PHONE: **770.428.9009** FAX: **770.428.9009**
 SAMPLED BY: **D. Norving** SIGNATURE: *[Signature]*

#	SAMPLE ID	SAMPLED		Grab	Composite	Matrix (See codes)	PRESERVATION (See codes)		REMARKS	No # of Containers
		DATE	TIME							
1	SUE-GAC-INF (042514)	0425	1500	✓		AIR				1
2	SUE-GAC-EFF (042514)	↓	1510	✓		↓				1
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										

RELINQUISHED BY: **D. Norving** DATE/TIME: **4/25/14 1635** RECEIVED BY: **Alay R** DATE/TIME: **4/25/14 4:35p**

PROJECT NAME: **Calorse E.P. SVE**
 PROJECT #: **HT212446-0014-00002**
 SITE ADDRESS: **2675 NW Martha St, Exit Point, GA**
 SEND REPORT TO: **peter.cornais@arcadis-us.com**
 INVOICE TO: **(IF DIFFERENT FROM ABOVE)**
 QUOTE #: _____ PO#: _____

SHIPMENT METHOD: **CLIENT** VIA: **FedEx**
 OUT IN: **1** VIA: **UPS MAIL**
GREYHOUND OTHER: _____

SPECIAL INSTRUCTIONS/COMMENTS: _____

STATE PROGRAM (if any): _____
 E-mail? Y/N: _____ Fax? Y/N: _____
 DATA PACKAGE: I II III IV

Turnaround Time Request: Standard 5 Business Days
 2 Business Day Rush
 Next Business Day Rush
 Same Day Rush (auth req.)
 Other

RECEIPT: Total # of Containers: **2**

Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.

EPA 18 Full

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES.
 SAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMPLETION UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water
 PRESERVATIVE CODES: H+1 = Hydrochloric acid + ice I = Ice only N = Nitric acid SH = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client

Analytical Results

for

Arcadis

Date: 6-May-14

Workorder: 1404P90

Client Reference: Lafarge EP SVE

Analyte	Concentration					Limit of Detection (ug)	Qual	Date Analyzed /Analyst	Test Method
	Total (ug)	Front (ug)	Back (ug)	(mg/m3)	(ppm)				
Client ID: SVE_GAC_INF (042514)	Lab ID: 1404P90-001A		Date Sampled: 4/25/2014		Media: Tedlar Bag	Air Vol.(L): 1			
1,1,1-Trichloroethane	<10	<10	<10	<10	<1.8	10	4/29/2014	RUF	EPA18
1,1-Dichloroethene	<10	<10	<10	<10	<2.5	10	4/29/2014	RUF	EPA18
2-Butanone	<10	<10	<10	<10	<3.4	10	4/29/2014	RUF	EPA18
4-Methyl-2-pentanone	<10	<10	<10	<10	<2.4	10	4/29/2014	RUF	EPA18
Acetone	<10	<10	<10	<10	<4.2	10	4/29/2014	RUF	EPA18
Benzene	<10	<10	<10	<10	<3.1	10	4/29/2014	RUF	EPA18
Carbon tetrachloride	<10	<10	<10	<10	<1.6	10	4/29/2014	RUF	EPA18
Chloroform	<10	<10	<10	<10	<2.0	10	4/29/2014	RUF	EPA18
cis-1,2-Dichloroethene	18	17.546	<10	18	4.4	10	4/29/2014	RUF	EPA18
Diethyl ether	<10	<10	<10	<10	<3.3	10	4/29/2014	RUF	EPA18
Ethylbenzene	28	27.883	<10	28	6.4	10	4/29/2014	RUF	EPA18
Freon 141B	<10	<10	<10	<10	<2.1	10	4/29/2014	RUF	EPA18
m,p-Xylene	100	104.693	<20	100	24	20	4/29/2014	RUF	EPA18
Methyl tert-butyl ether	<10	<10	<10	<10	<2.8	10	4/29/2014	RUF	EPA18
Methylene chloride	<10	<10	<10	<10	<2.9	10	4/29/2014	RUF	EPA18
n-Heptane	150	151.773	<10	150	37	10	4/29/2014	RUF	EPA18
n-Hexane	190	193.753	<10	190	55	10	4/29/2014	RUF	EPA18
Naphthalene	<10	<10	<10	<10	<1.9	10	4/29/2014	RUF	EPA18
o-Xylene	19	18.881	<10	19	4.4	10	4/29/2014	RUF	EPA18
Tetrachloroethene	<10	<10	<10	<10	<1.5	10	4/29/2014	RUF	EPA18
Toluene	330	325.915	<10	330	86	10	4/29/2014	RUF	EPA18
trans-1,2-Dichloroethene	<10	<10	<10	<10	<2.5	10	4/29/2014	RUF	EPA18
Trichloroethene	110	106.122	<10	110	20	10	4/29/2014	RUF	EPA18
TRPH (Based on Benzene)	1900	1889.1	<100	1900	590	100	4/29/2014	RUF	EPA18
Vinyl chloride	<10	<10	<10	<10	<3.9	10	4/29/2014	RUF	EPA18

Client ID: SVE_GAC_EFF (042514)	Lab ID: 1404P90-002A		Date Sampled: 4/25/2014		Media: Tedlar Bag	Air Vol.(L): 1			
1,1,1-Trichloroethane	<10	<10	<10	<10	<1.8	10	4/29/2014	RUF	EPA18
1,1-Dichloroethene	<10	<10	<10	<10	<2.5	10	4/29/2014	RUF	EPA18
2-Butanone	<10	<10	<10	<10	<3.4	10	4/29/2014	RUF	EPA18
4-Methyl-2-pentanone	<10	<10	<10	<10	<2.4	10	4/29/2014	RUF	EPA18
Acetone	<10	<10	<10	<10	<4.2	10	4/29/2014	RUF	EPA18
Benzene	<10	<10	<10	<10	<3.1	10	4/29/2014	RUF	EPA18
Carbon tetrachloride	<10	<10	<10	<10	<1.6	10	4/29/2014	RUF	EPA18
Chloroform	<10	<10	<10	<10	<2.0	10	4/29/2014	RUF	EPA18
cis-1,2-Dichloroethene	<10	<10	<10	<10	<2.5	10	4/29/2014	RUF	EPA18
Diethyl ether	<10	<10	<10	<10	<3.3	10	4/29/2014	RUF	EPA18
Ethylbenzene	<10	<10	<10	<10	<2.3	10	4/29/2014	RUF	EPA18
Freon 141B	<10	<10	<10	<10	<2.1	10	4/29/2014	RUF	EPA18

Qualifiers:

< Less than the indicated limit of detection (LOD)

H Holding time for preparation or analysis

B Analyte detected in the associated Method Blank

(a) Analysis indicates possible breakthrough; back section result is greater than

10 % of the front section result.

**Analytical Results
for**

Arcadis

Date: 6-May-14

Workorder: 1404P90

Client Reference: Lafarge EP SVE

Analyte	Concentration					Limit of Detection (ug)	Qual	Date Analyzed	Test Method
	Total (ug)	Front (ug)	Back (ug)	(mg/m3)	(ppm)				
m,p-Xylene	<20	<20	<20	<20	<4.6	20	4/29/2014	RUF	EPA18
Methyl tert-butyl ether	<10	<10	<10	<10	<2.8	10	4/29/2014	RUF	EPA18
Methylene chloride	<10	<10	<10	<10	<2.9	10	4/29/2014	RUF	EPA18
n-Heptane	<10	<10	<10	<10	<2.4	10	4/29/2014	RUF	EPA18
n-Hexane	<10	<10	<10	<10	<2.8	10	4/29/2014	RUF	EPA18
Naphthalene	<10	<10	<10	<10	<1.9	10	4/29/2014	RUF	EPA18
o-Xylene	<10	<10	<10	<10	<2.3	10	4/29/2014	RUF	EPA18
Tetrachloroethene	<10	<10	<10	<10	<1.5	10	4/29/2014	RUF	EPA18
Toluene	<10	<10	<10	<10	<2.6	10	4/29/2014	RUF	EPA18
trans-1,2-Dichloroethene	<10	<10	<10	<10	<2.5	10	4/29/2014	RUF	EPA18
Trichloroethene	<10	<10	<10	<10	<1.9	10	4/29/2014	RUF	EPA18
TRPH (Based on Benzene)	<100	<100	<100	<100	<31	100	4/29/2014	RUF	EPA18
Vinyl chloride	<10	<10	<10	<10	<3.9	10	4/29/2014	RUF	EPA18

Qualifiers:

< Less than the indicated limit of detection (LOD)

H Holding time for preparation or analysis

B Analyte detected in the associated Method Blank

(a) Analysis indicates possible breakthrough; back section result is greater than

10 % of the front section result.

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Arcadis

Work Order Number 140499

Checklist completed by [Signature] Date 9/25/14

Carrier name: FedEx UPS Courier Client US Mail Other

Shipping container/cooler in good condition? Yes No Not Present

Custody seals intact on shipping container/cooler? Yes No Not Present

Custody seals intact on sample bottles? Yes No Not Present

Container/Temp Blank temperature in compliance? (4°C±2)* Yes No

Cooler #1 Ambac Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler #5 _____ Cooler #6 _____

Chain of custody present? Yes No

Chain of custody signed when relinquished and received? Yes No

Chain of custody agrees with sample labels? Yes No

Samples in proper container/bottle? Yes No

Sample containers intact? Yes No

Sufficient sample volume for indicated test? Yes No

All samples received within holding time? Yes No

Was TAT marked on the COC? Yes No

Proceed with Standard TAT as per project history? Yes No Not Applicable

Water - VOA vials have zero headspace? No VOA vials submitted Yes No

Water - pH acceptable upon receipt? Yes No Not Applicable

Adjusted? _____ Checked by _____

Sample Condition: Good Other(Explain) _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes No

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

Client: Arcadis
Project: Lafarge EP SVE
Lab Order: 1404P90

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1404P90-001A	SVE_GAC_INF (042514)	4/25/2014 3:00:00PM	Air	Aromatic Volatiles in Air		04/28/2014	04/29/2014
1404P90-001A	SVE_GAC_INF (042514)	4/25/2014 3:00:00PM	Air	Chlorinated Volatiles in Air		04/28/2014	04/29/2014
1404P90-001A	SVE_GAC_INF (042514)	4/25/2014 3:00:00PM	Air	Volatile Hydrocarbons in Air		04/28/2014	04/29/2014
1404P90-002A	SVE_GAC_EFF (042514)	4/25/2014 3:10:00PM	Air	Aromatic Volatiles in Air		04/28/2014	04/29/2014
1404P90-002A	SVE_GAC_EFF (042514)	4/25/2014 3:10:00PM	Air	Chlorinated Volatiles in Air		04/28/2014	04/29/2014
1404P90-002A	SVE_GAC_EFF (042514)	4/25/2014 3:10:00PM	Air	Volatile Hydrocarbons in Air		04/28/2014	04/29/2014

Client: Arcadis
 Project Name: Lafarge EP SVE
 Workorder: 1404P90

ANALYTICAL QC SUMMARY REPORT

BatchID: 190281

Sample ID: MB-190281	Client ID:	Units: ug, Total	Prep Date: 04/28/2014	Run No: 266611							
SampleType: MBLK	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 190281	Analysis Date: 04/29/2014	Seq No: 5622307							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane
 1,1-Dichloroethene
 Carbon tetrachloride
 Chloroform
 cis-1,2-Dichloroethene
 Freon 141B
 Methylene chloride
 Tetrachloroethene
 trans-1,2-Dichloroethene
 Trichloroethene
 Vinyl chloride

BRL
 BRL

10
 10
 10
 10
 10
 10
 10
 10
 10
 10
 10

Sample ID: MB-190281	Client ID:	Units: ug, Total	Prep Date: 04/28/2014	Run No: 266612							
SampleType: MBLK	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 190281	Analysis Date: 04/29/2014	Seq No: 5622364							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2-Butanone
 4-Methyl-2-pentanone
 Acetone
 Diethyl ether
 n-Heptane
 n-Hexane

BRL
 BRL
 BRL
 BRL
 BRL
 BRL

10
 10
 10
 10
 10
 10

Sample ID: MB-190281	Client ID:	Units: ug, Total	Prep Date: 04/28/2014	Run No: 266613							
SampleType: MBLK	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 190281	Analysis Date: 04/29/2014	Seq No: 5622410							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene

BRL
 10

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Arcadis
Project Name: Lafarge EP SVE
Workorder: 1404P90

ANALYTICAL QC SUMMARY REPORT

BatchID: 190281

Sample ID: MB-190281	Client ID:	Units: ug, Total	Prep Date: 04/28/2014	Run No: 266613							
SampleType: MBLK	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 190281	Analysis Date: 04/29/2014	Seq No: 5622410							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethylbenzene
m,p-Xylene
Methyl tert-butyl ether
Naphthalene
o-Xylene
Toluene
TRPH (Based on Benzene)

BRL
BRL
BRL
BRL
BRL
BRL
BRL

10
20
10
10
10
10
100

Sample ID: LCS-190281	Client ID:	Units: ug, Total	Prep Date: 04/28/2014	Run No: 266611							
SampleType: LCS	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 190281	Analysis Date: 04/29/2014	Seq No: 5622309							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane
Carbon tetrachloride
Chloroform
Methylene chloride
Tetrachloroethene
Trichloroethene

108.9
111.2
105.8
106.8
105.6
110.8

10
10
10
10
10
10

100.0
100.0
100.0
100.0
100.0
100.0

109
111
106
107
106
111

85
85
83.2
85
85
85

120
126
120
126
118
122

Sample ID: LCS-190281	Client ID:	Units: ug, Total	Prep Date: 04/28/2014	Run No: 266612							
SampleType: LCS	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 190281	Analysis Date: 04/29/2014	Seq No: 5622366							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2-Butanone
4-Methyl-2-pentanone
Acetone
Diethyl ether
n-Heptane

93.74
101.2
81.40
103.1
110.0

10
10
10
10
10

100.0
100.0
100.0
100.0
100.0

93.7
101
81.4
103
110

74.2
81.5
70.1
79.9
87

120
120
120
120
121

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	

Client: Arcadis
Project Name: Lafarge EP SVE
Workorder: 1404P90

ANALYTICAL QC SUMMARY REPORT

BatchID: 190281

Sample ID: LCS-190281	Client ID:	Units: ug, Total	Prep Date: 04/28/2014	Run No: 266612							
SampleType: LCS	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 190281	Analysis Date: 04/29/2014	Seq No: 5622366							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

n-Hexane 112.1 10 100.0 112 87.1 123

Sample ID: LCS-190281	Client ID:	Units: ug, Total	Prep Date: 04/28/2014	Run No: 266613							
SampleType: LCS	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 190281	Analysis Date: 04/29/2014	Seq No: 5622414							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene 109.6 10 100.0 110 76 123
 Ethylbenzene 110.1 10 100.0 110 80.2 124
 m,p-Xylene 217.4 20 200.0 109 78 123
 Methyl tert-butyl ether 90.55 10 100.0 90.5 71 120
 Naphthalene 47.06 10 100.0 47.1 34.4 100
 o-Xylene 101.5 10 100.0 101 78 118
 Toluene 108.2 10 100.0 108 78.3 121

Sample ID: LCS-190281-2	Client ID:	Units: ug, Total	Prep Date: 04/28/2014	Run No: 266611							
SampleType: LCS	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 190281	Analysis Date: 04/29/2014	Seq No: 5622320							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene 103.4 10 100.0 103 83.6 119
 cis-1,2-Dichloroethene 108.0 10 100.0 108 84.2 123
 trans-1,2-Dichloroethene 107.1 10 100.0 107 85 120

Sample ID: LCS-190281-3	Client ID:	Units: ug, Total	Prep Date: 04/28/2014	Run No: 266611							
SampleType: LCS	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 190281	Analysis Date: 04/29/2014	Seq No: 5622314							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Vinyl chloride 25.70 10 25.00 103 60.4 121

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Arcadis
Project Name: Lafarge EP SVE
Workorder: 1404P90

ANALYTICAL QC SUMMARY REPORT

BatchID: 190281

Sample ID: LCSD-190281	Client ID:	Units: ug, Total	Prep Date: 04/28/2014	Run No: 266611							
SampleType: LCSD	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 190281	Analysis Date: 04/29/2014	Seq No: 5622312							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	106.9	10	100.0		107	85	120	108.9	1.86	15	
Carbon tetrachloride	109.5	10	100.0		110	85	126	111.2	1.48	15	
Chloroform	104.0	10	100.0		104	83.2	120	105.8	1.65	15	
Methylene chloride	104.8	10	100.0		105	85	126	106.8	1.90	15	
Tetrachloroethene	105.4	10	100.0		105	85	118	105.6	0.183	15	
Trichloroethene	109.3	10	100.0		109	85	122	110.8	1.33	15	

Sample ID: LCSD-190281	Client ID:	Units: ug, Total	Prep Date: 04/28/2014	Run No: 266612							
SampleType: LCSD	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 190281	Analysis Date: 04/29/2014	Seq No: 5622367							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2-Butanone	93.29	10	100.0		93.3	74.2	120	93.74	0.482	15	
4-Methyl-2-pentanone	100.4	10	100.0		100	81.5	120	101.2	0.806	15	
Acetone	80.78	10	100.0		80.8	70.1	120	81.40	0.762	15	
Diethyl ether	101.2	10	100.0		101	79.9	120	103.1	1.85	15	
n-Heptane	108.3	10	100.0		108	87	121	110.0	1.54	15	
n-Hexane	110.2	10	100.0		110	87.1	123	112.1	1.70	15	

Sample ID: LCSD-190281	Client ID:	Units: ug, Total	Prep Date: 04/28/2014	Run No: 266613							
SampleType: LCSD	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 190281	Analysis Date: 04/29/2014	Seq No: 5622418							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene	107.9	10	100.0		108	76	123	109.6	1.51	15	
Ethylbenzene	108.7	10	100.0		109	80.2	124	110.1	1.26	15	
m,p-Xylene	214.9	20	200.0		107	78	123	217.4	1.17	15	
Methyl tert-butyl ether	88.95	10	100.0		88.9	71	120	90.55	1.78	15	
Naphthalene	46.02	10	100.0		46.0	34.4	100	47.06	2.21	15	
o-Xylene	100.3	10	100.0		100	78	118	101.5	1.19	15	

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Arcadis
 Project Name: Lafarge EP SVE
 Workorder: 1404P90

ANALYTICAL QC SUMMARY REPORT

BatchID: 190281

Sample ID: LCSD-190281	Client ID:	Units: ug, Total	Prep Date: 04/28/2014	Run No: 266613							
SampleType: LCSD	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 190281	Analysis Date: 04/29/2014	Seq No: 5622418							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Toluene	106.9	10	100.0		107	78.3	121	108.2	1.17	15	
---------	-------	----	-------	--	-----	------	-----	-------	------	----	--

Sample ID: LCSD-190281-2	Client ID:	Units: ug, Total	Prep Date: 04/28/2014	Run No: 266611							
SampleType: LCSD	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 190281	Analysis Date: 04/29/2014	Seq No: 5622324							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	104.9	10	100.0		105	83.6	119	103.4	1.46	15	
cis-1,2-Dichloroethene	109.3	10	100.0		109	84.2	123	108.0	1.25	15	
trans-1,2-Dichloroethene	108.4	10	100.0		108	85	120	107.1	1.27	15	

Sample ID: LCSD-190281-3	Client ID:	Units: ug, Total	Prep Date: 04/28/2014	Run No: 266611							
SampleType: LCSD	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 190281	Analysis Date: 04/29/2014	Seq No: 5622316							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Vinyl chloride	26.79	10	25.00		107	60.4	121	25.70	4.15	19.2	
----------------	-------	----	-------	--	-----	------	-----	-------	------	------	--

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
BRL	Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S Spike Recovery outside limits due to matrix	



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

May 31, 2014

Peter Cornais
Arcadis
2081 Vista Parkway, Suite 200
West Palm Beach FL 33411

TEL: (850) 445-0829
FAX:

RE: Lafarge AS/SVE

Dear Peter Cornais:

Order No: 1405M51

Analytical Environmental Services, Inc. received 3 samples on 5/23/2014 3:56:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/13-06/30/14.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/15.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Chantelle Kanhai
Project Manager

Analytical Results

for

Arcadis

Date: 4-Jun-14

Workorder: 1405M51

Client Reference: Lafarge AS/SVE

Analyte	Concentration					Limit of Detection (ug)	Qual	Date Analyzed /Analyst	Test Method
	Total (ug)	Front (ug)	Back (ug)	(mg/m3)	(ppm)				
Client ID: SVE_POST_VLS (052314)	Lab ID: 1405M51-001A	Date Sampled: 5/23/2014	Media: Tedlar Bag	Air Vol.(L): 1					
1,1,1-Trichloroethane	<10	<10	<10	<10	<1.8	10	5/27/2014	RUF	EPA18
1,1-Dichloroethene	<10	<10	<10	<10	<2.5	10	5/27/2014	RUF	EPA18
2-Butanone	<10	<10	<10	<10	<3.4	10	5/27/2014	RUF	EPA18
4-Methyl-2-pentanone	<10	<10	<10	<10	<2.4	10	5/27/2014	RUF	EPA18
Acetone	<10	<10	<10	<10	<4.2	10	5/27/2014	RUF	EPA18
Benzene	29	29.397	<10	29	9.2	10	5/28/2014	RUF	EPA18
Carbon tetrachloride	<10	<10	<10	<10	<1.6	10	5/27/2014	RUF	EPA18
Chloroform	<10	<10	<10	<10	<2.0	10	5/27/2014	RUF	EPA18
cis-1,2-Dichloroethene	28	28.494	<10	28	7.2	10	5/27/2014	RUF	EPA18
Diethyl ether	<10	<10	<10	<10	<3.3	10	5/27/2014	RUF	EPA18
Ethylbenzene	97	97.474	<10	97	22	10	5/27/2014	RUF	EPA18
Freon 141B	<10	<10	<10	<10	<2.1	10	5/27/2014	RUF	EPA18
m,p-Xylene	300	303.601	<20	300	70	20	5/28/2014	RUF	EPA18
Methyl tert-butyl ether	<10	<10	<10	<10	<2.8	10	5/27/2014	RUF	EPA18
Methylene chloride	<10	<10	<10	<10	<2.9	10	5/27/2014	RUF	EPA18
n-Heptane	350	351.516	<10	350	86	10	5/27/2014	RUF	EPA18
n-Hexane	480	481.763	<10	480	140	10	5/27/2014	RUF	EPA18
Naphthalene	<10	<10	<10	<10	<1.9	10	5/27/2014	RUF	EPA18
o-Xylene	79	78.566	<10	79	18	10	5/27/2014	RUF	EPA18
Tetrachloroethene	<10	<10	<10	<10	<1.5	10	5/27/2014	RUF	EPA18
Toluene	830	828.925	<10	830	220	10	5/27/2014	RUF	EPA18
trans-1,2-Dichloroethene	<10	<10	<10	<10	<2.5	10	5/27/2014	RUF	EPA18
Trichloroethene	220	224.781	<10	220	42	10	5/27/2014	RUF	EPA18
TRPH (Based on Benzene)	5200	5194.84	<100	5200	1600	100	5/27/2014	RUF	EPA18
Vinyl chloride	<10	<10	<10	<10	<3.9	10	5/27/2014	RUF	EPA18

Client ID: SVE_GAC_INF (052314)	Lab ID: 1405M51-002A	Date Sampled: 5/23/2014	Media: Tedlar Bag	Air Vol.(L): 1					
1,1,1-Trichloroethane	<10	<10	<10	<10	<1.8	10	5/28/2014	RUF	EPA18
1,1-Dichloroethene	<10	<10	<10	<10	<2.5	10	5/28/2014	RUF	EPA18
2-Butanone	<10	<10	<10	<10	<3.4	10	5/28/2014	RUF	EPA18
4-Methyl-2-pentanone	<10	<10	<10	<10	<2.4	10	5/28/2014	RUF	EPA18
Acetone	<10	<10	<10	<10	<4.2	10	5/28/2014	RUF	EPA18
Benzene	<10	<10	<10	<10	<3.1	10	5/28/2014	RUF	EPA18
Carbon tetrachloride	<10	<10	<10	<10	<1.6	10	5/28/2014	RUF	EPA18
Chloroform	<10	<10	<10	<10	<2.0	10	5/28/2014	RUF	EPA18
cis-1,2-Dichloroethene	10	10.165	<10	10	2.6	10	5/28/2014	RUF	EPA18
Diethyl ether	<10	<10	<10	<10	<3.3	10	5/28/2014	RUF	EPA18
Ethylbenzene	33	33.142	<10	33	7.6	10	5/28/2014	RUF	EPA18
Freon 141B	<10	<10	<10	<10	<2.1	10	5/28/2014	RUF	EPA18

Qualifiers:

< Less than the indicated limit of detection (LOD)

H Holding time for preparation or analysis

B Analyte detected in the associated Method Blank

(a) Analysis indicates possible breakthrough; back section result is greater than

10 % of the front section result.

Analytical Results

for

Arcadis

Date: 4-Jun-14

Workorder: 1405M51

Client Reference: Lafarge AS/SVE

Analyte	Concentration					Limit of Detection (ug)	Qual	Date Analyzed	Test Method
	Total (ug)	Front (ug)	Back (ug)	(mg/m3)	(ppm)				
m,p-Xylene	100	101.723	<20	100	23	20	5/28/2014	RUF EPA18	
Methyl tert-butyl ether	<10	<10	<10	<10	<2.8	10	5/28/2014	RUF EPA18	
Methylene chloride	<10	<10	<10	<10	<2.9	10	5/28/2014	RUF EPA18	
n-Heptane	120	120.183	<10	120	29	10	5/28/2014	RUF EPA18	
n-Hexane	170	166.877	<10	170	47	10	5/28/2014	RUF EPA18	
Naphthalene	<10	<10	<10	<10	<1.9	10	5/28/2014	RUF EPA18	
o-Xylene	27	26.785	<10	27	6.2	10	5/28/2014	RUF EPA18	
Tetrachloroethene	<10	<10	<10	<10	<1.5	10	5/28/2014	RUF EPA18	
Toluene	280	284.379	<10	280	76	10	5/28/2014	RUF EPA18	
trans-1,2-Dichloroethene	<10	<10	<10	<10	<2.5	10	5/28/2014	RUF EPA18	
Trichloroethene	77	76.941	<10	77	14	10	5/28/2014	RUF EPA18	
TRPH (Based on Benzene)	1800	1802.17	<100	1800	560	100	5/28/2014	RUF EPA18	
Vinyl chloride	<10	<10	<10	<10	<3.9	10	5/28/2014	RUF EPA18	

Client ID:	SVE_GAC_EFF (052314)	Lab ID:	1405M51-003A	Date Sampled:	5/23/2014	Media:	Tedlar Bag	Air Vol.(L):	1
1,1,1-Trichloroethane	<10	<10	<10	<10	<1.8	10	5/28/2014	RUF EPA18	
1,1-Dichloroethene	<10	<10	<10	<10	<2.5	10	5/28/2014	RUF EPA18	
2-Butanone	<10	<10	<10	<10	<3.4	10	5/28/2014	RUF EPA18	
4-Methyl-2-pentanone	<10	<10	<10	<10	<2.4	10	5/28/2014	RUF EPA18	
Acetone	<10	<10	<10	<10	<4.2	10	5/28/2014	RUF EPA18	
Benzene	<10	<10	<10	<10	<3.1	10	5/28/2014	RUF EPA18	
Carbon tetrachloride	<10	<10	<10	<10	<1.6	10	5/28/2014	RUF EPA18	
Chloroform	<10	<10	<10	<10	<2.0	10	5/28/2014	RUF EPA18	
cis-1,2-Dichloroethene	<10	<10	<10	<10	<2.5	10	5/28/2014	RUF EPA18	
Diethyl ether	<10	<10	<10	<10	<3.3	10	5/28/2014	RUF EPA18	
Ethylbenzene	<10	<10	<10	<10	<2.3	10	5/28/2014	RUF EPA18	
Freon 141B	<10	<10	<10	<10	<2.1	10	5/28/2014	RUF EPA18	
m,p-Xylene	<20	<20	<20	<20	<4.6	20	5/28/2014	RUF EPA18	
Methyl tert-butyl ether	<10	<10	<10	<10	<2.8	10	5/28/2014	RUF EPA18	
Methylene chloride	<10	<10	<10	<10	<2.9	10	5/28/2014	RUF EPA18	
n-Heptane	<10	<10	<10	<10	<2.4	10	5/28/2014	RUF EPA18	
n-Hexane	<10	<10	<10	<10	<2.8	10	5/28/2014	RUF EPA18	
Naphthalene	<10	<10	<10	<10	<1.9	10	5/28/2014	RUF EPA18	
o-Xylene	<10	<10	<10	<10	<2.3	10	5/28/2014	RUF EPA18	
Tetrachloroethene	<10	<10	<10	<10	<1.5	10	5/28/2014	RUF EPA18	
Toluene	<10	<10	<10	<10	<2.6	10	5/28/2014	RUF EPA18	
trans-1,2-Dichloroethene	<10	<10	<10	<10	<2.5	10	5/28/2014	RUF EPA18	
Trichloroethene	<10	<10	<10	<10	<1.9	10	5/28/2014	RUF EPA18	
TRPH (Based on Benzene)	<100	<100	<100	<100	<31	100	5/28/2014	RUF EPA18	
Vinyl chloride	<10	<10	<10	<10	<3.9	10	5/28/2014	RUF EPA18	

Qualifiers:

< Less than the indicated limit of detection (LOD)

H Holding time for preparation or analysis

B Analyte detected in the associated Method Blank

(a) Analysis indicates possible breakthrough; back section result is greater than

10 % of the front section result.

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Accuris

Work Order Number 1465451

Checklist completed by [Signature] Date 5-23-14

Carrier name: FedEx UPS Courier Client US Mail Other

Shipping container/cooler in good condition? Yes No Not Present

Custody seals intact on shipping container/cooler? Yes No Not Present

Custody seals intact on sample bottles? Yes No Not Present

Container/Temp Blank temperature in compliance? (4°C±2)* Yes No

Cooler #1 Ambre Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler #5 _____ Cooler #6 _____

Chain of custody present? Yes No

Chain of custody signed when relinquished and received? Yes No

Chain of custody agrees with sample labels? Yes No

Samples in proper container/bottle? Yes No

Sample containers intact? Yes No

Sufficient sample volume for indicated test? Yes No

All samples received within holding time? Yes No

Was TAT marked on the COC? Yes No

Proceed with Standard TAT as per project history? Yes No Not Applicable

Water - VOA vials have zero headspace? No VOA vials submitted Yes No

Water - pH acceptable upon receipt? Yes No Not Applicable

Adjusted? _____ Checked by _____

Sample Condition: Good Other(Explain) _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes No

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

Client: Arcadis
Project: Lafarge AS/SVE
Lab Order: 1405M51

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1405M51-001A	SVE_POST_VLS (052314)	5/23/2014 2:38:00PM	Air	Aromatic Volatiles in Air		05/23/2014	05/27/2014
1405M51-001A	SVE_POST_VLS (052314)	5/23/2014 2:38:00PM	Air	Aromatic Volatiles in Air		05/23/2014	05/28/2014
1405M51-001A	SVE_POST_VLS (052314)	5/23/2014 2:38:00PM	Air	Chlorinated Volatiles in Air		05/23/2014	05/27/2014
1405M51-001A	SVE_POST_VLS (052314)	5/23/2014 2:38:00PM	Air	Volatile Hydrocarbons in Air		05/23/2014	05/27/2014
1405M51-002A	SVE_GAC_INF (052314)	5/23/2014 2:27:00PM	Air	Aromatic Volatiles in Air		05/23/2014	05/28/2014
1405M51-002A	SVE_GAC_INF (052314)	5/23/2014 2:27:00PM	Air	Chlorinated Volatiles in Air		05/23/2014	05/28/2014
1405M51-002A	SVE_GAC_INF (052314)	5/23/2014 2:27:00PM	Air	Volatile Hydrocarbons in Air		05/23/2014	05/28/2014
1405M51-003A	SVE_GAC_EFF (052314)	5/23/2014 2:03:00PM	Air	Aromatic Volatiles in Air		05/23/2014	05/28/2014
1405M51-003A	SVE_GAC_EFF (052314)	5/23/2014 2:03:00PM	Air	Chlorinated Volatiles in Air		05/23/2014	05/28/2014
1405M51-003A	SVE_GAC_EFF (052314)	5/23/2014 2:03:00PM	Air	Volatile Hydrocarbons in Air		05/23/2014	05/28/2014

Client: Arcadis
 Project Name: Lafarge AS/SVE
 Workorder: 1405M51

ANALYTICAL QC SUMMARY REPORT

BatchID: 191531

Sample ID: MB-191531	Client ID:	Units: ug, Total	Prep Date: 05/23/2014	Run No: 268479							
SampleType: MBLK	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 191531	Analysis Date: 05/27/2014	Seq No: 5663262							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane
 1,1-Dichloroethene
 Carbon tetrachloride
 Chloroform
 cis-1,2-Dichloroethene
 Freon 141B
 Methylene chloride
 Tetrachloroethene
 trans-1,2-Dichloroethene
 Trichloroethene
 Vinyl chloride

BRL
 BRL

10
 10
 10
 10
 10
 10
 10
 10
 10
 10
 10

Sample ID: MB-191531	Client ID:	Units: ug, Total	Prep Date: 05/23/2014	Run No: 268480							
SampleType: MBLK	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 191531	Analysis Date: 05/27/2014	Seq No: 5663584							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2-Butanone
 4-Methyl-2-pentanone
 Acetone
 Diethyl ether
 n-Heptane
 n-Hexane

BRL
 BRL
 BRL
 BRL
 BRL
 BRL

10
 10
 10
 10
 10
 10

Sample ID: MB-191531	Client ID:	Units: ug, Total	Prep Date: 05/23/2014	Run No: 268481							
SampleType: MBLK	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 191531	Analysis Date: 05/27/2014	Seq No: 5663661							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene

BRL
 10

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Arcadis
Project Name: Lafarge AS/SVE
Workorder: 1405M51

ANALYTICAL QC SUMMARY REPORT

BatchID: 191531

Sample ID: MB-191531	Client ID:	Units: ug, Total	Prep Date: 05/23/2014	Run No: 268481							
SampleType: MBLK	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 191531	Analysis Date: 05/27/2014	Seq No: 5663661							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethylbenzene
m,p-Xylene
Methyl tert-butyl ether
Naphthalene
o-Xylene
Toluene
TRPH (Based on Benzene)

BRL
BRL
BRL
BRL
BRL
BRL
BRL

10
20
10
10
10
10
100

Sample ID: LCS-191531	Client ID:	Units: ug, Total	Prep Date: 05/23/2014	Run No: 268479							
SampleType: LCS	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 191531	Analysis Date: 05/27/2014	Seq No: 5663263							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane
Carbon tetrachloride
Chloroform
Methylene chloride
Tetrachloroethene
Trichloroethene

109.0
108.9
106.3
108.0
103.8
107.2

10
10
10
10
10
10

100.0
100.0
100.0
100.0
100.0
100.0

109
109
106
108
104
107

85
85
83.2
85
85
85

120
126
120
126
118
122

Sample ID: LCS-191531	Client ID:	Units: ug, Total	Prep Date: 05/23/2014	Run No: 268480							
SampleType: LCS	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 191531	Analysis Date: 05/27/2014	Seq No: 5663587							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2-Butanone
4-Methyl-2-pentanone
Acetone
Diethyl ether
n-Heptane

96.07
103.2
88.70
108.1
111.8

10
10
10
10
10

100.0
100.0
100.0
100.0
100.0

96.1
103
88.7
108
112

74.2
81.5
70.1
79.9
87

120
120
120
120
121

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	

Client: Arcadis
 Project Name: Lafarge AS/SVE
 Workorder: 1405M51

ANALYTICAL QC SUMMARY REPORT

BatchID: 191531

Sample ID: LCS-191531	Client ID:	Units: ug, Total	Prep Date: 05/23/2014	Run No: 268480							
SampleType: LCS	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 191531	Analysis Date: 05/27/2014	Seq No: 5663587							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

n-Hexane 114.7 10 100.0 115 87.1 123

Sample ID: LCS-191531	Client ID:	Units: ug, Total	Prep Date: 05/23/2014	Run No: 268481							
SampleType: LCS	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 191531	Analysis Date: 05/27/2014	Seq No: 5663663							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene 109.4 10 100.0 109 76 123
 Ethylbenzene 108.8 10 100.0 109 80.2 124
 m,p-Xylene 214.6 20 200.0 107 78 123
 Methyl tert-butyl ether 101.3 10 100.0 101 71 120
 Naphthalene 48.26 10 100.0 48.3 34.4 100
 o-Xylene 103.0 10 100.0 103 78 118
 Toluene 107.3 10 100.0 107 78.3 121

Sample ID: LCS-191531-2	Client ID:	Units: ug, Total	Prep Date: 05/23/2014	Run No: 268479							
SampleType: LCS	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 191531	Analysis Date: 05/27/2014	Seq No: 5663267							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene 101.1 10 100.0 101 83.6 119
 cis-1,2-Dichloroethene 106.4 10 100.0 106 84.2 123
 trans-1,2-Dichloroethene 105.7 10 100.0 106 85 120

Sample ID: LCS-191531-3	Client ID:	Units: ug, Total	Prep Date: 05/23/2014	Run No: 268479							
SampleType: LCS	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 191531	Analysis Date: 05/27/2014	Seq No: 5663265							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Vinyl chloride 22.01 10 25.00 88.0 60.4 121

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Arcadis
Project Name: Lafarge AS/SVE
Workorder: 1405M51

ANALYTICAL QC SUMMARY REPORT

BatchID: 191531

Sample ID: LCSD-191531	Client ID:	Units: ug, Total	Prep Date: 05/23/2014	Run No: 268479							
SampleType: LCSD	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 191531	Analysis Date: 05/27/2014	Seq No: 5663264							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	108.3	10	100.0		108	85	120	109.0	0.606	15	
Carbon tetrachloride	108.1	10	100.0		108	85	126	108.9	0.733	15	
Chloroform	106.8	10	100.0		107	83.2	120	106.3	0.465	15	
Methylene chloride	107.1	10	100.0		107	85	126	108.0	0.816	15	
Tetrachloroethene	103.1	10	100.0		103	85	118	103.8	0.693	15	
Trichloroethene	106.0	10	100.0		106	85	122	107.2	1.16	15	

Sample ID: LCSD-191531	Client ID:	Units: ug, Total	Prep Date: 05/23/2014	Run No: 268480							
SampleType: LCSD	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 191531	Analysis Date: 05/27/2014	Seq No: 5663590							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2-Butanone	95.16	10	100.0		95.2	74.2	120	96.07	0.957	15	
4-Methyl-2-pentanone	101.9	10	100.0		102	81.5	120	103.2	1.34	15	
Acetone	87.50	10	100.0		87.5	70.1	120	88.70	1.37	15	
Diethyl ether	107.3	10	100.0		107	79.9	120	108.1	0.804	15	
n-Heptane	110.9	10	100.0		111	87	121	111.8	0.779	15	
n-Hexane	113.7	10	100.0		114	87.1	123	114.7	0.850	15	

Sample ID: LCSD-191531	Client ID:	Units: ug, Total	Prep Date: 05/23/2014	Run No: 268481							
SampleType: LCSD	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 191531	Analysis Date: 05/27/2014	Seq No: 5663665							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene	108.4	10	100.0		108	76	123	109.4	0.853	15	
Ethylbenzene	108.5	10	100.0		109	80.2	124	108.8	0.189	15	
m,p-Xylene	214.1	20	200.0		107	78	123	214.6	0.262	15	
Methyl tert-butyl ether	100.3	10	100.0		100	71	120	101.3	0.934	15	
Naphthalene	48.24	10	100.0		48.2	34.4	100	48.26	0.052	15	
o-Xylene	103.0	10	100.0		103	78	118	103.0	0.061	15	

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Arcadis
Project Name: Lafarge AS/SVE
Workorder: 1405M51

ANALYTICAL QC SUMMARY REPORT

BatchID: 191531

Sample ID: LCSD-191531	Client ID:	Units: ug, Total	Prep Date: 05/23/2014	Run No: 268481							
SampleType: LCSD	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 191531	Analysis Date: 05/27/2014	Seq No: 5663665							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Toluene	106.2	10	100.0		106	78.3	121	107.3	1.03	15	
---------	-------	----	-------	--	-----	------	-----	-------	------	----	--

Sample ID: LCSD-191531-2	Client ID:	Units: ug, Total	Prep Date: 05/23/2014	Run No: 268479							
SampleType: LCSD	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 191531	Analysis Date: 05/27/2014	Seq No: 5663268							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	101.4	10	100.0		101	83.6	119	101.1	0.261	15	
cis-1,2-Dichloroethene	106.6	10	100.0		107	84.2	123	106.4	0.156	15	
trans-1,2-Dichloroethene	105.8	10	100.0		106	85	120	105.7	0.078	15	

Sample ID: LCSD-191531-3	Client ID:	Units: ug, Total	Prep Date: 05/23/2014	Run No: 268479							
SampleType: LCSD	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 191531	Analysis Date: 05/27/2014	Seq No: 5663266							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Vinyl chloride	22.68	10	25.00		90.7	60.4	121	22.01	3.01	19.2	
----------------	-------	----	-------	--	------	------	-----	-------	------	------	--

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
BRL	Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S Spike Recovery outside limits due to matrix	



August 08, 2014

Peter Cornais
Arcadis
2081 Vista Parkway, Suite 200
West Palm Beach FL 33411

TEL: (850) 445-0829
FAX:

RE: Lafarge Road Marking

Dear Peter Cornais:

Order No: 1408310

Analytical Environmental Services, Inc. received 2 samples on 8/5/2014 5:05:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/14-06/30/15.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/15.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Chantelle Kanhai
Project Manager



ANALYTICAL ENVIRONMENTAL SERVICES, INC

3080 Presidential Drive, Atlanta GA 30340-3704

AES

TEL: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1408310

Date: 8/5/14 Page 1 of 1

COMPANY: <u>ARCADIS</u> <u>1000 Cobb Place Blvd, Suite</u>		ADDRESS: <u>1000 Cobb Place Blvd N</u> <u>SUITE 500 A</u> <u>KEMESAW GA 30144</u>			ANALYSIS REQUESTED					Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.	No # of Containers	
PHONE: <u>770-428-9009</u>		FAX:			PRESERVATION (See codes)							
SAMPLED BY: <u>PETER CORNAIS</u>		SIGNATURE:			REMARKS					2		
#	SAMPLE ID	SAMPLED		Grab	Composite	Matrix (See codes)	PRESERVATION (See codes)					
		DATE	TIME									
1	<u>SVE EFF (08052014)</u>	<u>8/5/14</u>	<u>1610</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<u>A</u>	<input checked="" type="checkbox"/>					
2	<u>SVE INF (08052014)</u>	<u>↓</u>	<u>1620</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<u>A</u>	<input checked="" type="checkbox"/>					
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
RELINQUISHED BY:		DATE/TIME: <u>8/5/14 1705</u>	RECEIVED BY: <u>CHANTELLE KANTHALI</u>		DATE/TIME: <u>8/5/14 5:05PM</u>	PROJECT INFORMATION					RECEIPT	
1:			1: <u>CHANTELLE KANTHALI</u>			PROJECT NAME: <u>LAFARGE ROAD MARKINGS</u>					Total # of Containers: <u>2</u>	
2:			2: <u>CHANTELLE KANTHALI</u>			PROJECT #: <u>HT212946-0014</u>					Turnaround Time Request	
3:			3: <u>CHANTELLE KANTHALI</u>			SITE ADDRESS: <u>2675 N MARTIN ST</u> <u>EAST POINT, GA</u>					<input checked="" type="radio"/> Standard 5 Business Days	
SPECIAL INSTRUCTIONS/COMMENTS:		SHIPMENT METHOD			SEND REPORT TO: <u>PETER CORNAIS</u>					<input type="radio"/> 2 Business Day Rush		
		OUT / / VIA:			INVOICE TO: <u>GREGORY SATOMEN</u>					<input type="radio"/> Next Business Day Rush		
		IN <u>CLIENT</u> FedEx UPS MAIL COURIER			IF DIFFERENT FROM ABOVE:					<input type="radio"/> Same Day Rush (auth req.)		
		GREYHOUND OTHER			QUOTE #: _____ PO#: _____					<input type="radio"/> Other _____		
										STATE PROGRAM (if any): _____		
										E-mail? <input checked="" type="radio"/> N; Fax? <input checked="" type="radio"/> Y		
										DATA PACKAGE: I II III IV		

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES. SAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMPLETION UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water
PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

Analytical Results

for

Arcadis

Date: 8-Aug-14

Workorder: 1408310

Client Reference: Lafarge Road Marking

Analyte	Concentration					Limit of Detection (ug)	Qual	Date Analyzed /Analyst	Test Method
	Total (ug)	Front (ug)	Back (ug)	(mg/m3)	(ppm)				
Client ID: SVE EFF (08052014)	Lab ID: 1408310-001A		Date Sampled: 8/5/2014		Media: Tedlar Bag		Air Vol.(L): 1		
1,1,1-Trichloroethane	<10	<10	<10	<10	<1.8	10	8/6/2014	JMA	EPA18
1,1-Dichloroethene	<10	<10	<10	<10	<2.5	10	8/6/2014	JMA	EPA18
2-Butanone	<10	<10	<10	<10	<3.4	10	8/6/2014	JMA	EPA18
4-Methyl-2-pentanone	<10	<10	<10	<10	<2.4	10	8/6/2014	JMA	EPA18
Acetone	<10	<10	<10	<10	<4.2	10	8/6/2014	JMA	EPA18
Benzene	<10	<10	<10	<10	<3.1	10	8/6/2014	JMA	EPA18
Carbon tetrachloride	<10	<10	<10	<10	<1.6	10	8/6/2014	JMA	EPA18
Chloroform	<10	<10	<10	<10	<2.0	10	8/6/2014	JMA	EPA18
cis-1,2-Dichloroethene	<10	<10	<10	<10	<2.5	10	8/6/2014	JMA	EPA18
Diethyl ether	<10	<10	<10	<10	<3.3	10	8/6/2014	JMA	EPA18
Ethylbenzene	<10	<10	<10	<10	<2.3	10	8/6/2014	JMA	EPA18
Freon 141B	<10	<10	<10	<10	<2.1	10	8/6/2014	JMA	EPA18
m,p-Xylene	<20	<20	<20	<20	<4.6	20	8/6/2014	JMA	EPA18
Methyl tert-butyl ether	<10	<10	<10	<10	<2.8	10	8/6/2014	JMA	EPA18
Methylene chloride	<10	<10	<10	<10	<2.9	10	8/6/2014	JMA	EPA18
n-Heptane	<10	<10	<10	<10	<2.4	10	8/6/2014	JMA	EPA18
n-Hexane	<10	<10	<10	<10	<2.8	10	8/6/2014	JMA	EPA18
Naphthalene	<10	<10	<10	<10	<1.9	10	8/6/2014	JMA	EPA18
o-Xylene	<10	<10	<10	<10	<2.3	10	8/6/2014	JMA	EPA18
Tetrachloroethene	<10	<10	<10	<10	<1.5	10	8/6/2014	JMA	EPA18
Toluene	<10	<10	<10	<10	<2.6	10	8/6/2014	JMA	EPA18
trans-1,2-Dichloroethene	<10	<10	<10	<10	<2.5	10	8/6/2014	JMA	EPA18
Trichloroethene	<10	<10	<10	<10	<1.9	10	8/6/2014	JMA	EPA18
TRPH (Based on Benzene)	<100	<100	<100	<100	<31	100	8/6/2014	JMA	EPA18
Vinyl chloride	<10	<10	<10	<10	<3.9	10	8/6/2014	JMA	EPA18

Client ID: SVE INF (08052014)	Lab ID: 1408310-002A		Date Sampled: 8/5/2014		Media: Tedlar Bag		Air Vol.(L): 1		
1,1,1-Trichloroethane	<10	<10	<10	<10	<1.8	10	8/6/2014	JMA	EPA18
1,1-Dichloroethene	<10	<10	<10	<10	<2.5	10	8/6/2014	JMA	EPA18
2-Butanone	<10	<10	<10	<10	<3.4	10	8/6/2014	JMA	EPA18
4-Methyl-2-pentanone	<10	<10	<10	<10	<2.4	10	8/6/2014	JMA	EPA18
Acetone	<10	<10	<10	<10	<4.2	10	8/6/2014	JMA	EPA18
Benzene	20	20.468	<10	20	6.4	10	8/7/2014	JMA	EPA18
Carbon tetrachloride	<10	<10	<10	<10	<1.6	10	8/6/2014	JMA	EPA18
Chloroform	<10	<10	<10	<10	<2.0	10	8/6/2014	JMA	EPA18
cis-1,2-Dichloroethene	18	18.119	<10	18	4.6	10	8/6/2014	JMA	EPA18
Diethyl ether	<10	<10	<10	<10	<3.3	10	8/6/2014	JMA	EPA18
Ethylbenzene	53	53.125	<10	53	12	10	8/6/2014	JMA	EPA18
Freon 141B	<10	<10	<10	<10	<2.1	10	8/6/2014	JMA	EPA18

Qualifiers:

< Less than the indicated limit of detection (LOD)

H Holding time for preparation or analysis

B Analyte detected in the associated Method Blank

(a) Analysis indicates possible breakthrough; back section result is greater than

10 % of the front section result.

**Analytical Results
for**

Arcadis

Date: 8-Aug-14

Workorder: 1408310

Client Reference: Lafarge Road Marking

Analyte	Concentration					Limit of Detection (ug)	Qual	Date Analyzed	/Analyst	Test Method
	Total (ug)	Front (ug)	Back (ug)	(mg/m3)	(ppm)					
m,p-Xylene	210	214.676	<20	210	49	20		8/6/2014	JMA	EPA18
Methyl tert-butyl ether	<10	<10	<10	<10	<2.8	10		8/6/2014	JMA	EPA18
Methylene chloride	<10	<10	<10	<10	<2.9	10		8/6/2014	JMA	EPA18
n-Heptane	250	250.737	<10	250	61	10		8/6/2014	JMA	EPA18
n-Hexane	410	412.013	<10	410	120	10		8/6/2014	JMA	EPA18
Naphthalene	<10	<10	<10	<10	<1.9	10		8/6/2014	JMA	EPA18
o-Xylene	42	42.068	<10	42	9.7	10		8/6/2014	JMA	EPA18
Tetrachloroethene	<10	<10	<10	<10	<1.5	10		8/6/2014	JMA	EPA18
Toluene	440	442.484	<10	440	120	10		8/6/2014	JMA	EPA18
trans-1,2-Dichloroethene	<10	<10	<10	<10	<2.5	10		8/6/2014	JMA	EPA18
Trichloroethene	130	131.992	<10	130	25	10		8/6/2014	JMA	EPA18
TRPH (Based on Benzene)	3700	3689.65	<100	3700	1200	100		8/6/2014	JMA	EPA18
Vinyl chloride	<10	<10	<10	<10	<3.9	10		8/6/2014	JMA	EPA18

Qualifiers:

< Less than the indicated limit of detection (LOD)

H Holding time for preparation or analysis

B Analyte detected in the associated Method Blank

(a) Analysis indicates possible breakthrough; back section result is greater than

10 % of the front section result.

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Arcadis

Work Order Number 1408310

Checklist completed by [Signature] 8/5/14
Signature Date

Carrier name: FedEx UPS Courier Client US Mail Other

Shipping container/cooler in good condition? Yes No Not Present
Custody seals intact on shipping container/cooler? Yes No Not Present
Custody seals intact on sample bottles? [Signature] Yes No Not Present
Container/Temp Blank temperature in compliance? 8/5/14 (4°C-2) Yes No

Cooler #1 amb Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler #5 _____ Cooler #6 _____

Chain of custody present? Yes No
Chain of custody signed when relinquished and received? Yes No
Chain of custody agrees with sample labels? Yes No
Samples in proper container/bottle? Yes No
Sample containers intact? Yes No
Sufficient sample volume for indicated test? Yes No
All samples received within holding time? Yes No
Was TAT marked on the COC? Yes No
Proceed with Standard TAT as per project history? Yes No Not Applicable
Water - VOA vials have zero headspace? No VOA vials submitted Yes No
Water - pH acceptable upon receipt? Yes No Not Applicable

Adjusted? _____ Checked by _____
Sample Condition: Good Other(Explain) _____
(For diffusive samples or AIHA lead) Is a known blank included? Yes No

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

Client: Arcadis
Project: Lafarge Road Marking
Lab Order: 1408310

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1408310-001A	SVE EFF (08052014)	8/5/2014 4:10:00PM	Air	Aromatic Volatiles in Air		08/06/2014	08/06/2014
1408310-001A	SVE EFF (08052014)	8/5/2014 4:10:00PM	Air	Chlorinated Volatiles in Air		08/06/2014	08/06/2014
1408310-001A	SVE EFF (08052014)	8/5/2014 4:10:00PM	Air	Volatile Hydrocarbons in Air		08/06/2014	08/06/2014
1408310-002A	SVE INF (08052014)	8/5/2014 4:20:00PM	Air	Aromatic Volatiles in Air		08/06/2014	08/06/2014
1408310-002A	SVE INF (08052014)	8/5/2014 4:20:00PM	Air	Aromatic Volatiles in Air		08/06/2014	08/07/2014
1408310-002A	SVE INF (08052014)	8/5/2014 4:20:00PM	Air	Chlorinated Volatiles in Air		08/06/2014	08/06/2014
1408310-002A	SVE INF (08052014)	8/5/2014 4:20:00PM	Air	Volatile Hydrocarbons in Air		08/06/2014	08/06/2014

Client: Arcadis
 Project Name: Lafarge Road Marking
 Workorder: 1408310

ANALYTICAL QC SUMMARY REPORT

BatchID: 194511

Sample ID: MB-194511	Client ID:	Units: ug, Total	Prep Date: 08/06/2014	Run No: 273211							
SampleType: MBLK	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 194511	Analysis Date: 08/06/2014	Seq No: 5765162							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane
 1,1-Dichloroethene
 Carbon tetrachloride
 Chloroform
 cis-1,2-Dichloroethene
 Freon 141B
 Methylene chloride
 Tetrachloroethene
 trans-1,2-Dichloroethene
 Trichloroethene
 Vinyl chloride

BRL
 BRL

10
 10
 10
 10
 10
 10
 10
 10
 10
 10
 10

Sample ID: MB-194511	Client ID:	Units: ug, Total	Prep Date: 08/06/2014	Run No: 273213							
SampleType: MBLK	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 194511	Analysis Date: 08/06/2014	Seq No: 5765337							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2-Butanone
 4-Methyl-2-pentanone
 Acetone
 Diethyl ether
 n-Heptane
 n-Hexane

BRL
 BRL
 BRL
 BRL
 BRL
 BRL

10
 10
 10
 10
 10
 10

Sample ID: MB-194511	Client ID:	Units: ug, Total	Prep Date: 08/06/2014	Run No: 273214							
SampleType: MBLK	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 194511	Analysis Date: 08/06/2014	Seq No: 5765401							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene

BRL
 10

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Arcadis
 Project Name: Lafarge Road Marking
 Workorder: 1408310

ANALYTICAL QC SUMMARY REPORT

BatchID: 194511

Sample ID: MB-194511	Client ID:	Units: ug, Total	Prep Date: 08/06/2014	Run No: 273214							
SampleType: MBLK	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 194511	Analysis Date: 08/06/2014	Seq No: 5765401							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethylbenzene
 m,p-Xylene
 Methyl tert-butyl ether
 Naphthalene
 o-Xylene
 Toluene
 TRPH (Based on Benzene)

BRL
 BRL
 BRL
 BRL
 BRL
 BRL
 BRL

10
 20
 10
 10
 10
 10
 100

Sample ID: LCS-194511	Client ID:	Units: ug, Total	Prep Date: 08/06/2014	Run No: 273211							
SampleType: LCS	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 194511	Analysis Date: 08/06/2014	Seq No: 5765164							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane
 Carbon tetrachloride
 Chloroform
 Methylene chloride
 Tetrachloroethene
 Trichloroethene

107.6
 110.1
 104.2
 103.2
 105.1
 109.9

10
 10
 10
 10
 10
 10

100.0
 100.0
 100.0
 100.0
 100.0
 100.0

108
 110
 104
 103
 105
 110

85
 85
 83.2
 85
 85
 85

120
 126
 120
 126
 118
 122

Sample ID: LCS-194511	Client ID:	Units: ug, Total	Prep Date: 08/06/2014	Run No: 273213							
SampleType: LCS	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 194511	Analysis Date: 08/06/2014	Seq No: 5765340							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2-Butanone
 4-Methyl-2-pentanone
 Acetone
 Diethyl ether
 n-Heptane

94.18
 101.9
 78.74
 100.3
 109.4

10
 10
 10
 10
 10

100.0
 100.0
 100.0
 100.0
 100.0

94.2
 102
 78.7
 100
 109

74.2
 81.5
 70.1
 79.9
 87

120
 120
 120
 120
 121

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	

Client: Arcadis
Project Name: Lafarge Road Marking
Workorder: 1408310

ANALYTICAL QC SUMMARY REPORT

BatchID: 194511

Sample ID: LCS-194511	Client ID:	Units: ug, Total	Prep Date: 08/06/2014	Run No: 273213							
SampleType: LCS	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 194511	Analysis Date: 08/06/2014	Seq No: 5765340							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

n-Hexane 109.9 10 100.0 110 87.1 123

Sample ID: LCS-194511	Client ID:	Units: ug, Total	Prep Date: 08/06/2014	Run No: 273214							
SampleType: LCS	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 194511	Analysis Date: 08/06/2014	Seq No: 5765407							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene 108.0 10 100.0 108 76 123
 Ethylbenzene 110.3 10 100.0 110 80.2 124
 m,p-Xylene 217.1 20 200.0 109 78 123
 Methyl tert-butyl ether 89.19 10 100.0 89.2 71 120
 Naphthalene 49.60 10 100.0 49.6 34.4 100
 o-Xylene 102.8 10 100.0 103 78 118
 Toluene 107.4 10 100.0 107 78.3 121

Sample ID: LCS-194511-2	Client ID:	Units: ug, Total	Prep Date: 08/06/2014	Run No: 273211							
SampleType: LCS	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 194511	Analysis Date: 08/06/2014	Seq No: 5765168							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene 96.80 10 100.0 96.8 83.6 119
 cis-1,2-Dichloroethene 104.6 10 100.0 105 84.2 123
 trans-1,2-Dichloroethene 103.3 10 100.0 103 85 120

Sample ID: LCS-194511-3	Client ID:	Units: ug, Total	Prep Date: 08/06/2014	Run No: 273211							
SampleType: LCS	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 194511	Analysis Date: 08/06/2014	Seq No: 5765170							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Vinyl chloride 20.71 10 25.00 82.8 60.4 121

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Arcadis
Project Name: Lafarge Road Marking
Workorder: 1408310

ANALYTICAL QC SUMMARY REPORT

BatchID: 194511

Sample ID: LCSD-194511	Client ID:	Units: ug, Total	Prep Date: 08/06/2014	Run No: 273211							
SampleType: LCSD	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 194511	Analysis Date: 08/06/2014	Seq No: 5765166							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	110.1	10	100.0		110	85	120	107.6	2.35	15	
Carbon tetrachloride	113.4	10	100.0		113	85	126	110.1	2.94	15	
Chloroform	106.7	10	100.0		107	83.2	120	104.2	2.41	15	
Methylene chloride	103.9	10	100.0		104	85	126	103.2	0.668	15	
Tetrachloroethene	107.4	10	100.0		107	85	118	105.1	2.20	15	
Trichloroethene	111.9	10	100.0		112	85	122	109.9	1.79	15	

Sample ID: LCSD-194511	Client ID:	Units: ug, Total	Prep Date: 08/06/2014	Run No: 273213							
SampleType: LCSD	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 194511	Analysis Date: 08/06/2014	Seq No: 5765344							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2-Butanone	95.78	10	100.0		95.8	74.2	120	94.18	1.69	15	
4-Methyl-2-pentanone	103.1	10	100.0		103	81.5	120	101.9	1.22	15	
Acetone	79.56	10	100.0		79.6	70.1	120	78.74	1.04	15	
Diethyl ether	101.4	10	100.0		101	79.9	120	100.3	1.05	15	
n-Heptane	111.8	10	100.0		112	87	121	109.4	2.10	15	
n-Hexane	112.0	10	100.0		112	87.1	123	109.9	1.84	15	

Sample ID: LCSD-194511	Client ID:	Units: ug, Total	Prep Date: 08/06/2014	Run No: 273214							
SampleType: LCSD	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 194511	Analysis Date: 08/06/2014	Seq No: 5765411							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene	110.2	10	100.0		110	76	123	108.0	1.93	15	
Ethylbenzene	112.4	10	100.0		112	80.2	124	110.3	1.83	15	
m,p-Xylene	221.2	20	200.0		111	78	123	217.1	1.87	15	
Methyl tert-butyl ether	90.41	10	100.0		90.4	71	120	89.19	1.37	15	
Naphthalene	50.68	10	100.0		50.7	34.4	100	49.60	2.14	15	
o-Xylene	104.7	10	100.0		105	78	118	102.8	1.89	15	

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Arcadis
Project Name: Lafarge Road Marking
Workorder: 1408310

ANALYTICAL QC SUMMARY REPORT

BatchID: 194511

Sample ID: LCSD-194511	Client ID:	Units: ug, Total	Prep Date: 08/06/2014	Run No: 273214							
SampleType: LCSD	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 194511	Analysis Date: 08/06/2014	Seq No: 5765411							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Toluene	109.0	10	100.0		109	78.3	121	107.4	1.49	15	
---------	-------	----	-------	--	-----	------	-----	-------	------	----	--

Sample ID: LCSD-194511-2	Client ID:	Units: ug, Total	Prep Date: 08/06/2014	Run No: 273211							
SampleType: LCSD	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 194511	Analysis Date: 08/06/2014	Seq No: 5765169							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	98.96	10	100.0		99.0	83.6	119	96.80	2.20	15	
cis-1,2-Dichloroethene	107.0	10	100.0		107	84.2	123	104.6	2.30	15	
trans-1,2-Dichloroethene	106.5	10	100.0		107	85	120	103.3	3.01	15	

Sample ID: LCSD-194511-3	Client ID:	Units: ug, Total	Prep Date: 08/06/2014	Run No: 273211							
SampleType: LCSD	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 194511	Analysis Date: 08/06/2014	Seq No: 5765173							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Vinyl chloride	19.92	10	25.00		79.7	60.4	121	20.71	3.85	19.2	
----------------	-------	----	-------	--	------	------	-----	-------	------	------	--

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
BRL	Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S Spike Recovery outside limits due to matrix	



October 01, 2014

Greg Sitomer
Arcadis
8201 Peters Road, Suite 3400
Plantation FL 33323

TEL: (954) 712-4208
FAX:

RE: Lafarge

Dear Greg Sitomer:

Order No: 1409M21

Analytical Environmental Services, Inc. received 1 samples on 9/24/2014 1:27:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/14-06/30/15.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/15.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Chantelle Kanhai
Project Manager

Analytical Results

for

Arcadis

Date: 6-Oct-14

Workorder: 1409M21

Client Reference: Lafarge

Analyte	Concentration					Limit of Detection (ug)	Qual	Date Analyzed /Analyst	Test Method
	Total (ug)	Front (ug)	Back (ug)	(mg/m3)	(ppm)				
Client ID: SVE-GAC-EFF (092314)	Lab ID: 1409M21-001A		Date Sampled: 9/23/2014		Media: Tedlar Bag	Air Vol.(L): 1			
1,1,1-Trichloroethane	<10	<10	<10	<10	<1.8	10	9/29/2014	JMA	EPA18
1,1-Dichloroethene	<10	<10	<10	<10	<2.5	10	9/29/2014	JMA	EPA18
2-Butanone	<10	<10	<10	<10	<3.4	10	9/29/2014	JMA	EPA18
4-Methyl-2-pentanone	<10	<10	<10	<10	<2.4	10	9/29/2014	JMA	EPA18
Acetone	<10	<10	<10	<10	<4.2	10	9/29/2014	JMA	EPA18
Benzene	<10	<10	<10	<10	<3.1	10	9/29/2014	JMA	EPA18
Carbon tetrachloride	<10	<10	<10	<10	<1.6	10	9/29/2014	JMA	EPA18
Chloroform	<10	<10	<10	<10	<2.0	10	9/29/2014	JMA	EPA18
cis-1,2-Dichloroethene	<10	<10	<10	<10	<2.5	10	9/29/2014	JMA	EPA18
Diethyl ether	<10	<10	<10	<10	<3.3	10	9/29/2014	JMA	EPA18
Ethylbenzene	<10	<10	<10	<10	<2.3	10	9/29/2014	JMA	EPA18
Freon 141B	<10	<10	<10	<10	<2.1	10	9/29/2014	JMA	EPA18
m,p-Xylene	21	21.445	<20	21	4.9	20	9/29/2014	JMA	EPA18
Methyl tert-butyl ether	<10	<10	<10	<10	<2.8	10	9/29/2014	JMA	EPA18
Methylene chloride	<10	<10	<10	<10	<2.9	10	9/29/2014	JMA	EPA18
n-Heptane	<10	<10	<10	<10	<2.4	10	9/29/2014	JMA	EPA18
n-Hexane	<10	<10	<10	<10	<2.8	10	9/29/2014	JMA	EPA18
Naphthalene	<10	<10	<10	<10	<1.9	10	9/29/2014	JMA	EPA18
o-Xylene	<10	<10	<10	<10	<2.3	10	9/29/2014	JMA	EPA18
Tetrachloroethene	<10	<10	<10	<10	<1.5	10	9/29/2014	JMA	EPA18
Toluene	16	15.542	<10	16	4.1	10	9/29/2014	JMA	EPA18
trans-1,2-Dichloroethene	<10	<10	<10	<10	<2.5	10	9/29/2014	JMA	EPA18
Trichloroethene	<10	<10	<10	<10	<1.9	10	9/29/2014	JMA	EPA18
TRPH (Based on Benzene)	380	382.276	<100	380	120	100	9/29/2014	JMA	EPA18
Vinyl chloride	<10	<10	<10	<10	<3.9	10	9/29/2014	JMA	EPA18

Qualifiers:

< Less than the indicated limit of detection (LOD)

H Holding time for preparation or analysis

B Analyte detected in the associated Method Blank

(a) Analysis indicates possible breakthrough; back section result is greater than

10 % of the front section result.

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Arcades

Work Order Number 1409M21

Checklist completed by [Signature] 9/24/14
Signature Date

Carrier name: FedEx UPS Courier Client US Mail Other

Shipping container/cooler in good condition? Yes No Not Present

Custody seals intact on shipping container/cooler? Yes No Not Present

Custody seals intact on sample bottles? Yes No Not Present

Container/Temp Blank temperature in compliance? (0°-6°C)* Yes No

Cooler #1 Ambient Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler #5 _____ Cooler #6 _____

Chain of custody present? Yes No

Chain of custody signed when relinquished and received? Yes No

Chain of custody agrees with sample labels? Yes No

Samples in proper container/bottle? Yes No

Sample containers intact? Yes No

Sufficient sample volume for indicated test? Yes No

All samples received within holding time? Yes No

Was TAT marked on the COC? Yes No

Proceed with Standard TAT as per project history? Yes No Not Applicable

Water - VOA vials have zero headspace? No VOA vials submitted Yes No

Water - pH acceptable upon receipt? Yes No Not Applicable

Adjusted? _____ Checked by _____

Sample Condition: Good Other(Explain) _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes No

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

Client: Arcadis
 Project: Lafarge
 Lab Order: 1409M21

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1409M21-001A	SVE-GAC-EFF (092314)	9/23/2014 8:27:00PM	Air	Aromatic Volatiles in Air		09/26/2014	09/29/2014
1409M21-001A	SVE-GAC-EFF (092314)	9/23/2014 8:27:00PM	Air	Chlorinated Volatiles in Air		09/26/2014	09/29/2014
1409M21-001A	SVE-GAC-EFF (092314)	9/23/2014 8:27:00PM	Air	Volatile Hydrocarbons in Air		09/26/2014	09/29/2014

Client: Arcadis
 Project Name: Lafarge
 Workorder: 1409M21

ANALYTICAL QC SUMMARY REPORT

BatchID: 196867

Sample ID: MB-196867	Client ID:	Units: ug, Total	Prep Date: 09/26/2014	Run No: 276740							
SampleType: MBLK	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 196867	Analysis Date: 09/29/2014	Seq No: 5846302							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2-Butanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	10									
Diethyl ether	BRL	10									
n-Heptane	BRL	10									
n-Hexane	BRL	10									

Sample ID: MB-196867	Client ID:	Units: ug, Total	Prep Date: 09/26/2014	Run No: 276741							
SampleType: MBLK	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 196867	Analysis Date: 09/29/2014	Seq No: 5846427							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene	BRL	10									
Ethylbenzene	BRL	10									
m,p-Xylene	BRL	20									
Methyl tert-butyl ether	BRL	10									
Naphthalene	BRL	10									
o-Xylene	BRL	10									
Toluene	BRL	10									
TRPH (Based on Benzene)	BRL	100									

Sample ID: MB-196867	Client ID:	Units: ug, Total	Prep Date: 09/26/2014	Run No: 276739							
SampleType: MBLK	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 196867	Analysis Date: 09/29/2014	Seq No: 5846461							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	BRL	10									
1,1-Dichloroethene	BRL	10									
Carbon tetrachloride	BRL	10									
Chloroform	BRL	10									

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
 Project Name: Lafarge
 Workorder: 1409M21

ANALYTICAL QC SUMMARY REPORT

BatchID: 196867

Sample ID: MB-196867	Client ID:	Units: ug, Total	Prep Date: 09/26/2014	Run No: 276739							
SampleType: MBLK	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 196867	Analysis Date: 09/29/2014	Seq No: 5846461							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

cis-1,2-Dichloroethene
 Freon 141B
 Methylene chloride
 Tetrachloroethene
 trans-1,2-Dichloroethene
 Trichloroethene
 Vinyl chloride

BRL
 BRL
 BRL
 BRL
 BRL
 BRL
 BRL

10
 10
 10
 10
 10
 10
 10

Sample ID: LCS-196867	Client ID:	Units: ug, Total	Prep Date: 09/26/2014	Run No: 276740							
SampleType: LCS	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 196867	Analysis Date: 09/30/2014	Seq No: 5846322							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2-Butanone
 4-Methyl-2-pentanone
 Acetone
 Diethyl ether
 n-Heptane
 n-Hexane

86.90
 92.27
 76.10
 96.89
 101.8
 104.9

10
 10
 10
 10
 10
 10

100.0
 100.0
 100.0
 100.0
 100.0
 100.0

86.9
 92.3
 76.1
 96.9
 102
 105

74.2
 81.5
 70.1
 79.9
 87
 87.1

120
 120
 120
 120
 121
 123

Sample ID: LCS-196867	Client ID:	Units: ug, Total	Prep Date: 09/26/2014	Run No: 276741							
SampleType: LCS	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 196867	Analysis Date: 09/30/2014	Seq No: 5846451							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene
 Ethylbenzene
 m,p-Xylene
 Methyl tert-butyl ether
 Naphthalene

104.0
 100.2
 197.8
 84.73
 47.82

10
 10
 20
 10
 10

100.0
 100.0
 200.0
 100.0
 100.0

104
 100
 98.9
 84.7
 47.8

76
 80.2
 78
 71
 34.4

123
 124
 123
 120
 100

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	

Client: Arcadis
Project Name: Lafarge
Workorder: 1409M21

ANALYTICAL QC SUMMARY REPORT

BatchID: 196867

Sample ID: LCS-196867	Client ID:	Units: ug, Total	Prep Date: 09/26/2014	Run No: 276741							
SampleType: LCS	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 196867	Analysis Date: 09/30/2014	Seq No: 5846451							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

o-Xylene	93.37	10	100.0		93.4	78	118				
Toluene	98.92	10	100.0		98.9	78.3	121				

Sample ID: LCS-196867	Client ID:	Units: ug, Total	Prep Date: 09/26/2014	Run No: 276739							
SampleType: LCS	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 196867	Analysis Date: 09/30/2014	Seq No: 5846468							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	99.85	10	100.0		99.9	85	120				
Carbon tetrachloride	102.0	10	100.0		102	85	126				
Chloroform	96.80	10	100.0		96.8	83.2	120				
Methylene chloride	100.3	10	100.0		100	85	126				
Tetrachloroethene	97.73	10	100.0		97.7	85	118				
Trichloroethene	105.0	10	100.0		105	85	122				

Sample ID: LCS-196867-2	Client ID:	Units: ug, Total	Prep Date: 09/26/2014	Run No: 276739							
SampleType: LCS	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 196867	Analysis Date: 09/30/2014	Seq No: 5846470							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	100.0	10	100.0		100	83.6	119				
cis-1,2-Dichloroethene	103.7	10	100.0		104	84.2	123				
trans-1,2-Dichloroethene	104.0	10	100.0		104	85	120				

Sample ID: LCS-196867-3	Client ID:	Units: ug, Total	Prep Date: 09/26/2014	Run No: 276739							
SampleType: LCS	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 196867	Analysis Date: 09/30/2014	Seq No: 5846472							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Vinyl chloride	20.58	10	25.00		82.3	60.4	121				
----------------	-------	----	-------	--	------	------	-----	--	--	--	--

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
 Project Name: Lafarge
 Workorder: 1409M21

ANALYTICAL QC SUMMARY REPORT

BatchID: 196867

Sample ID: LCS D-196867	Client ID:	Units: ug, Total	Prep Date: 09/26/2014	Run No: 276740							
SampleType: LCS D	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 196867	Analysis Date: 09/30/2014	Seq No: 5846323							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2-Butanone	88.68	10	100.0		88.7	74.2	120	86.90	2.03	15	
4-Methyl-2-pentanone	94.54	10	100.0		94.5	81.5	120	92.27	2.44	15	
Acetone	76.61	10	100.0		76.6	70.1	120	76.10	0.678	15	
Diethyl ether	97.99	10	100.0		98.0	79.9	120	96.89	1.12	15	
n-Heptane	103.2	10	100.0		103	87	121	101.8	1.35	15	
n-Hexane	105.8	10	100.0		106	87.1	123	104.9	0.867	15	

Sample ID: LCS D-196867	Client ID:	Units: ug, Total	Prep Date: 09/26/2014	Run No: 276741							
SampleType: LCS D	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 196867	Analysis Date: 09/30/2014	Seq No: 5846453							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene	102.4	10	100.0		102	76	123	104.0	1.56	15	
Ethylbenzene	103.2	10	100.0		103	80.2	124	100.2	2.98	15	
m,p-Xylene	203.4	20	200.0		102	78	123	197.8	2.76	15	
Methyl tert-butyl ether	85.45	10	100.0		85.4	71	120	84.73	0.841	15	
Naphthalene	44.00	10	100.0		44.0	34.4	100	47.82	8.33	15	
o-Xylene	95.33	10	100.0		95.3	78	118	93.37	2.08	15	
Toluene	100.9	10	100.0		101	78.3	121	98.92	2.03	15	

Sample ID: LCS D-196867	Client ID:	Units: ug, Total	Prep Date: 09/26/2014	Run No: 276739							
SampleType: LCS D	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 196867	Analysis Date: 09/30/2014	Seq No: 5846469							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	102.4	10	100.0		102	85	120	99.85	2.50	15	
Carbon tetrachloride	104.2	10	100.0		104	85	126	102.0	2.14	15	
Chloroform	99.34	10	100.0		99.3	83.2	120	96.80	2.60	15	
Methylene chloride	101.7	10	100.0		102	85	126	100.3	1.43	15	
Tetrachloroethene	99.53	10	100.0		99.5	85	118	97.73	1.83	15	

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Arcadis
 Project Name: Lafarge
 Workorder: 1409M21

ANALYTICAL QC SUMMARY REPORT

BatchID: 196867

Sample ID: LCSD-196867	Client ID:	Units: ug, Total	Prep Date: 09/26/2014	Run No: 276739							
SampleType: LCSD	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 196867	Analysis Date: 09/30/2014	Seq No: 5846469							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Trichloroethene	104.5	10	100.0		105	85	122	105.0	0.498	15	
-----------------	-------	----	-------	--	-----	----	-----	-------	-------	----	--

Sample ID: LCSD-196867-2	Client ID:	Units: ug, Total	Prep Date: 09/26/2014	Run No: 276739							
SampleType: LCSD	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 196867	Analysis Date: 09/30/2014	Seq No: 5846471							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	98.42	10	100.0		98.4	83.6	119	100.0	1.60	15	
cis-1,2-Dichloroethene	101.9	10	100.0		102	84.2	123	103.7	1.73	15	
trans-1,2-Dichloroethene	102.9	10	100.0		103	85	120	104.0	1.10	15	

Sample ID: LCSD-196867-3	Client ID:	Units: ug, Total	Prep Date: 09/26/2014	Run No: 276739							
SampleType: LCSD	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 196867	Analysis Date: 09/30/2014	Seq No: 5846473							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Vinyl chloride	20.28	10	25.00		81.1	60.4	121	20.58	1.47	19.2	
----------------	-------	----	-------	--	------	------	-----	-------	------	------	--

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

October 23, 2014

Greg Sitomer
Arcadis
1000 Cobb Place Blvd., Bldg. 500-A
Kennesaw GA 30144

TEL: (770) 431-8666
FAX: (770) 435-2666

RE: Lafarge Paint Marking

Dear Greg Sitomer:

Order No: 1410J18

Analytical Environmental Services, Inc. received 2 samples on 10/21/2014 12:50:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/14-06/30/15.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/15.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Chantelle Kanhai
Project Manager

Analytical Results

for

Arcadis

Date: 23-Oct-14

Workorder: 1410J18

Client Reference: Lafarge Paint Marking

Analyte	Concentration					Limit of Detection (ug)	Qual	Date Analyzed /Analyst	Test Method
	Total (ug)	Front (ug)	Back (ug)	(mg/m3)	(ppm)				
Client ID: INFLUENT C3 (102114)	Lab ID: 1410J18-001A		Date Sampled: 10/21/2014		Media: Tedlar Bag	Air Vol.(L): 1			
1,1,1-Trichloroethane	<10	<10	<10	<10	<1.8	10	10/22/2014	JMA	EPA18
1,1-Dichloroethene	<10	<10	<10	<10	<2.5	10	10/22/2014	JMA	EPA18
2-Butanone	<10	<10	<10	<10	<3.4	10	10/22/2014	JMA	EPA18
4-Methyl-2-pentanone	<10	<10	<10	<10	<2.4	10	10/22/2014	JMA	EPA18
Acetone	<10	<10	<10	<10	<4.2	10	10/22/2014	JMA	EPA18
Benzene	50	49.734	<10	50	16	10	10/22/2014	JMA	EPA18
Carbon tetrachloride	<10	<10	<10	<10	<1.6	10	10/22/2014	JMA	EPA18
Chloroform	<10	<10	<10	<10	<2.0	10	10/22/2014	JMA	EPA18
cis-1,2-Dichloroethene	260	263.357	<10	260	66	10	10/22/2014	JMA	EPA18
Diethyl ether	<10	<10	<10	<10	<3.3	10	10/22/2014	JMA	EPA18
Ethylbenzene	37	37.117	<10	37	8.6	10	10/22/2014	JMA	EPA18
Freon 141B	<10	<10	<10	<10	<2.1	10	10/22/2014	JMA	EPA18
m,p-Xylene	160	164.087	<20	160	38	20	10/22/2014	JMA	EPA18
Methyl tert-butyl ether	<10	<10	<10	<10	<2.8	10	10/22/2014	JMA	EPA18
Methylene chloride	<10	<10	<10	<10	<2.9	10	10/22/2014	JMA	EPA18
n-Heptane	360	357.357	<10	360	87	10	10/22/2014	JMA	EPA18
n-Hexane	1600	1632.7	<10	1600	460	10	10/22/2014	JMA	EPA18
Naphthalene	<10	<10	<10	<10	<1.9	10	10/22/2014	JMA	EPA18
o-Xylene	36	35.799	<10	36	8.2	10	10/22/2014	JMA	EPA18
Tetrachloroethene	<10	<10	<10	<10	<1.5	10	10/22/2014	JMA	EPA18
Toluene	700	703.642	<10	700	190	10	10/22/2014	JMA	EPA18
trans-1,2-Dichloroethene	<10	<10	<10	<10	<2.5	10	10/22/2014	JMA	EPA18
Trichloroethene	290	292.66	<10	290	54	10	10/22/2014	JMA	EPA18
TRPH (Based on Benzene)	7600	7608.4	<100	7600	2400	100	10/22/2014	JMA	EPA18
Vinyl chloride	<10	<10	<10	<10	<3.9	10	10/22/2014	JMA	EPA18

Client ID: EFFLUENT C3 (102114)	Lab ID: 1410J18-002A		Date Sampled: 10/21/2014		Media: Tedlar Bag	Air Vol.(L): 1			
1,1,1-Trichloroethane	<10	<10	<10	<10	<1.8	10	10/22/2014	JMA	EPA18
1,1-Dichloroethene	<10	<10	<10	<10	<2.5	10	10/22/2014	JMA	EPA18
2-Butanone	<10	<10	<10	<10	<3.4	10	10/22/2014	JMA	EPA18
4-Methyl-2-pentanone	<10	<10	<10	<10	<2.4	10	10/22/2014	JMA	EPA18
Acetone	<10	<10	<10	<10	<4.2	10	10/22/2014	JMA	EPA18
Benzene	<10	<10	<10	<10	<3.1	10	10/22/2014	JMA	EPA18
Carbon tetrachloride	<10	<10	<10	<10	<1.6	10	10/22/2014	JMA	EPA18
Chloroform	<10	<10	<10	<10	<2.0	10	10/22/2014	JMA	EPA18
cis-1,2-Dichloroethene	<10	<10	<10	<10	<2.5	10	10/22/2014	JMA	EPA18
Diethyl ether	<10	<10	<10	<10	<3.3	10	10/22/2014	JMA	EPA18
Ethylbenzene	<10	<10	<10	<10	<2.3	10	10/22/2014	JMA	EPA18
Freon 141B	<10	<10	<10	<10	<2.1	10	10/22/2014	JMA	EPA18

Qualifiers:

< Less than the indicated limit of detection (LOD)

H Holding time for preparation or analysis

B Analyte detected in the associated Method Blank

(a) Analysis indicates possible breakthrough; back section result is greater than

10 % of the front section result.

**Analytical Results
for**

Arcadis

Date: 23-Oct-14

Workorder: 1410J18

Client Reference: Lafarge Paint Marking

Analyte	Concentration					Limit of Detection (ug)	Qual	Date Analyzed	/Analyst	Test Method
	Total (ug)	Front (ug)	Back (ug)	(mg/m3)	(ppm)					
m,p-Xylene	<20	<20	<20	<20	<4.6	20		10/22/2014	JMA	EPA18
Methyl tert-butyl ether	<10	<10	<10	<10	<2.8	10		10/22/2014	JMA	EPA18
Methylene chloride	<10	<10	<10	<10	<2.9	10		10/22/2014	JMA	EPA18
n-Heptane	<10	<10	<10	<10	<2.4	10		10/22/2014	JMA	EPA18
n-Hexane	<10	<10	<10	<10	<2.8	10		10/22/2014	JMA	EPA18
Naphthalene	<10	<10	<10	<10	<1.9	10		10/22/2014	JMA	EPA18
o-Xylene	<10	<10	<10	<10	<2.3	10		10/22/2014	JMA	EPA18
Tetrachloroethene	<10	<10	<10	<10	<1.5	10		10/22/2014	JMA	EPA18
Toluene	<10	<10	<10	<10	<2.6	10		10/22/2014	JMA	EPA18
trans-1,2-Dichloroethene	<10	<10	<10	<10	<2.5	10		10/22/2014	JMA	EPA18
Trichloroethene	<10	<10	<10	<10	<1.9	10		10/22/2014	JMA	EPA18
TRPH (Based on Benzene)	<100	<100	<100	<100	<31	100		10/22/2014	JMA	EPA18
Vinyl chloride	<10	<10	<10	<10	<3.9	10		10/22/2014	JMA	EPA18

Qualifiers:

< Less than the indicated limit of detection (LOD)

H Holding time for preparation or analysis

B Analyte detected in the associated Method Blank

(a) Analysis indicates possible breakthrough; back section result is greater than

10 % of the front section result.

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Arcadis

Work Order Number 1410JK8

Checklist completed by [Signature] 10/21/14
Signature Date

Carrier name: FedEx UPS Courier Client US Mail Other

Shipping container/cooler in good condition? Yes No Not Present
Custody seals intact on shipping container/cooler? Yes No Not Present
Custody seals intact on sample bottles? Yes No Not Present
Container/Temp Blank temperature in compliance? SM ~~(0°-6°C)~~ Yes No

Cooler #1 amb. Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present? Yes No
Chain of custody signed when relinquished and received? Yes No
Chain of custody agrees with sample labels? Yes No
Samples in proper container/bottle? Yes No
Sample containers intact? Yes No
Sufficient sample volume for indicated test? Yes No
All samples received within holding time? Yes No
Was TAT marked on the COC? Yes No
Proceed with Standard TAT as per project history? Yes No Not Applicable
Water - VOA vials have zero headspace? No VOA vials submitted Yes No
Water - pH acceptable upon receipt? Yes No Not Applicable

Adjusted? _____ Checked by _____
Sample Condition: Good Other(Explain) _____
(For diffusive samples or AIHA lead) Is a known blank included? Yes No

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

Client: Arcadis
Project: Lafarge Paint Marking
Lab Order: 1410J18

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1410J18-001A	INFLUENT C3 (102114)	10/21/2014 11:35:00AM	Air	Aromatic Volatiles in Air		10/21/2014	10/22/2014
1410J18-001A	INFLUENT C3 (102114)	10/21/2014 11:35:00AM	Air	Chlorinated Volatiles in Air		10/21/2014	10/22/2014
1410J18-001A	INFLUENT C3 (102114)	10/21/2014 11:35:00AM	Air	Volatile Hydrocarbons in Air		10/21/2014	10/22/2014
1410J18-002A	EFFLUENT C3 (102114)	10/21/2014 11:41:00AM	Air	Aromatic Volatiles in Air		10/21/2014	10/22/2014
1410J18-002A	EFFLUENT C3 (102114)	10/21/2014 11:41:00AM	Air	Chlorinated Volatiles in Air		10/21/2014	10/22/2014
1410J18-002A	EFFLUENT C3 (102114)	10/21/2014 11:41:00AM	Air	Volatile Hydrocarbons in Air		10/21/2014	10/22/2014

Client: Arcadis
 Project Name: Lafarge Paint Marking
 Workorder: 1410J18

ANALYTICAL QC SUMMARY REPORT

BatchID: 197993

Sample ID: MB-197993	Client ID:	Units: ug, Total	Prep Date: 10/21/2014	Run No: 278337							
SampleType: MBLK	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 197993	Analysis Date: 10/22/2014	Seq No: 5883595							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	BRL	10									
1,1-Dichloroethene	BRL	10									
Carbon tetrachloride	BRL	10									
Chloroform	BRL	10									
cis-1,2-Dichloroethene	BRL	10									
Freon 141B	BRL	10									
Methylene chloride	BRL	10									
Tetrachloroethene	BRL	10									
trans-1,2-Dichloroethene	BRL	10									
Trichloroethene	BRL	10									
Vinyl chloride	BRL	10									

Sample ID: MB-197993	Client ID:	Units: ug, Total	Prep Date: 10/21/2014	Run No: 278338							
SampleType: MBLK	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 197993	Analysis Date: 10/22/2014	Seq No: 5883602							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2-Butanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	10									
Diethyl ether	BRL	10									
n-Heptane	BRL	10									
n-Hexane	BRL	10									

Sample ID: MB-197993	Client ID:	Units: ug, Total	Prep Date: 10/21/2014	Run No: 278339							
SampleType: MBLK	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 197993	Analysis Date: 10/22/2014	Seq No: 5883603							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene	BRL	10									
---------	-----	----	--	--	--	--	--	--	--	--	--

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
Project Name: Lafarge Paint Marking
Workorder: 1410J18

ANALYTICAL QC SUMMARY REPORT

BatchID: 197993

Sample ID: MB-197993	Client ID:	Units: ug, Total	Prep Date: 10/21/2014	Run No: 278339							
SampleType: MBLK	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 197993	Analysis Date: 10/22/2014	Seq No: 5883603							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethylbenzene
m,p-Xylene
Methyl tert-butyl ether
Naphthalene
o-Xylene
Toluene
TRPH (Based on Benzene)

BRL
BRL
BRL
BRL
BRL
BRL
BRL

10
20
10
10
10
10
100

Sample ID: LCS-197993	Client ID:	Units: ug, Total	Prep Date: 10/21/2014	Run No: 278337							
SampleType: LCS	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 197993	Analysis Date: 10/22/2014	Seq No: 5883780							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane
Carbon tetrachloride
Chloroform
Methylene chloride
Tetrachloroethene
Trichloroethene

103.5
105.3
100.7
101.6
101.8
105.8

10
10
10
10
10
10

100.0
100.0
100.0
100.0
100.0
100.0

104
105
101
102
102
106

85
85
83.2
85
85
85

120
126
120
126
118
122

Sample ID: LCS-197993	Client ID:	Units: ug, Total	Prep Date: 10/21/2014	Run No: 278338							
SampleType: LCS	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 197993	Analysis Date: 10/22/2014	Seq No: 5883782							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2-Butanone
4-Methyl-2-pentanone
Acetone
Diethyl ether
n-Heptane

88.58
94.82
77.58
98.78
104.2

10
10
10
10
10

100.0
100.0
100.0
100.0
100.0

88.6
94.8
77.6
98.8
104

74.2
81.5
70.1
79.9
87

120
120
120
120
121

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
BRL	Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S Spike Recovery outside limits due to matrix	

Client: Arcadis
 Project Name: Lafarge Paint Marking
 Workorder: 1410J18

ANALYTICAL QC SUMMARY REPORT

BatchID: 197993

Sample ID: LCS-197993	Client ID:	Units: ug, Total	Prep Date: 10/21/2014	Run No: 278338							
SampleType: LCS	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 197993	Analysis Date: 10/22/2014	Seq No: 5883782							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

n-Hexane 106.1 10 100.0 106 87.1 123

Sample ID: LCS-197993	Client ID:	Units: ug, Total	Prep Date: 10/21/2014	Run No: 278339							
SampleType: LCS	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 197993	Analysis Date: 10/22/2014	Seq No: 5883786							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene 103.8 10 100.0 104 76 123
 Ethylbenzene 105.0 10 100.0 105 80.2 124
 m,p-Xylene 207.1 20 200.0 104 78 123
 Methyl tert-butyl ether 85.63 10 100.0 85.6 71 120
 Naphthalene 44.74 10 100.0 44.7 34.4 100
 o-Xylene 98.56 10 100.0 98.6 78 118
 Toluene 102.6 10 100.0 103 78.3 121

Sample ID: LCS-197993-2	Client ID:	Units: ug, Total	Prep Date: 10/21/2014	Run No: 278337							
SampleType: LCS	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 197993	Analysis Date: 10/22/2014	Seq No: 5884234							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene 98.23 10 100.0 98.2 83.6 119
 cis-1,2-Dichloroethene 102.7 10 100.0 103 84.2 123
 trans-1,2-Dichloroethene 103.0 10 100.0 103 85 120

Sample ID: LCS-197993-3	Client ID:	Units: ug, Total	Prep Date: 10/21/2014	Run No: 278337							
SampleType: LCS	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 197993	Analysis Date: 10/22/2014	Seq No: 5884239							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Vinyl chloride 20.98 10 25.00 83.9 60.4 121

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Arcadis
Project Name: Lafarge Paint Marking
Workorder: 1410J18

ANALYTICAL QC SUMMARY REPORT**BatchID: 197993**

Sample ID: LCSD-197993	Client ID:	Units: ug, Total	Prep Date: 10/21/2014	Run No: 278337							
SampleType: LCSD	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 197993	Analysis Date: 10/22/2014	Seq No: 5884055							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	103.4	10	100.0		103	85	120	103.5	0.159	15	
Carbon tetrachloride	108.4	10	100.0		108	85	126	105.3	2.85	15	
Chloroform	100.3	10	100.0		100	83.2	120	100.7	0.379	15	
Methylene chloride	99.92	10	100.0		99.9	85	126	101.6	1.62	15	
Tetrachloroethene	103.2	10	100.0		103	85	118	101.8	1.39	15	
Trichloroethene	105.8	10	100.0		106	85	122	105.8	0.025	15	

Sample ID: LCSD-197993	Client ID:	Units: ug, Total	Prep Date: 10/21/2014	Run No: 278338							
SampleType: LCSD	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 197993	Analysis Date: 10/22/2014	Seq No: 5884248							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2-Butanone	88.36	10	100.0		88.4	74.2	120	88.58	0.253	15	
4-Methyl-2-pentanone	95.12	10	100.0		95.1	81.5	120	94.82	0.317	15	
Acetone	76.60	10	100.0		76.6	70.1	120	77.58	1.27	15	
Diethyl ether	97.71	10	100.0		97.7	79.9	120	98.78	1.08	15	
n-Heptane	104.2	10	100.0		104	87	121	104.2	0.012	15	
n-Hexane	105.3	10	100.0		105	87.1	123	106.1	0.783	15	

Sample ID: LCSD-197993	Client ID:	Units: ug, Total	Prep Date: 10/21/2014	Run No: 278339							
SampleType: LCSD	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 197993	Analysis Date: 10/22/2014	Seq No: 5884250							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene	103.7	10	100.0		104	76	123	103.8	0.094	15	
Ethylbenzene	105.6	10	100.0		106	80.2	124	105.0	0.536	15	
m,p-Xylene	207.9	20	200.0		104	78	123	207.1	0.391	15	
Methyl tert-butyl ether	84.42	10	100.0		84.4	71	120	85.63	1.41	15	
Naphthalene	45.47	10	100.0		45.5	34.4	100	44.74	1.63	15	
o-Xylene	99.21	10	100.0		99.2	78	118	98.56	0.665	15	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Arcadis
Project Name: Lafarge Paint Marking
Workorder: 1410J18

ANALYTICAL QC SUMMARY REPORT

BatchID: 197993

Sample ID: LCSD-197993	Client ID:	Units: ug, Total	Prep Date: 10/21/2014	Run No: 278339							
SampleType: LCSD	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 197993	Analysis Date: 10/22/2014	Seq No: 5884250							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Toluene	102.9	10	100.0		103	78.3	121	102.6	0.298	15	
---------	-------	----	-------	--	-----	------	-----	-------	-------	----	--

Sample ID: LCSD-197993-2	Client ID:	Units: ug, Total	Prep Date: 10/21/2014	Run No: 278337							
SampleType: LCSD	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 197993	Analysis Date: 10/22/2014	Seq No: 5884237							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	97.32	10	100.0		97.3	83.6	119	98.23	0.927	15	
cis-1,2-Dichloroethene	102.6	10	100.0		103	84.2	123	102.7	0.126	15	
trans-1,2-Dichloroethene	103.2	10	100.0		103	85	120	103.0	0.266	15	

Sample ID: LCSD-197993-3	Client ID:	Units: ug, Total	Prep Date: 10/21/2014	Run No: 278337							
SampleType: LCSD	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 197993	Analysis Date: 10/22/2014	Seq No: 5884240							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Vinyl chloride	20.78	10	25.00		83.1	60.4	121	20.98	0.963	19.2	
----------------	-------	----	-------	--	------	------	-----	-------	-------	------	--

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		



October 29, 2014

Greg Sitomer
Arcadis
1000 Cobb Place Blvd., Bldg. 500-A
Kennesaw GA 30144

TEL: (770) 431-8666
FAX: (770) 435-2666

RE: Lafarge East Point

Dear Greg Sitomer:

Order No: 1410K42

Analytical Environmental Services, Inc. received 2 samples on 10/22/2014 1:40:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/14-06/30/15.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/15.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Chantelle Kanhai
Project Manager

1410K42

CHAIN OF CUSTODY FORM FOR AIR SAMPLE ANALYSIS

Client Name: Arcadis Contact: Gregory.Sitomer@arcadis-us.com Project Name/#: HT212576.0008.00001
 Address: 1000 Cobb Place Blvd Phone: 770.570.7078(6) 770.428.9009(6) Samplers Name: Ivan Jenkins / Greg Jenkins
Building 500A Fax: 770.428.4004 Sampling Date: 10-22-14
Kennesaw, GA 30144 Kevin.warner@arcadis-us.com

SAMPLE ID	SAMPLE DESCRIPTION (e.g. Locations, Name, etc)	PUMP NUMBER	TIME		FLOW RATE			VOLUME	ANALYSIS REQUESTED/REMARKS
			START	END	INITIAL	FINAL	AVG		
<u>Influent C3 21/2(102214)</u>	<u>Influent C3</u>	<u>NONE</u>			<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>1 L</u>	<u>EPA 18 Grab</u>
<u>Effluent C3 21/2(102214)</u>	<u>Effluent C3</u>	<u>NONE</u>			<u>"</u>	<u>"</u>	<u>"</u>	<u>1 L</u>	<u>EPA 18 Grab</u>

Turnaround Time: Normal (5 days): 3 Days Rush: 2 Days Rush: Next Day Rush:

Comments: _____

Relinquished By: <u>Ivan Jenkins</u>	Date/Time: <u>10/22/14 - 11:30</u>
Received By: <u>[Signature]</u>	Date/Time: <u>10.22.14 11:30</u>
Relinquished By: <u>[Signature]</u>	Date/Time: <u>10-22-14 13:40</u>
Received By: _____	Date/Time: _____

Delivered Direct to Lab: Shipped:
 Method of Shipment: Lab Currier Pickup
 Lab Recipient: Tester [Signature]
 Date: 10/22/14 13:40

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE FOLLOWING BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT.

Analytical Results

for

Arcadis

Date: 29-Oct-14

Workorder: 1410K42

Client Reference: Lafarge East Point

Analyte	Concentration					Limit of Detection (ug)	Qual	Date Analyzed /Analyst	Test Method
	Total (ug)	Front (ug)	Back (ug)	(mg/m3)	(ppm)				
Client ID: INFLUENT C3 Z1/2 (102214)	Lab ID: 1410K42-001A	Date Sampled: 10/22/2014	Media: Tedlar Bag	Air Vol.(L): 1					
1,1,1-Trichloroethane	<10	<10	<10	<10	<1.8	10	10/23/2014	JMA	EPA18
1,1-Dichloroethene	<10	<10	<10	<10	<2.5	10	10/23/2014	JMA	EPA18
2-Butanone	<10	<10	<10	<10	<3.4	10	10/23/2014	JMA	EPA18
4-Methyl-2-pentanone	<10	<10	<10	<10	<2.4	10	10/23/2014	JMA	EPA18
Acetone	<10	<10	<10	<10	<4.2	10	10/23/2014	JMA	EPA18
Benzene	28	28.16	<10	28	8.8	10	10/23/2014	JMA	EPA18
Carbon tetrachloride	<10	<10	<10	<10	<1.6	10	10/23/2014	JMA	EPA18
Chloroform	<10	<10	<10	<10	<2.0	10	10/23/2014	JMA	EPA18
cis-1,2-Dichloroethene	100	101.368	<10	100	26	10	10/23/2014	JMA	EPA18
Diethyl ether	<10	<10	<10	<10	<3.3	10	10/23/2014	JMA	EPA18
Ethylbenzene	23	22.963	<10	23	5.3	10	10/23/2014	JMA	EPA18
Freon 141B	<10	<10	<10	<10	<2.1	10	10/23/2014	JMA	EPA18
m,p-Xylene	90	89.891	<20	90	21	20	10/23/2014	JMA	EPA18
Methyl tert-butyl ether	<10	<10	<10	<10	<2.8	10	10/23/2014	JMA	EPA18
Methylene chloride	<10	<10	<10	<10	<2.9	10	10/23/2014	JMA	EPA18
n-Heptane	260	259.189	<10	260	63	10	10/23/2014	JMA	EPA18
n-Hexane	1200	1245.6	<10	1200	350	10	10/23/2014	JMA	EPA18
Naphthalene	<10	<10	<10	<10	<1.9	10	10/23/2014	JMA	EPA18
o-Xylene	19	18.846	<10	19	4.3	10	10/23/2014	JMA	EPA18
Tetrachloroethene	<10	<10	<10	<10	<1.5	10	10/23/2014	JMA	EPA18
Toluene	380	376.076	<10	380	100	10	10/23/2014	JMA	EPA18
trans-1,2-Dichloroethene	<10	<10	<10	<10	<2.5	10	10/23/2014	JMA	EPA18
Trichloroethene	130	134.003	<10	130	25	10	10/23/2014	JMA	EPA18
TRPH (Based on Benzene)	5600	5586.18	<100	5600	1800	100	10/23/2014	JMA	EPA18
Vinyl chloride	<10	<10	<10	<10	<3.9	10	10/23/2014	JMA	EPA18

Client ID: EFFLUENT C3 Z1/2 (102214)	Lab ID: 1410K42-002A	Date Sampled: 10/22/2014	Media: Tedlar Bag	Air Vol.(L): 1					
1,1,1-Trichloroethane	<10	<10	<10	<10	<1.8	10	10/23/2014	JMA	EPA18
1,1-Dichloroethene	<10	<10	<10	<10	<2.5	10	10/23/2014	JMA	EPA18
2-Butanone	<10	<10	<10	<10	<3.4	10	10/23/2014	JMA	EPA18
4-Methyl-2-pentanone	<10	<10	<10	<10	<2.4	10	10/23/2014	JMA	EPA18
Acetone	<10	<10	<10	<10	<4.2	10	10/23/2014	JMA	EPA18
Benzene	<10	<10	<10	<10	<3.1	10	10/23/2014	JMA	EPA18
Carbon tetrachloride	<10	<10	<10	<10	<1.6	10	10/23/2014	JMA	EPA18
Chloroform	<10	<10	<10	<10	<2.0	10	10/23/2014	JMA	EPA18
cis-1,2-Dichloroethene	<10	<10	<10	<10	<2.5	10	10/23/2014	JMA	EPA18
Diethyl ether	<10	<10	<10	<10	<3.3	10	10/23/2014	JMA	EPA18
Ethylbenzene	<10	<10	<10	<10	<2.3	10	10/23/2014	JMA	EPA18
Freon 141B	<10	<10	<10	<10	<2.1	10	10/23/2014	JMA	EPA18

Qualifiers:

< Less than the indicated limit of detection (LOD)

H Holding time for preparation or analysis

B Analyte detected in the associated Method Blank

(a) Analysis indicates possible breakthrough; back section result is greater than

10 % of the front section result.

**Analytical Results
for**

Arcadis

Date: 29-Oct-14

Workorder: 1410K42

Client Reference: Lafarge East Point

Analyte	Concentration					Limit of Detection (ug)	Qual	Date Analyzed	/Analyst	Test Method
	Total (ug)	Front (ug)	Back (ug)	(mg/m3)	(ppm)					
m,p-Xylene	<20	<20	<20	<20	<4.6	20		10/23/2014	JMA	EPA18
Methyl tert-butyl ether	<10	<10	<10	<10	<2.8	10		10/23/2014	JMA	EPA18
Methylene chloride	<10	<10	<10	<10	<2.9	10		10/23/2014	JMA	EPA18
n-Heptane	<10	<10	<10	<10	<2.4	10		10/23/2014	JMA	EPA18
n-Hexane	<10	<10	<10	<10	<2.8	10		10/23/2014	JMA	EPA18
Naphthalene	<10	<10	<10	<10	<1.9	10		10/23/2014	JMA	EPA18
o-Xylene	<10	<10	<10	<10	<2.3	10		10/23/2014	JMA	EPA18
Tetrachloroethene	<10	<10	<10	<10	<1.5	10		10/23/2014	JMA	EPA18
Toluene	<10	<10	<10	<10	<2.6	10		10/23/2014	JMA	EPA18
trans-1,2-Dichloroethene	<10	<10	<10	<10	<2.5	10		10/23/2014	JMA	EPA18
Trichloroethene	<10	<10	<10	<10	<1.9	10		10/23/2014	JMA	EPA18
TRPH (Based on Benzene)	<100	<100	<100	<100	<31	100		10/23/2014	JMA	EPA18
Vinyl chloride	<10	<10	<10	<10	<3.9	10		10/23/2014	JMA	EPA18

Qualifiers:

< Less than the indicated limit of detection (LOD)

H Holding time for preparation or analysis

B Analyte detected in the associated Method Blank

(a) Analysis indicates possible breakthrough; back section result is greater than

10 % of the front section result.

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Arcadis

Work Order Number 1910K42

Checklist completed by JMB Signature Date 10/22/14

Carrier name: FedEx UPS Courier Client US Mail Other

Shipping container/cooler in good condition? Yes No Not Present

Custody seals intact on shipping container/cooler? Yes No Not Present

Custody seals intact on sample bottles? Yes No Not Present

Container/Temp Blank temperature in compliance? (4°C±2) Yes No

Cooler #1 Ambient Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler #5 _____ Cooler #6 _____

Chain of custody present? Yes No

Chain of custody signed when relinquished and received? Yes No

Chain of custody agrees with sample labels? Yes No

Samples in proper container/bottle? Yes No

Sample containers intact? Yes No

Sufficient sample volume for indicated test? Yes No

All samples received within holding time? Yes No

Was TAT marked on the COC? Yes No

Proceed with Standard TAT as per project history? Yes No Not Applicable

Water - VOA vials have zero headspace? No VOA vials submitted Yes No

Water - pH acceptable upon receipt? Yes No Not Applicable

Adjusted? _____ Checked by _____

Sample Condition: Good Other(Explain) _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes No

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

Client: Arcadis
Project: Lafarge East Point
Lab Order: 1410K42

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1410K42-001A	INFLUENT C3 Z1/2 (102214)	10/22/2014 12:00:00AM	Air	Aromatic Volatiles in Air		10/22/2014	10/23/2014
1410K42-001A	INFLUENT C3 Z1/2 (102214)	10/22/2014 12:00:00AM	Air	Chlorinated Volatiles in Air		10/22/2014	10/23/2014
1410K42-001A	INFLUENT C3 Z1/2 (102214)	10/22/2014 12:00:00AM	Air	Volatile Hydrocarbons in Air		10/22/2014	10/23/2014
1410K42-002A	EFFLUENT C3 Z1/2 (102214)	10/22/2014 12:00:00AM	Air	Aromatic Volatiles in Air		10/22/2014	10/23/2014
1410K42-002A	EFFLUENT C3 Z1/2 (102214)	10/22/2014 12:00:00AM	Air	Chlorinated Volatiles in Air		10/22/2014	10/23/2014
1410K42-002A	EFFLUENT C3 Z1/2 (102214)	10/22/2014 12:00:00AM	Air	Volatile Hydrocarbons in Air		10/22/2014	10/23/2014

Client: Arcadis
 Project Name: Lafarge East Point
 Workorder: 1410K42

ANALYTICAL QC SUMMARY REPORT

BatchID: 198078

Sample ID: MB-198078	Client ID:	Units: ug, Total	Prep Date: 10/22/2014	Run No: 278461							
SampleType: MBLK	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 198078	Analysis Date: 10/23/2014	Seq No: 5885145							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane
 1,1-Dichloroethene
 Carbon tetrachloride
 Chloroform
 cis-1,2-Dichloroethene
 Freon 141B
 Methylene chloride
 Tetrachloroethene
 trans-1,2-Dichloroethene
 Trichloroethene
 Vinyl chloride

BRL
 BRL

10
 10
 10
 10
 10
 10
 10
 10
 10
 10
 10

Sample ID: MB-198078	Client ID:	Units: ug, Total	Prep Date: 10/22/2014	Run No: 278464							
SampleType: MBLK	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 198078	Analysis Date: 10/23/2014	Seq No: 5885216							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2-Butanone
 4-Methyl-2-pentanone
 Acetone
 Diethyl ether
 n-Heptane
 n-Hexane

BRL
 BRL
 BRL
 BRL
 BRL
 BRL

10
 10
 10
 10
 10
 10

Sample ID: MB-198078	Client ID:	Units: ug, Total	Prep Date: 10/22/2014	Run No: 278465							
SampleType: MBLK	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 198078	Analysis Date: 10/23/2014	Seq No: 5885376							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene

BRL
 10

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Arcadis
Project Name: Lafarge East Point
Workorder: 1410K42

ANALYTICAL QC SUMMARY REPORT

BatchID: 198078

Sample ID: MB-198078	Client ID:	Units: ug, Total	Prep Date: 10/22/2014	Run No: 278465							
SampleType: MBLK	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 198078	Analysis Date: 10/23/2014	Seq No: 5885376							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethylbenzene
m,p-Xylene
Methyl tert-butyl ether
Naphthalene
o-Xylene
Toluene
TRPH (Based on Benzene)

BRL
BRL
BRL
BRL
BRL
BRL
BRL

10
20
10
10
10
10
100

Sample ID: LCS-198078	Client ID:	Units: ug, Total	Prep Date: 10/22/2014	Run No: 278461							
SampleType: LCS	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 198078	Analysis Date: 10/23/2014	Seq No: 5885147							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane
Carbon tetrachloride
Chloroform
Methylene chloride
Tetrachloroethene
Trichloroethene

103.2
106.4
100.7
102.6
100.8
106.0

10
10
10
10
10
10

100.0
100.0
100.0
100.0
100.0
100.0

103
106
101
103
101
106

85
85
83.2
85
85
85

120
126
120
126
118
122

Sample ID: LCS-198078	Client ID:	Units: ug, Total	Prep Date: 10/22/2014	Run No: 278464							
SampleType: LCS	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 198078	Analysis Date: 10/23/2014	Seq No: 5885217							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2-Butanone
4-Methyl-2-pentanone
Acetone
Diethyl ether
n-Heptane

89.90
94.96
80.67
100.5
104.1

10
10
10
10
10

100.0
100.0
100.0
100.0
100.0

89.9
95.0
80.7
100
104

74.2
81.5
70.1
79.9
87

120
120
120
120
121

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	

Client: Arcadis
Project Name: Lafarge East Point
Workorder: 1410K42

ANALYTICAL QC SUMMARY REPORT

BatchID: 198078

Sample ID: LCS-198078	Client ID:	Units: ug, Total	Prep Date: 10/22/2014	Run No: 278464							
SampleType: LCS	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 198078	Analysis Date: 10/23/2014	Seq No: 5885217							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

n-Hexane 106.5 10 100.0 106 87.1 123

Sample ID: LCS-198078	Client ID:	Units: ug, Total	Prep Date: 10/22/2014	Run No: 278465							
SampleType: LCS	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 198078	Analysis Date: 10/23/2014	Seq No: 5885379							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene 103.7 10 100.0 104 76 123
 Ethylbenzene 104.3 10 100.0 104 80.2 124
 m,p-Xylene 205.0 20 200.0 103 78 123
 Methyl tert-butyl ether 86.17 10 100.0 86.2 71 120
 Naphthalene 48.42 10 100.0 48.4 34.4 100
 o-Xylene 97.54 10 100.0 97.5 78 118
 Toluene 101.8 10 100.0 102 78.3 121

Sample ID: LCS-198078-2	Client ID:	Units: ug, Total	Prep Date: 10/22/2014	Run No: 278461							
SampleType: LCS	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 198078	Analysis Date: 10/23/2014	Seq No: 5885153							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene 100.7 10 100.0 101 83.6 119
 cis-1,2-Dichloroethene 102.7 10 100.0 103 84.2 123
 trans-1,2-Dichloroethene 104.4 10 100.0 104 85 120

Sample ID: LCS-198078-3	Client ID:	Units: ug, Total	Prep Date: 10/22/2014	Run No: 278461							
SampleType: LCS	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 198078	Analysis Date: 10/23/2014	Seq No: 5885151							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Vinyl chloride 23.91 10 25.00 95.6 60.4 121

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Arcadis
Project Name: Lafarge East Point
Workorder: 1410K42

ANALYTICAL QC SUMMARY REPORT**BatchID: 198078**

Sample ID: LCSD-198078	Client ID:	Units: ug, Total	Prep Date: 10/22/2014	Run No: 278461							
SampleType: LCSD	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 198078	Analysis Date: 10/23/2014	Seq No: 5885150							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	103.2	10	100.0		103	85	120	103.2	0.060	15	
Carbon tetrachloride	105.6	10	100.0		106	85	126	106.4	0.787	15	
Chloroform	101.8	10	100.0		102	83.2	120	100.7	1.08	15	
Methylene chloride	102.8	10	100.0		103	85	126	102.6	0.195	15	
Tetrachloroethene	99.82	10	100.0		99.8	85	118	100.8	0.984	15	
Trichloroethene	104.5	10	100.0		105	85	122	106.0	1.36	15	

Sample ID: LCSD-198078	Client ID:	Units: ug, Total	Prep Date: 10/22/2014	Run No: 278464							
SampleType: LCSD	TestCode: Volatile Hydrocarbons in Air EPA18	BatchID: 198078	Analysis Date: 10/23/2014	Seq No: 5885218							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2-Butanone	90.79	10	100.0		90.8	74.2	120	89.90	0.981	15	
4-Methyl-2-pentanone	94.50	10	100.0		94.5	81.5	120	94.96	0.489	15	
Acetone	80.97	10	100.0		81.0	70.1	120	80.67	0.377	15	
Diethyl ether	100.2	10	100.0		100	79.9	120	100.5	0.292	15	
n-Heptane	103.2	10	100.0		103	87	121	104.1	0.823	15	
n-Hexane	105.9	10	100.0		106	87.1	123	106.5	0.590	15	

Sample ID: LCSD-198078	Client ID:	Units: ug, Total	Prep Date: 10/22/2014	Run No: 278465							
SampleType: LCSD	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 198078	Analysis Date: 10/23/2014	Seq No: 5885382							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene	102.7	10	100.0		103	76	123	103.7	0.921	15	
Ethylbenzene	104.0	10	100.0		104	80.2	124	104.3	0.312	15	
m,p-Xylene	204.8	20	200.0		102	78	123	205.0	0.101	15	
Methyl tert-butyl ether	85.94	10	100.0		85.9	71	120	86.17	0.260	15	
Naphthalene	46.41	10	100.0		46.4	34.4	100	48.42	4.26	15	
o-Xylene	97.35	10	100.0		97.3	78	118	97.54	0.200	15	

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
BRL	Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S Spike Recovery outside limits due to matrix	

Client: Arcadis
Project Name: Lafarge East Point
Workorder: 1410K42

ANALYTICAL QC SUMMARY REPORT

BatchID: 198078

Sample ID: LCSD-198078	Client ID:	Units: ug, Total	Prep Date: 10/22/2014	Run No: 278465							
SampleType: LCSD	TestCode: Aromatic Volatiles in Air EPA18	BatchID: 198078	Analysis Date: 10/23/2014	Seq No: 5885382							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Toluene	101.3	10	100.0		101	78.3	121	101.8	0.482	15	
---------	-------	----	-------	--	-----	------	-----	-------	-------	----	--

Sample ID: LCSD-198078-2	Client ID:	Units: ug, Total	Prep Date: 10/22/2014	Run No: 278461							
SampleType: LCSD	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 198078	Analysis Date: 10/23/2014	Seq No: 5885154							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	102.0	10	100.0		102	83.6	119	100.7	1.20	15	
cis-1,2-Dichloroethene	102.8	10	100.0		103	84.2	123	102.7	0.088	15	
trans-1,2-Dichloroethene	104.9	10	100.0		105	85	120	104.4	0.482	15	

Sample ID: LCSD-198078-3	Client ID:	Units: ug, Total	Prep Date: 10/22/2014	Run No: 278461							
SampleType: LCSD	TestCode: Chlorinated Volatiles in Air EPA18	BatchID: 198078	Analysis Date: 10/23/2014	Seq No: 5885152							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Vinyl chloride	23.79	10	25.00		95.2	60.4	121	23.91	0.482	19.2	
----------------	-------	----	-------	--	------	------	-----	-------	-------	------	--

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
BRL	Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S Spike Recovery outside limits due to matrix	



Appendix D

Waste Manifests



ARCADIS U.S., Inc.
1000 Cobb Place Blvd.
Bldg. 500-A
Kennesaw
Georgia 30144
Tel 770 428 9009
Fax 770 428 4004
www.arcadis-us.com

Tonya Wilson
City of Atlanta
DWM - Office of Watershed Protection
Division of Industrial Pretreatment
72 Marietta Street (8th Floor)
Atlanta, GA 30303

ENVIRONMENT

Subject:
Semi-Annual Waste Disposal Report – July 2014
Lafarge Road Marking
2675 North Main Street
East Point, GA
Permit No. SG 841

Date:
July 31, 2014

Contact:
David Wilderman

Phone:
404.952.1635

Email:
David.wilderman@arcadis-us.com

Our ref:
HT212446.0014

Dear Ms. Wilson:

This report is being prepared on behalf of Lafarge Road Marking (LRM) in accordance with the Part VI: Special Conditions of the Groundwater Discharge Permit SG 841, dated December 15, 2012. The purpose of this report is to present the quantity, disposal site, transportation date and hauler of all liquid wastes, sludges, oil and grease removed from the site from January 2014 to June 2014.

During the reporting period, the existing vapor-phase carbon was replaced with new, reactivated vapor-phase carbon for both the groundwater treatment system and the air sparge/soil vapor extraction system. On April 21, 2014, approximately 1,200 pounds of vapor-phase carbon was replaced in the groundwater treatment system. In addition, approximately 40,000 pounds of vapor-phase carbon was replaced in the air sparge/soil vapor extraction system on February 11, 2014 and April 21, 2014. Therefore, a total of approximately 81,200 pounds of vapor-phase carbon was removed from the systems, stored in bags and/or super sacks, and transported to Carbon Activated Corp. in Blasdell, New York. The manifests for each shipment are attached as Appendix A.

Mr. Sidney Heppern (GA WW3-06336), Wastewater Class 3 operator oversees the treatment plant operations. This information is true and accurate to the best of our abilities. We are aware that there are significant penalties for submitting false information.

Imagine the result

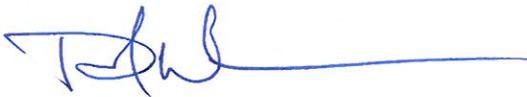
Please contact us at 404-952-1635 if you have any questions regarding this report and/or the treatment system operating at this location. Alternatively, you can send the assistant project manager an email at: david.wilderman@arcadis-us.com.

Sincerely,

ARCADIS U.S., Inc.



Gregory Sitomer
Senior Engineer



David Wilderman, P.G.
Assistant Project Manager

Enclosure:
Waste Manifest

cc:
Mr. Russell J. Dirienzo, LFR
Mr. Joe McCarthy, President, LRM



APPENDIX A

THIS MEMORANDUM

is an acknowledgment that a bill of lading has been issued and signed the Original Bill of Lading, not a copy or duplicate, covering the property named herein, and is intended only for filing or record.

Shipper's No. 0001

Carrier DAVIS TRANSPORT SCAC 136605 Carrier's No. 136605
 RECEIVED, subject to individually agreed rates for contracts that have been agreed upon in writing between the carrier and shipper. If applicable, reference to the rates, classification and rules that have been established by the carrier and apply to the shipper, on request; and all applicable state and local regulations.
 at MISSOURI date 02-12-2011 from

TO: CARBON ACTIVATED
 Consignee 3700Y HOOVER RD
 Street BUFFALO, NY Zip 14215
 Destination BUFFALO, NY Zip 14215
 Route ZIP 30344

Delivering Carrier DAVIS TRANSPORT Vehicle Number 9VIT1911 U.S. DOT Hazard Reg. Number
 Number and Type HM I.D. Number Description of Articles
 of Packages

Number and Type of Packages	HM	I.D. Number	Description of Articles	Hazard Class	Pkg. Grp.	Total Quantity (mass volume or activity)	Weight (subject to contract)	Class or Rate
<u>22</u>			<u>BAGS CARBON</u>			<u>22,400</u>		
<u>22</u>			<u>TOTAL</u>			<u>26,400</u>		

Remit COD to: dd State: NY Zip: 14215
 Address: 3700Y HOOVER RD
 City: BUFFALO
 NOTE: Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding \$ Per
 NOTE: Liability Limitation for loss or damage in this shipment may be applicable. See 49 U.S.C. 14706(a) and (b).
 This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation, Part 173
 F. CARDS REQUIRED SIGNATURE: DAVIS TRANSPORT

SHIPPER: DAVIS TRANSPORT CARRIER: DAVIS TRANSPORT
 PER: 14581 DATE: 02-12-11
 EMERGENCY RESPONSE: 406-928-5510
 TELEPHONE NUMBER: 406-928-5510
 NAME OR CONTRACT NUMBER OR OTHER UNIQUE IDENTIFIER: 3

CARBON ACTIVATED CORP.

Activated Carbon and Related Services

109 Hunters Ridge
Orchard Park
NY 14127

Tel: 716 677 6661
Fax: 716 677 6663
Email: carbonactivated@earthlink.net

April 17, 2014

Bill Of Lading

Ship To:

Carbon Activated Corp
3774 Hoover Road
Blasdell
NY 14219

Ship From:

Encotech
2675 N. Martin St.
East Point, GA 30344

Customer Ref:

Consignment

22 LW.

24 - 4 x 10 Reactivated Carbon in Super Sacks

Lloyd Williams 4-22-14

Total Gross Weight: 40,000 lbs.

Contact: Matt McCormick 716-392-5587

STRAIGHT BILL OF LADING- SHORT FORM - Original - Not Negotiable

RECEIVED, subject to the classifications and tariffs in effect on the date of issue of this Original Bill of Lading.

BOL#: .

Date: 4-23-14

Page: 1 of 1

Carrier SCAC: C.CODE

the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below, which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery as said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in the Uniform Freight Classification in effect on the date hereof, if this is a rail, or a rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment. Shipper hereby certifies that he is familiar with all the terms and conditions of said bill of lading, including those on the attachment hereof, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER (FROM)

Lq Farge
2675 Martin Street
East Point, GA 30344
Adam Hoesly (678) 414-6389

PRO #

ABF ABF Freight System

086 129 804

Total Pages



Driver signature only acknowledges receipt of freight. Shipment is subject to applicable terms and conditions of Uniform Straight Bill of Lading and ABF's tariffs.



2

CONSIGNEE (SHIP TO)

Carbon Activated
3774 Hoover Rd
Buffalo, NY 14219
John Allen (716) 891-7830

CUST. ORDER#:

OUR ORDER#:

DEPT:

ROUTE:

Special Instructions:

ABF Volume Quote # K9U0601124

SEND FREIGHT BILL TO: (if different than shipper above)

CHARLTL
14800 Chatham Road
Suite 2100
Eden Prairie, MN 55347

Freight charges are:

COLLECT

Subject to Section 7 of conditions of applicable bill of lading, if this shipment is to be delivered to the consignee without recourse on the consignee, the consignee shall sign the following statement:

C.O.D. _____ AMOUNT

C.O.D. FEE _____

Prepaid

Collect

The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignee)

NO. PKGS UM HM (X)

DESCRIPTION OF ARTICLES, KIND OF PACKAGE, SPECIAL MARKS AND EXCEPTIONS

*WEIGHT CLASS NMFC SUB (subject to correction)

Carbon, activated

12100 70 90560

All bags
No holes

0	12100 LBS	TOTALS
MARK "X" IN THE HM COLUMN TO DESIGNATE HAZARDOUS MATERIALS AS DEFINED IN DOT REGULATIONS		

* If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight."

NOTE - Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.

The agreed or declared value of the property is hereby stated by the shipper to be not exceeding

PER

* The above boxes used for this shipment conform to the specifications set forth in the box maker's certificate thereon, and all other requirements of Uniform Freight Classifications.

* Shipper's imprint is less if stamp, not a part of bill of lading approved by the Interstate Commerce Commission.

SHIPPER'S CERTIFICATION This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

Per

SHIPPER: Lq Farge

PER:

Shipper's Phone # / Fax # / E-mail

Received by:

11 skidU

Carrier/Driver:

1 ABF 4-23-14

Receiving & Carrier Signatures

Date

25134

CWMI
3/C

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number GAD088935960	2. Page 1 of 1	3. Emergency Response Phone (800)424-9300	4. Manifest Tracking Number 002164549 GBF		
5. Generator's Name and Mailing Address LAFARGE ROAD MARKING 2675 R N MARTIN ST EAST POINT GA 30344				Generator's Site Address (if different than mailing address)			
Generator's Phone: (973)625-3916							
6. Transporter 1 Company Name Bobbie D. Wood				U.S. EPA ID Number ALD-06738891			
7. Transporter 2 Company Name				U.S. EPA ID Number			
8. Designated Facility Name and Site Address CHEMICAL WASTE MANAGEMENT, INC. HIGHWAY 17 NORTH, MILE MARKER 163 EMELLE AL 35450				U.S. EPA ID Number ALD000622464			
Facility's Phone: (205)652-9721							
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
		No.	Type				
X	1. RQ, NA3077, HAZARDOUS WASTE, SOLID, N.O.S., 9, III (D008) GA617492	1	CM	34,000	165	D008	
	2.						
	3.						
	4.						
14. Special Handling Instructions and Additional Information 1. GA617492 ERG-171 ERI PROVIDER: CHEMTREC (CONTRACT CCN24117)							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offoror's Printed/Typed Name Joe McCarthy, Pres				Signature <i>Joe McCarthy</i>		Month Day Year 17 16 13	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____							
17. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name X Stephen Dowling				Signature <i>Stephen Dowling</i>		Month Day Year 17 16 13	
Transporter 2 Printed/Typed Name				Signature		Month Day Year	
18. Discrepancy							
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection							
Manifest Reference Number: _____							
18b. Alternate Facility (or Generator)				U.S. EPA ID Number			
Facility's Phone:							
18c. Signature of Alternate Facility (or Generator)						Month Day Year	
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. H132		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name Judy Bankhead				Signature <i>Judy Bankhead</i>		Month Day Year 07 22 13	

GENERATOR

INT'L

TRANSPORTER

DESIGNATED FACILITY

58

k28

CWN, INC. - EMELLE

***** Receipt # 492726 *****

Page - 1

Date/Time In 7/22/13 8:44

Load Type Rolloff

Federal EPA ID ALD067138891

Transporter ROBBIE D WOOD INC

DOLONITE

AL

** WEIGHT SUMMARY **

Gross -70040.00

Tare 74420 .00

Net .00

Adj. 40140 .00

Adj. Net .00

34,280

Truck Number 204 Trailer/Contnr #1 25134 #2 #3

Rcpt Doc Ln#	Ln#	Document Number	Profile Sales	Profile Invoicing	Generator Customer	Cnt #	Cat Code	Total Quan.	W V	DCS Units	Sched PCB Cat	Federal Waste	EPA Status	ADEX #
1	1	002164549GBF	GAG17492	LAFARGE ROAD MARKING	EAST POINT GA	1	CN	34000.00	P	Pounds	TVSB PE	Check	Restriction	073115-0009

SUBCC Value - NO 06/28/14

Doc Seq # 1 ENE BIG BEND ENVIRONMENTAL SVCS P.O. Num

Scheduled Date 07/22/13 Time 07:31 1008916-1

Federal Waste Codes D008

>51X OR <51X DEBRIS (CIRCLE)

PREFILLED VAULT Y OR N (CIRCLE)

>51X OR <51X MAC 10% INSPECTION (CIRCLE)

BULK MATERIAL ONLY:

SAMPLED/INSPECTED

FREE LIQUIDS DETECTED?

YES / NO

SELECT MATERIAL/NON-SELECT MATERIAL

WIND DISPERSAL MATERIAL?

YES / NO

PHYSICAL DESCRIPTION OF WASTE:

SAMPLER/APPROVAL

SPOT SAMPLE: B13- | PHYS. DESCRIPTION

RAD. SCREEN POS NEG |

IGN. SCREEN POS NEG |

H2O SOL. S F PT/SOL |

H2O RXN/TEMP. INITIAL NO RXN REACTS |

H2O RXN/TEMP. 5MIN. NO RXN REACTS |

ph (PAPER) |

CN_SCREEN + - SULFIDE SCREEN + - |

ADDITIONAL ANALYTICAL REQ'D? Y N

DESCRIBE:

PCB CONC. (PPM) SULFIDE (9030)

XH2O BY KF CYANIDE (9010C) TAB WASTE Y N

PAINT FILTER TEST/ P F SPEC. GRAVITY BNZ CONC. PPH

COMMENTS: (SAFETY/OPERATIONAL)

COMPAT. TEST W/ OK RXN

ADD'L SPOT SAMPLE ATTACHED? Y N

DISPOSAL METHOD: S SP ST-3 ST-3/PT P-ST-3 P-ST-3/PT ST-5 ST-5/PT P-ST-5 S01-PTA B-PIN OTHER

P-ST-5/PT ST-8 ST-8/PT NIC MAC (MAC INSPECT) F INC SP-VS PCB-MAC P-MAC

P-ST-8 P-ST-8/PT VS-3 VS-5 VS-8

INDICATOR PARAMETER WILL BE CIRCLED

B-MAC LOADS REQUIRING INSPECTION THAT ARE FOUND TO BE LESS THAN 51X MUST BE RETURNED TO LAB AND PLACED ON HOLD.

RELEASED FOR DISPOSAL BY: DATE:

1135

#1 Tr. #5174 CWM

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number GAD086935980	2. Page 1 of 1	3. Emergency Response Phone (600)424-9300	4. Manifest Tracking Number 002164550 GBF	
5. Generator's Name and Mailing Address LAFARGE ROAD MARKING 2675 R N MARTIN ST EAST POINT GA 30344			Generator's Site Address (if different than mailing address)			
Generator's Phone: (973)425-3318			6. Transporter 1 Company Name Robbie D. Wood		U.S. EPA ID Number ALD067138891	
7. Transporter 2 Company Name					U.S. EPA ID Number	
8. Designated Facility Name and Site Address CHEMICAL WASTE MANAGEMENT, INC. HIGHWAY 17 NORTH, MILE MARKER 163 EMELLE AL 35459			U.S. EPA ID Number ALD000622464			
Facility's Phone: (205)852-9721						
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.
X	1. RQ, NA3077, HAZARDOUS WASTE, SOLID, N.O.S., 9, III (D008) GA617492		1 / 0m		22.26	T
	2.				W 08/06/13	
	3.					
	4.					
14. Special Handling Instructions and Additional Information 1. GA617492 ERG-171 ERI PROVIDER: CHEMTREC (CONTRACT CCN24117)						
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.						
Generator's/Officer's Printed/Typed Name Joe McCarthy, Pres.			Signature <i>[Signature]</i>		Month 7	Day 29
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S.			Port of entry/exit: Date leaving U.S.:		Year 13	
17. Transporter Acknowledgment of Receipt of Materials						
Transporter 1 Printed/Typed Name Earnest Winston			Signature <i>[Signature]</i>		Month 7	Day 29
Transporter 2 Printed/Typed Name			Signature		Year 13	
18. Discrepancy						
18a. Discrepancy Indication Space <input checked="" type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection						
corrected wt per Joe McCarthy W 08/06/13						
18b. Alternate Facility (or Generator)					U.S. EPA ID Number	
Facility's Phone:						
18c. Signature of Alternate Facility (or Generator)					Month	Day
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)					Year	
1.	2.	3.	4.			
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a						
Printed/Typed Name Judy Bankhead			Signature <i>[Signature]</i>		Month 07	Day 30
					Year 13	

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

60

k26

CWM, INC. - ENELLE

***** Receipt # 492865 *****

Page - 1

Date/Time In 7/30/13 7:29

Load Type Rolloff

Federal EPA ID ALD067138891

Transporter ROBBIE D WOOD INC
DOLONITE

AL

** WEIGHT SUMMARY **

Gross 73848.00

Tare 28520.00

Net 44520.00

Adj. Net 44520.00

Adj. Net 22.26 Tns

Truck Number 205 Trailer/Contr #1 1135 #2 #3

Rcpt Doc Ln#	Document Number	Profile Sales	Profile Invoicing	Generator Customer	Cnt #	Cnt Code	Total Quan.	V DCS Units	Sched PCB Cat	Federal EPA Waste Status	ADEN #
1	0021645506BF	GA617492	LAFARGE ROAD MARKING	EAST POINT GA	1	CM	20.00	T Tons	TVSB PQ	Check Restriction	073115-0009
Doc Seq # 1 EME BIG BEND ENVIRONMENTAL SVCS P.O. Num Scheduled Date 07/30/13 Time 10:01 1009486-1 SUBCC Value - NO 06/28/14											

Federal Waste Codes 0006

>51X OR <51X DEBRIS (CIRCLE)

PREFILLED VAULT Y OR N (CIRCLE)

>51X OR <51X MAC 10% INSPECTION (CIRCLE)

BULK MATERIAL ONLY:

SAMPLED/INSPECTED _____ FREE LIQUIDS DETECTED? YES / NO

SELECT MATERIAL/NON-SELECT MATERIAL _____ WIND DISPERSAL MATERIAL? YES / NO

PHYSICAL DESCRIPTION OF WASTE: _____ SAMPLER/APPROVAL _____

SPOT SAMPLE: B13- _____ | PHYS. DESCRIPTION _____

RAD. SCREEN POS NEG _____ | _____

IGN. SCREEN POS NEG _____ | _____

H2O SOL. S F PT/SOL _____ | _____

H2O RXN/TEMP. INITIAL NO RXN REACTS _____ | _____

H2O RXN/TEMP. 5MIN. NO RXN REACTS _____ | _____

ph (PAPER) _____ | _____

CN SCREEN + - SULFIDE SCREEN + - | _____

ADDITIONAL ANALYTICAL REQ'D? Y N _____

DESCRIBE: _____

PCB CONC. (PPH) _____ SULFIDE (9030) _____

XH2O BY KF _____ CYANIDE (9010C) _____ TAB WASTE Y N _____

PAINT FILTER TEST/ P F SPEC. GRAVITY _____ BNZ CONC. PPH _____

COMMENTS: (SAFETY/OPERATIONAL) _____

COMPAT. TEST W/ _____ OR RXN _____

ADD'L SPOT SAMPLE ATTACHED? Y N _____

DISPOSAL METHOD: S SP ST-3 ST-3/PT P-ST-3 P-ST-3/PT ST-5 ST-5/PT P-ST-5 S01-PTA B-PIN OTHER _____

P-ST-5/PT ST-8 ST-8/PT NIC MAC (MAC INSPECT) F INC SP-VS PCB-MAC P-MAC

P-ST-8 P-ST-8/PT VS-3 VS-5 VS-8

INDICATOR PARAMETER WILL BE CIRCLED

B-MAC LOADS REQUIRING INSPECTION THAT ARE FOUND TO BE LESS THAN 51X MUST

BE RETURNED TO LAB AND PLACED ON HOLD. _____

RELEASED FOR DISPOSAL BY: _____ DATE: _____

01143

#2

CWMI

Please print or type (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number GAD050035000	2. Page 1 of 1	3. Emergency Response Phone (800)424-9300	4. Manifest Tracking Number 002164551 GBF			
5. Generator's Name and Mailing Address LAFARGE ROAD MARKING 2675 R N MARTIN ST EAST POINT GA 30344				Generator's Site Address (if different than mailing address)				
Generator's Phone (973)625-2016				U.S. EPA ID Number ALD067138291				
6. Transporter 1 Company Name Robbie D. Wood				U.S. EPA ID Number				
7. Transporter 2 Company Name				U.S. EPA ID Number				
8. Designated Facility Name and Site Address CHEMICAL WASTE MANAGEMENT, INC. HIGHWAY 17 NORTH, MILE MARKER 163 EMELLE AL 35459				U.S. EPA ID Number ALD000622464				
Facility's Phone (205)852-9721								
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
		1. RQ, NA3077, HAZARDOUS WASTE, SOLID, N.O.S., 9, III (D008)		No.	Type	22.77	T	D008
		GA617492		1	DT	22.77	106	13
		2.						
		3.						
	4.							
14. Special Handling Instructions and Additional Information 1. GA617492 ERG-171								
ERI PROVIDER: CHEMTREC (CONTRACT CCN24117)								
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.								
Generator's/Offeror's Printed/Typed Name Joe McCarthy, Pres				Signature <i>Joe McCarthy</i>		Month 17	Day 30	Year 13
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____								
17. Transporter Acknowledgment of Receipt of Materials								
Transporter 1 Printed/Typed Name Ernest Winston				Signature <i>Ernest Winston</i>		Month 7	Day 30	Year 13
Transporter 2 Printed/Typed Name				Signature		Month	Day	Year
18. Discrepancy								
18a. Discrepancy Indication Space <input checked="" type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection								
corrected wt per Joe McCarthy 08/06/13								
18b. Alternate Facility (or Generator) U.S. EPA ID Number								
Facility's Phone:								
18c. Signature of Alternate Facility (or Generator) Month Day Year								
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)								
1. H132		2.		3.		4.		
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a								
Printed/Typed Name Mal Alexander				Signature <i>Mal Alexander</i>		Month 17	Day 31	Year 13

69

k2B

CWN, INC. - EHELLE

***** Receipt # 492914 *****

Page - 1

Date/Time In 7/31/13 11:02

Load Type Rolloff

Federal EPA ID ALD067138891

Transporter ROBBIE D WOOD INC

DOLONITE

AL

** WEIGHT SUMMARY **

Gross 73548.00

Tare .00

Net 28000 .00

Adj. 45,540 .00

Adj. Net .00

Truck Number 205

Trailer/Contnr #1 1143

#2

#3

22.77 Tons

Rcpt Doc Lnf Lnf	Document Number	Profile Sales	Profile Invoicing	Generator Customer	Cnt #	Cnt Code	Total Quan.	V Units	DCS V Units	Sched PCB Cat	Federal EPA Waste Status	ADEN #
1 1	002164551GBF	GAG17492	LAFARGE ROAD MARKING	EAST POINT GA	1	DT	20.00	T	Tons	TVSB P0	Check Restriction	073115-0009
							SUBCC Value -		NO 06/28/14			
Doc Seq # 1		ENE BIG BEND ENVIRONMENTAL SVCS		P.O. Num								
Scheduled Date 07/31/13 Time 10:01 1009592-1												

Federal Waste Codes D008

>51% OR <51% DEBRIS (CIRCLE)

PREFILLED VAULT Y OR N (CIRCLE)

>51% OR <51% HAC 10% INSPECTION (CIRCLE)

BULK MATERIAL ONLY:

SAMPLED/INSPECTED

FREE LIQUIDS DETECTED?

YES / NO

SELECT MATERIAL/NON-SELECT MATERIAL

WIND DISPERSAL MATERIAL?

YES / NO

PHYSICAL DESCRIPTION OF WASTE:

SAMPLER/APPROVAL

SPOT SAMPLE: B13- _____ | PHYS. DESCRIPTION _____

RAD. SCREEN POS NEG _____ | _____

IGH. SCREEN POS NEG _____ | _____

H2O SOL. S F PT/SOL _____ | _____

H2O RXN/TEMP. INITIAL NO RXN REACTS _____ | _____

H2O RXN/TEMP. 5MIN. NO RXN REACTS _____ | _____

ph (PAPER) _____ | _____

CN SCREEN + - SULFIDE SCREEN + - | _____

ADDITIONAL ANALYTICAL REQ'D? Y N _____

DESCRIBE:

PCB CONC. (PPM) _____ SULFIDE (9030) _____

XH2O BY KF _____ CYANIDE (9010C) _____ TAB WASTE Y N _____

PAINT FILTER TEST/ P F _____ SPEC. GRAVITY _____ BMZ CONC. _____ PPM _____

COMMENTS: (SAFETY/OPERATIONAL) _____

COMPAT. TEST W/ _____ OR _____ RXN _____

ADD'L SPOT SAMPLE ATTACHED? Y N _____

DISPOSAL METHOD: S SP ST-3 ST-3/PT P-ST-3 P-ST-3/PT ST-5 ST-5/PT P-ST-5 S01-PTA B-PIN OTHER _____

P-ST-5/PT ST-8 ST-8/PT NIC HAC (HAC INSPECT) F INC SP-VS PCB-HAC P-HAC

P-ST-8 P-ST-8/PT VS-3 VS-5 VS-8

INDICATOR PARAMETER WILL BE CIRCLED

B-HAC LOADS REQUIRING INSPECTION THAT ARE FOUND TO BE LESS THAN 51% MUST BE RETURNED TO LAB AND PLACED ON HOLD.

RELEASED FOR DISPOSAL BY: _____ DATE: _____

01119

#3 TRK #5174 CWMI
Form Approved. OMB No. 2050-0039

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number GAD088935960	2. Page 1 of 1	3. Emergency Response Phone (800)424-9300	4. Manifest Tracking Number 002164552 GBF		
5. Generator's Name and Mailing Address LAFARGE ROAD MARKING 2675 R N MARTIN ST EAST POINT GA 30344				Generator's Site Address (if different than mailing address)			
Generator's Phone: (973)625-3916							
6. Transporter 1 Company Name Robbie D Wood				U.S. EPA ID Number ALAD067138891			
7. Transporter 2 Company Name				U.S. EPA ID Number			
8. Designated Facility Name and Site Address CHEMICAL WASTE MANAGEMENT, INC. HIGHWAY 17 NORTH, MILE MARKER 163 EMELLE AL 35459				U.S. EPA ID Number ALD000622464			
Facility's Phone: (205)852-9721							
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
		No.	Type				
X	1. RQ, NA3077, HAZARDOUS WASTE, SOLID, N.O.S., 9, III (D008) GA617492	1	DT	20T	T	D008	
	2.						
	3.						
	4.						
14. Special Handling Instructions and Additional Information 1. GA617492 ERG-171 ERI PROVIDER: CHEMTREC (CONTRACT CCN24117)							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offeror's Printed/Typed Name Joe McCarthy, Pres.				Signature <i>Joe McCarthy</i>		Month Day Year 17 31 13	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____							
17. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name Earnest Winston				Signature <i>Earnest Winston</i>		Month Day Year 3 31 13	
Transporter 2 Printed/Typed Name				Signature		Month Day Year	
18. Discrepancy							
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection							
Manifest Reference Number:							
18b. Alternate Facility (or Generator) U.S. EPA ID Number							
Facility's Phone:							
18c. Signature of Alternate Facility (or Generator) Month Day Year							
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. H132		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name Judy Bankhead				Signature <i>Judy Bankhead</i>		Month Day Year 07 31 13	

GENERATOR

INT'L

TRANSPORTER

DESIGNATED FACILITY

68

CWH, INC. - ENELE

***** Receipt # 492920 *****

Page - 1

Date/Time In 7/31/13 13:13

Load Type Dumps

Federal EPA ID ALD067138891

Transporter ROBBIE D WOOD INC

DOLONITE

AL

** WEIGHT SUMMARY **

Gross 74340.00

Tare 30480.00

Net 43860.00

Adj. 43860.00

Adj. Net .00

21.93 tons

Truck Number 5174

Trailer/Contar #1 1119

#2

#3

Rcpt Doc Ln#	Ln#	Document Number	Profile Sales	Profile Invoicing	Generator Customer	Cat #	Cat Code	Total Quan.	W DCS V Units	Sched PCB	Federal Cat	EPA Waste Status	ADEN #
--------------	-----	-----------------	---------------	-------------------	--------------------	-------	----------	-------------	---------------	-----------	-------------	------------------	--------

1	1	002164552GBF	GA617492	LAFARGE ROAD MARKING	EAST POINT GA	1	DT	20.00	T Tons	TVSB PQ	Check Restriction	073115-0009
---	---	--------------	----------	----------------------	---------------	---	----	-------	--------	---------	-------------------	-------------

SUBCC Value - NO 06/28/14

Doc Seq # 1 ENE BIG BEND ENVIRONMENTAL SVCS P.O. Num

Federal Waste Codes D000

>51% OR <51% DEBRIS (CIRCLE)

PREFILLED VAULT Y OR N (CIRCLE)

>51% OR <51% MAC 10% INSPECTION (CIRCLE)

BULK MATERIAL ONLY:

SAMPLED/INSPECTED

FREE LIQUIDS DETECTED?

YES / NO

SELECT MATERIAL/NON-SELECT MATERIAL

WIND DISPERSAL MATERIAL?

YES / NO

PHYSICAL DESCRIPTION OF WASTE:

SAMPLER/APPROVAL

SPOT SAMPLE: B13- | PHYS. DESCRIPTION

RAD. SCREEN POS NEG |

IGN. SCREEN POS NEG |

H2O SOL. S F PT/SOL |

H2O RXN/TEMP. INITIAL NO RXN REACTS |

H2O RXN/TEMP. 5MIN. NO RXN REACTS |

ph (PAPER) |

CN_SCREEN + - SULFIDE SCREEN + - |

ADDITIONAL ANALYTICAL REQ'D? Y N

DESCRIBE:

PCB CONC. (PPM) SULFIDE (9030)

XR20 BY KF CYANIDE (9010C) TAB WASTE Y N

PAINT FILTER TEST/ P F SPEC. GRAVITY BNZ CONC. PPM

COMMENTS: (SAFETY/OPERATIONAL)

COMPAT. TEST W/ OK RXN

ADD'L SPOT SAMPLE ATTACHED? Y N

DISPOSAL METHOD: S SP ST-3 ST-3/PT P-ST-3 P-ST-3/PT ST-5 ST-5/PT P-ST-5 S01-PTA B-PIN OTHER

P-ST-5/PT ST-8 ST-8/PT MIC MAC (MAC INSPECT) F INC SP-VS PCB-MAC P-MAC

P-ST-8 P-ST-8/PT VS-3 VS-5 VS-8

INDICATOR PARAMETER WILL BE CIRCLED

B-MAC LOADS REQUIRING INSPECTION THAT ARE FOUND TO BE LESS THAN 51% MUST BE RETURNED TO LAB AND PLACED ON HOLD.

RELEASED FOR DISPOSAL BY: DATE:

TQ4 c/c # 394

#4 TRK# 1145

CWMI

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number GAD089935800	2. Page 1 of 1	3. Emergency Response Phone (800)424-9300	4. Manifest Tracking Number 002164553 GBF		
5. Generator's Name and Mailing Address LAFARGE ROAD MARKING 2675 R N MARTIN ST EAST POINT GA 30244				Generator's Site Address (if different than mailing address)			
Generator's Phone: (973)825-3010							
6. Transporter 1 Company Name				U.S. EPA ID Number			
7. Transporter 2 Company Name				U.S. EPA ID Number			
8. Designated Facility Name and Site Address CHEMICAL WASTE MANAGEMENT, INC. HIGHWAY 17 NORTH, MILE MARKER 163 EMELLE AL 35450				U.S. EPA ID Number ALD000822484			
Facility's Phone: (205)852-8721							
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
			No.	Type			
		1. RQ, NA3077, HAZARDOUS WASTE, SOLID, N.O.S., 9, III (D008) GA617482	Dump	1	38480 34000 1A 08/06/13	P	D008
		2.					
		3.					
	4.						
14. Special Handling Instructions and Additional Information 1. GA617482 ERG-171 ERI PROVIDER: CHEMTREC (CONTRACT CCM24117)							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offieror's Printed/Typed Name Joe McCarthy, Pres., on behalf of LRM, Inc.				Signature <i>Joe McCarthy</i>		Month Day Year 7 31 13	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____							
17. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name Tony P. Moore Sr.				Signature <i>Tony P. Moore Sr.</i>		Month Day Year 07 31 13	
Transporter 2 Printed/Typed Name				Signature		Month Day Year	
18. Discrepancy							
18a. Discrepancy Indication Space <input checked="" type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection							
corrected wt per Joe McCarthy 1A 08/06/13							
18b. Alternate Facility (or Generator) Manifest Reference Number: _____ U.S. EPA ID Number _____							
Facility's Phone: _____							
18c. Signature of Alternate Facility (or Generator) Month Day Year							
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. H132		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name Mal Alexander				Signature <i>Mal Alexander</i>		Month Day Year 7 31 13	

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

70

k26

CWN, INC. - ENELLE

***** Receipt # 492917 *****

Page - 1

Date/Time In 7/31/13 13:05

Load Type Rolloff

Federal EPA ID ALD067138891

Transporter ROBBIE D WOOD INC

DOLONITE

AL

** WEIGHT SUMMARY **

Gross 70120.00

Tare .00

Net 31640 .00

Adj. 38,480 .00

Adj. Net .00

Truck Number 394

Trailer/Contar #1 1145

#2

#3

Rcpt Doc Laf Laf	Document Number	Profile Sales	Profile Generator Invoicing Customer	Cat Cat # Code	Total W DCS Quan. V Units	Sched Federal EPA PCB Cat Waste Status	ADEN #
1 1	0021643536BF	GAG17492	LAFARGE ROAD MARKING EAST POINT GA	1 DT	34000.00 P Pounds	TVSB PG Check Restriction	073115-0009
Doc Seq #	1	EHE	BIG BEND ENVIRONMENTAL SVCS		P.O. Num		

Federal Waste Codes 0000

>51X OR <51X DEBRIS (CIRCLE)

PREFILLED VAULT Y OR N (CIRCLE)

>51X OR <51X MAC 10X INSPECTION (CIRCLE)

BULK MATERIAL ONLY:

SAMPLED/INSPECTED

FREE LIQUIDS DETECTED?

YES / NO

SELECT MATERIAL/NON-SELECT MATERIAL

WIND DISPERSAL MATERIAL?

YES / NO

PHYSICAL DESCRIPTION OF WASTE:

SAMPLER/APPROVAL

SPOT SAMPLE:	B13-	PHYS. DESCRIPTION
RAD. SCREEN	POS NEG	
IGN. SCREEN	POS NEG	
H2O SOL.	S F PT/SOL	
H2O RXN/TEMP. INITIAL	NO RXN REACTS	
H2O RXN/TEMP. 5MIN.	NO RXN REACTS	
ph (PAPER)		
CN SCREEN + -	SULFIDE SCREEN + -	

ADDITIONAL ANALYTICAL REQ'D? Y N

DESCRIBE:

PCB CONC. (PPM) _____ SULFIDE (9030) _____

KH2O BY KF _____ CYANIDE (9010C) _____ TAB WASTE Y N _____

PAINT FILTER TEST/ P F _____ SPEC. GRAVITY _____ BNZ CONC. _____ PPM _____

COMMENTS: (SAFETY/OPERATIONAL) _____

COMPAT. TEST W/ _____ OK _____ RXN _____

ADD'L SPOT SAMPLE ATTACHED? Y N

DISPOSAL METHOD: S SP ST-3 ST-3/PT P-ST-3 P-ST-3/PT ST-5 ST-5/PT P-ST-5 S01-PTA B-PIN OTHER _____

P-ST-5/PT ST-8 ST-8/PT NIC MAC (MAC INSPECT) F INC SP-VS PCB-MAC P-MAC

P-ST-8 P-ST-8/PT VS-3 VS-5 VS-8

INDICATOR PARAMETER WILL BE CIRCLED

B-MAC LOADS REQUIRING INSPECTION THAT ARE FOUND TO BE LESS THAN 51X MUST BE RETURNED TO LAB AND PLACED ON HOLD.

RELEASED FOR DISPOSAL BY: _____ DATE: _____

Please print or type (Form designed for use on elite (12-pitch) typewriter.)

HS TRK #396

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number GAD068935920	2. Page 1 of 1	3. Emergency Response Phone (800)424-9300	4. Manifest Tracking Number 002164554 GBF	
5. Generator's Name and Mailing Address LAFARGE ROAD MARKING 2875 R N MARTIN ST EAST POINT GA 30344			Generator's Site Address (if different than mailing address)			
Generator's Phone (878)625-3616			6. Transporter 1 Company Name Robbie Dwood Inc.		U.S. EPA ID Number ALD067138891	
7. Designated Facility Name and Site Address CHEMICAL WASTE MANAGEMENT, INC. HIGHWAY 17 NORTH, MILE MARKER 163 EMELLE AL 35459			8. Transporter 2 Company Name		U.S. EPA ID Number ALD000622464	
Facility's Phone (205)652-9721			9. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any)) 1. RC,NA3077,HAZARDOUS WASTE,SOLID,N.O.S.,9,III (D008)		10. Containers No. 1 Type DT	11. Total Quantity 17.47
9a. HM					12. Unit Wt./Vol. to Tons	13. Waste Codes D008
X						
14. Special Handling Instructions and Additional Information 1. GA617492 ERG-171						
ERI PROVIDER: CHEMTREC (CONTRACT CCN24117)						
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.						
Generator's/Offoror's Printed/Typed Name Joe McCarthy			Signature <i>[Signature]</i>		Month Day Year 7 31 13	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____						
17. Transporter Acknowledgment of Receipt of Materials						
Transporter 1 Printed/Typed Name Tony Weaver			Signature <i>[Signature]</i>		Month Day Year 7 31 13	
Transporter 2 Printed/Typed Name			Signature		Month Day Year	
18. Discrepancy						
18a. Discrepancy Indication Space <input checked="" type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection						
corrected wt per Joe McCarthy Manifest Reference Number: 08/06/13						
18b. Alternate Facility (or Generator)					U.S. EPA ID Number	
Facility's Phone:						
18c. Signature of Alternate Facility (or Generator)					Month Day Year	
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)						
1. H132		2.		3.		4.
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a						
Printed/Typed Name Matt Alexander			Signature <i>[Signature]</i>		Month Day Year 7 31 13	

69

k26

CWM, INC. - EMELLE

***** Receipt # 492919 *****

Page - 1

Date/Time In 7/31/13 13:12

Load Type Dumps

Federal EPA ID ALD067138891

Transporter ROBBIE D WOOD INC

DOLONITE

AL

** WEIGHT SUMMARY **

Gross 66360.00

Tare .00

Net 31420.00

Adj. 34940.00

Adj. Net .00

Truck Number 396

Trailer/Contar #1 1135

#2

#3

17.47 Ton

Rcpt Doc Lnf	Document Number	Profile Sales	Profile Invoicing	Generator Customer	Cnt #	Cnt Code	Total Quan.	W V	DCS Units	Sched PCB	Federal Cat	EPA Waste Status	ADEN #
1	1 002164	5	346BF	GAG17492	LAFARGE ROAD MARKING	1	DT	20.00	T	Kilogram	TVSB PQ	Check Restriction	073115-0009

EAST POINT GA

SUBCC Value - NO 06/20/14

Doc Seq # 1

ENE

BIG BEND ENVIRONMENTAL SVCS

P.O. Num

Federal Waste Codes D008

>51X OR <51X DEBRIS (CIRCLE)

PREFILLED VAULT Y OR N (CIRCLE)

>51X OR <51X MAC 10% INSPECTION (CIRCLE)

BULK MATERIAL ONLY:

SAMPLED/INSPECTED

FREE LIQUIDS DETECTED?

YES / NO

SELECT MATERIAL/NON-SELECT MATERIAL

WIND DISPERSAL MATERIAL?

YES / NO

PHYSICAL DESCRIPTION OF WASTE:

SAMPLER/APPROVAL

SPOT SAMPLE:	B13-	PHYS. DESCRIPTION
RAD. SCREEN	POS NEG	
IGN. SCREEN	POS NEG	
H2O SOL.	S F PT/SOL	
H2O RXN/TEMP. INITIAL	NO RXN REACTS	
H2O RXN/TEMP. 5MIN.	NO RXN REACTS	
ph (PAPER)		
CR SCREEN	+ - SULFIDE SCREEN + -	

ADDITIONAL ANALYTICAL REQ'D? Y N

DESCRIBE:

PCB CONC. (PPM) _____ SULFIDE (9030) _____

XH2O BY KF _____ CYANIDE (9010C) _____ TAB WASTE Y N _____

PAINT FILTER TEST/ P F _____ SPEC. GRAVITY _____ BNZ CONC. _____ PPH _____

COMMENTS: (SAFETY/OPERATIONAL) _____

COMPAT. TEST W/ _____ OK _____ RXN _____

ADD'L SPOT SAMPLE ATTACHED? Y N

DISPOSAL METHOD: S SP ST-3 ST-3/PT P-ST-3 P-ST-3/PT ST-5 ST-5/PT P-ST-5 S01-PTA B-PIN OTHER _____

P-ST-5/PT ST-8 ST-8/PT NIC MAC (MAC INSPECT) F INC SP-VS PCB-HAC P-HAC

P-ST-8 P-ST-8/PT VS-3 VS-5 VS-8

INDICATOR PARAMETER WILL BE CIRCLED

B-HAC LOADS REQUIRING INSPECTION THAT ARE FOUND TO BE LESS THAN 51X MUST BE RETURNED TO LAB AND PLACED ON HOLD.

RELEASED FOR DISPOSAL BY: _____ DATE: _____

TKL # 1123

#6 TRK #

CWMI

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number GAD088935960	2. Page 1 of 1	3. Emergency Response Phone (800)424-9300	4. Manifest Tracking Number 002164555 GBF			
5. Generator's Name and Mailing Address LAFARGE ROAD MARKING 2675 R N MARTIN ST EAST POINT GA 30344				Generator's Site Address (if different than mailing address)				
Generator's Phone: (973)625-3816				U.S. EPA ID Number ALD067138891				
6. Transporter 1 Company Name Robbie D. Wood				U.S. EPA ID Number				
7. Transporter 2 Company Name				U.S. EPA ID Number				
8. Designated Facility Name and Site Address CHEMICAL WASTE MANAGEMENT, INC. HIGHWAY 17 NORTH, MILE MARKER 163 EMELLE AL 35459				U.S. EPA ID Number ALD000622464				
Facility's Phone: (205)852-9721								
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))			10. Containers No.	Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. RQ, NA3077, HAZARDOUS WASTE, SOLID, N.O.S., 9, III (D008) GA617492			1	DT	33,620 P		D008
	2.					8/1/13 JB		
	3.							
	4.							
14. Special Handling Instructions and Additional Information 1. GA617492 ERG-171 ERI PROVIDER: CHEMTREC (CONTRACT CCN24117)								
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.								
Generator's/Offor's Printed/Typed Name Joe McCarthy				Signature <i>[Signature]</i>		Month Day Year 7 16 13		
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S.				Port of entry/exit: Date leaving U.S.:				
17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name Joseph Smith				Signature <i>[Signature]</i>		Month Day Year 7 31 13		
Transporter 2 Printed/Typed Name				Signature		Month Day Year		
18. Discrepancy								
18a. Discrepancy Indication Space <input checked="" type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection								
Add rec'd wt 8/1/13 JB						Manifest Reference Number:		
18b. Alternate Facility (or Generator)						U.S. EPA ID Number		
Facility's Phone:								
18c. Signature of Alternate Facility (or Generator)						Month Day Year		
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)								
1. H132			2.			3.		
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in item 18a								
Printed/Typed Name Judy Bankhead				Signature <i>[Signature]</i>		Month Day Year 08 01 13		

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

68

k26

CWN, INC. - ENELLE

***** Receipt # 492924 *****

Page - 1

Date/Time In 8/01/13 7:21

Load Type Dumps

Federal EPA ID ALD067138891

Transporter ROBBIE D WOOD INC

DOLONITE AL

** WEIGHT SUMMARY **

Gross 63848.00

Tare .00

Net 31220.00

Adj. 331620.00

Adj. Net .00

Truck Number 5171 Trailer/Contar #1 1123 #2 #3

Rcpt Doc Ln#	Document Number	Profile Sales	Profile Invoicing	Generator Customer	Cnt #	Total Quan.	W V	DCS Units	Sched PCB Cat	Federal Waste Status	EPA ADEM #
1 1	00216455568F	GAG17492	LAFARGE ROAD MARKING	EAST POINT GA	1 DT	1.00	P	Pounds	TVSB PK	Check Restriction	073115-0009
Doc Seq # 1 EME BIG BEND ENVIRONMENTAL SVCS P.O. Num											
Scheduled Date 08/01/13 Time 08:31 1009688-2											
Federal Waste Codes D008											
>51% OR <51% DEBRIS (CIRCLE)											
PREFILLED VAULT Y OR N (CIRCLE)											
>51% OR <51% MAC 10% INSPECTION (CIRCLE)											
BULK MATERIAL ONLY:											
SAMPLED/INSPECTED _____ FREE LIQUIDS DETECTED? _____ YES / NO											
SELECT MATERIAL/NON-SELECT MATERIAL _____ WIND DISPERSAL MATERIAL? _____ YES / NO											
PHYSICAL DESCRIPTION OF WASTE: _____ SAMPLER/APPROVAL _____											

SPOT SAMPLE: B13- _____ | PHYS. DESCRIPTION _____

RAD. SCREEN POS NEG _____ | _____

IGN. SCREEN POS NEG _____ | _____

H2O SOL. S F PT/SOL _____ | _____

H2O RXN/TEMP. INITIAL NO RXN REACTS _____ | _____

H2O RXN/TEMP. 5MIN. NO RXN REACTS _____ | _____

ph (PAPER) _____ | _____

CN SCREEN + - - SULFIDE SCREEN + - - _____ | _____

ADDITIONAL ANALYTICAL REQ'D? Y N _____

DESCRIBE: _____

PCB CONC. (PPM) _____ SULFIDE (9030) _____

XH2O BY KF _____ CYANIDE (9010C) _____ TAB WASTE Y N _____

PAINT FILTER TEST/ P F SPEC. GRAVITY _____ BNZ CONC. _____ PPM _____

COMMENTS: (SAFETY/OPERATIONAL) _____

COMPAT. TEST W/ _____ OR _____ RXN _____

ADD'L SPOT SAMPLE ATTACHED? Y N _____

DISPOSAL METHOD: S SP ST-3 ST-3/PT P-ST-3 P-ST-3/PT ST-5 ST-5/PT P-ST-5 S01-PTA B-PIN OTHER _____

P-ST-5/PT ST-8 ST-8/PT NIC MAC (MAC INSPECT) F INC SP-VS PCB-MAC P-MAC

P-ST-8 P-ST-8/PT VS-3 VS-5 VS-8

INDICATOR PARAMETER WILL BE CIRCLED

B-MAC LOADS REQUIRING INSPECTION THAT ARE FOUND TO BE LESS THAN 51% MUST BE RETURNED TO LAB AND PLACED ON HOLD.

RELEASED FOR DISPOSAL BY: _____ DATE: _____

Tel # 115

Lot # 147518

#7 Trk #400

CWMI

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number GAD033935800	2. Page 1 of 1	3. Emergency Response Phone (800)424-9300	4. Manifest Tracking Number 002164556 GBF	
5. Generator's Name and Mailing Address LAFARGE ROAD MARKING 2875 R N MARTIN ST EAST POINT GA 30944				Generator's Site Address (if different than mailing address)		
Generator's Phone: (873)825-3816				6. Transporter 1 Company Name Robbie D. Wood Inc		
				U.S. EPA ID Number ALD0067138821		
7. Transporter 2 Company Name				U.S. EPA ID Number		
8. Designated Facility Name and Site Address CHEMICAL WASTE MANAGEMENT, INC. HIGHWAY 17 NORTH, MILE MARKER 163 EMELLE AL 35459				U.S. EPA ID Number ALD000622464		
Facility's Phone: (205)652-9721						
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
		No.	Type			
X	1. RQ, NA3077, HAZARDOUS WASTE, SOLID, N.O.S., 9, III (D008) GA617492	1	DT	40000	P	D008
	2.			32220		
	3.					
	4.					
14. Special Handling Instructions and Additional Information 1. GA617492 ERG-171						
ERI PROVIDER: CHEMTREC (CONTRACT CCN24117)						
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.						
Generator's/Offeror's Printed/Typed Name Joe McCarthy, Pres. on behalf of LRM, Inc.				Signature <i>[Signature]</i>		Month Day Year 7 16 13
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____						
17. Transporter Acknowledgment of Receipt of Materials						
Transporter 1 Printed/Typed Name Donald L Mabrey Jr				Signature <i>[Signature]</i>		Month Day Year 07 31 13
Transporter 2 Printed/Typed Name				Signature		Month Day Year
18. Discrepancy						
18a. Discrepancy Indication Space <input checked="" type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection						
corrected wt per Joe McCarthy LA 08/06/13						
18b. Alternate Facility (or Generator) U.S. EPA ID Number						
Facility's Phone:						
18c. Signature of Alternate Facility (or Generator) Month Day Year						
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)						
1. H132		2.		3.		4.
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a						
Printed/Typed Name Mal Alexander				Signature <i>[Signature]</i>		Month Day Year 8 1 13

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

60

k26

CWN, INC. - EMELLE

***** Receipt # 492926 *****

Page - 1

Date/Time In 8/01/13 7:34

Load Type Dumps

Federal EPA ID ALD067138891

** WEIGHT SUMMARY **

Transporter ROBBIE D WOOD INC

DOLONITE AL

Gross 60160.00

Tare .00

Net .00

Adj. .00

Adj. Net .00

Truck Number 285

Trailer/Contar #1 1115

#2

#3

Rcpt Doc Ln#	Document Ln#	Profile Sales	Profile Invoicing	Generator Customer	Cat #	Cnt Code	Total Quan.	V Units	DCS	Sched PCB	Federal Cat	EPA Waste Status	ADEN #
1	1	0021643566BF	G4617492	LAFARGE ROAD MARKING EAST POINT GA	1	DT	40000.00	P	Pounds	TVSB PO	Check	Restriction	073115-0009
Doc Seq # 1							ENE		BIG BEND ENVIRONMENTAL SVCS		P.O. Num		
Federal Waste Codes D000							Scheduled Date 08/01/13		Time 09:02		1009688-1		
>51X OR <51X DEBRIS (CIRCLE)							SUBCC Value -		NO		06/28/14		
PREFILLED VAULT Y OR N (CIRCLE)													
>51X OR <51X MAC 10X INSPECTION (CIRCLE)													
BULK MATERIAL ONLY:													
SAMPLED/INSPECTED							FREE LIQUIDS DETECTED?						
SELECT MATERIAL/NON-SELECT MATERIAL							WIND DISPERSAL MATERIAL?						

GROSS 27940 lb

09:38AM 08/01/2013

YES / NO

YES / NO

4
32,220

PHYSICAL DESCRIPTION OF WASTE:

SAMPLER/APPROVAL

SPOT SAMPLE: B13- _____ | PHYS. DESCRIPTION _____

RAD. SCREEN POS NEG _____ | _____

IGN. SCREEN POS NEG _____ | _____

H2O SOL. S F PT/SOL _____ | _____

H2O RXN/TEMP. INITIAL NO RXN REACTS _____ | _____

H2O RXN/TEMP. 5MIN. NO RXN REACTS _____ | _____

ph (PAPER) _____ | _____

CN SCREEN + - SULFIDE SCREEN + - _____ | _____

ADDITIONAL ANALYTICAL REQ'D? Y N _____

DESCRIBE: _____

PCB CONC. (PPH) _____ SULFIDE (9030) _____

XN20 BY KF _____ CYANIDE (9010C) _____ TAB WASTE Y N _____

PAINT FILTER TEST/ P F SPEC. GRAVITY _____ BNZ CONC. PPH _____

COMMENTS: (SAFETY/OPERATIONAL) _____

COMPAT. TEST W/ _____ OK _____ RXN _____

ADD'L SPOT SAMPLE ATTACHED? Y N _____

DISPOSAL METHOD: S SP ST-3 ST-3/PT P-ST-3 P-ST-3/PT ST-5 ST-5/PT P-ST-5 S01-PTA B-PIN OTHER _____

P-ST-5/PT ST-8 ST-8/PT NIC MAC (MAC INSPECT) F INC SP-VS PCB-MAC P-MAC

P-ST-8 P-ST-8/PT VS-3 VS-5 VS-8

INDICATOR PARAMETER WILL BE CIRCLED

B-MAC LOADS REQUIRING INSPECTION THAT ARE FOUND TO BE LESS THAN 51X MUST BE RETURNED TO LAB AND PLACED ON HOLD.

RELEASED FOR DISPOSAL BY: _____ DATE: _____

#8 Trk #396

CWMI

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number GAD088935960	2. Page 1 of 1	3. Emergency Response Phone (800)424-9300	4. Manifest Tracking Number 002164557 GBF		
5. Generator's Name and Mailing Address LAFARGE ROAD MARKING 2875 R N MARTIN ST EAST POINT GA 30344				Generator's Site Address (if different than mailing address)			
Generator's Phone: (973)625-3916							
6. Transporter 1 Company Name Robbie D. Wood, Inc.				U.S. EPA ID Number ALD067138891			
7. Transporter 2 Company Name				U.S. EPA ID Number			
8. Designated Facility Name and Site Address CHEMICAL WASTE MANAGEMENT, INC. HIGHWAY 17 NORTH, MILE MARKER 163 EMELLE AL 35450				U.S. EPA ID Number ALD000622464			
Facility's Phone: (205)652-9721							
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
		No.	Type				
X	1. RQ, NA3077, HAZARDOUS WASTE, SOLID, N.O.S., 9, III (D008) GA617492	1	DT	22	tons	D008	
	2.						
	3.						
	4.						
14. Special Handling Instructions and Additional Information 1. GA617492 ERG-171 ERI PROVIDER: CHEMTREC (CONTRACT CCN24117)							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offeror's Printed/Typed Name Joe McCarthy				Signature <i>[Signature]</i>		Month Day Year 8 01 13	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____							
17. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name Tony Weaver				Signature <i>[Signature]</i>		Month Day Year 8 01 13	
Transporter 2 Printed/Typed Name				Signature		Month Day Year	
18. Discrepancy							
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection							
Manifest Reference Number: _____							
18b. Alternate Facility (or Generator)				U.S. EPA ID Number			
Facility's Phone:							
18c. Signature of Alternate Facility (or Generator)				Month		Day Year	
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. H132		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in item 18a							
Printed/Typed Name Judy Bankhead				Signature <i>[Signature]</i>		Month Day Year 08 01 13	

GENERATOR

INT'L

TRANSPORTER

DESIGNATED FACILITY

70

k26

CWH, INC. - ENELLE

***** Receipt # 492939 *****

Page - 1

Date/Time In 8/01/13 13:19

Load Type Dumps

Federal EPA ID ALD067138891

Transporter ROBBIE D WOOD INC

DOLOHITE

AL

** WEIGHT SUMMARY **

Gross 72000.00

Tare 31840.00

Net 40160.00

Adj. Net 40160.00

Adj. Net 20.08 Tons

Truck Number 396

Trailer/Contar #1 1135

#2

#3

Rcpt Doc Document Profile Profile Generator
Ln# Ln# Number Sales Invoicing Customer

Cnt Cnt
Code

Total W DCS
Quan. V Units

Sched Federal EPA
PCB Cat Waste Status

ADEN #

1 1 0021645576BF GAG17492 LAFARGE ROAD MARKING
EAST POINT GA

1 CN

22.00 T Tons

TVSB PO Check Restriction

073115-0009

SUBCC Value - NO 06/28/14

Doc Seq # 1

ENE BIG BEND ENVIRONMENTAL SVCS

P.O. Num

Scheduled Date 08/01/13 Time 09:02 1009608-3

Federal Waste Codes D008

>51% OR <51% DEBRIS (CIRCLE)

PREFILLED VAULT Y OR N (CIRCLE)

>51% OR <51% HAC 10% INSPECTION (CIRCLE)

BULK MATERIAL ONLY:

SAMPLED/INSPECTED

FREE LIQUIDS DETECTED?

YES / NO

SELECT MATERIAL/NON-SELECT MATERIAL

WIND DISPERSAL MATERIAL?

YES / NO

PHYSICAL DESCRIPTION OF WASTE:

SAMPLER/APPROVAL

SPOT SAMPLE: B13- _____ | PHYS. DESCRIPTION _____

RAD. SCREEN

POS NEG

IGN. SCREEN

POS NEG

H2O SOL.

S F PT/SOL

H2O RXN/TEMP. INITIAL NO RXN REACTS

H2O RXN/TEMP. 5MIN. NO RXN REACTS

ph (PAPER)

CN SCREEN + - SULFIDE SCREEN + -

ADDITIONAL ANALYTICAL REQ'D? Y N

DESCRIBE:

PCB CONC. (PPM)

SULFIDE (9030)

XH2O BY KF

CYANIDE (9010C)

TAB WASTE Y N

PAINT FILTER TEST/ P F

SPEC. GRAVITY

BWZ CONC. PPM

COMMENTS: (SAFETY/OPERATIONAL)

COMPAT. TEST W/

OK RXN

ADD'L SPOT SAMPLE ATTACHED? Y N

DISPOSAL METHOD: S SP ST-3 ST-3/PT P-ST-3 P-ST-3/PT ST-5 ST-5/PT P-ST-5 S01-PTA B-PIN OTHER

P-ST-5/PT ST-8 ST-8/PT MIC HAC (HAC INSPECT) F INC SP-VS PCB-HAC P-HAC

P-ST-8 P-ST-8/PT VS-3 VS-5 VS-8

INDICATOR PARAMETER WILL BE CIRCLED

B-HAC LOADS REQUIRING INSPECTION THAT ARE FOUND TO BE LESS THAN 51% MUST

BE RETURNED TO LAB AND PLACED ON HOLD.

RELEASED FOR DISPOSAL BY:

DATE:

DUMPF# 1170

9 Trk# 394

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number GAD088935860	2. Page 1 of 1	3. Emergency Response Phone (800)424-9300	4. Manifest Tracking Number 002164558 GBF		
5. Generator's Name and Mailing Address LAFARGE ROAD MARKING 2675 R N MARTIN ST EAST POINT GA 30344				Generator's Site Address (if different than mailing address)			
Generator's Phone: (973)625-3916				U.S. EPA ID Number ALD06713891			
6. Transporter 1 Company Name Robbie D. Wood, Inc.				U.S. EPA ID Number			
7. Transporter 2 Company Name				U.S. EPA ID Number			
8. Designated Facility Name and Site Address CHEMICAL WASTE MANAGEMENT, INC. HIGHWAY 17 NORTH, MILE MARKER 163 EMELLE AL 35459				U.S. EPA ID Number ALD000622464			
Facility's Phone: (205)652-9721							
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
		No.	Type				
X	1. RQ, NA3077, HAZARDOUS WASTE, SOLID, N.O.S., 9, III (D008) GA617492	1	Dump	3200 P		D008	
	2.						
	3.						
	4.						
14. Special Handling Instructions and Additional Information 1. GA617492 ERG-171 ERI PROVIDER: CHEMTREC (CONTRACT CCN24117)							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offeror's Printed/Typed Name Joe Mc Carthy, on behalf of LRM, Inc.				Signature <i>[Signature]</i>		Month Day Year 8 01 13	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____							
17. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name X Tony C. Moore Sr.				Signature <i>[Signature]</i>		Month Day Year 8 01 13	
Transporter 2 Printed/Typed Name				Signature		Month Day Year	
18. Discrepancy							
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection							
Manifest Reference Number:							
18b. Alternate Facility (or Generator)						U.S. EPA ID Number	
Facility's Phone:							
18c. Signature of Alternate Facility (or Generator)						Month Day Year	
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. H132		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name Mal Alexander				Signature <i>[Signature]</i>		Month Day Year 8 2 13	

70

k26

CWN, INC. - ENELLE

***** Receipt # 492942 *****

Page - 1

Date/Time In 8/02/13 7:26

Load Type Duaps

Federal EPA ID ALD067130891

Transporter ROBBIE D WOOD INC

DOLomite

AL

** WEIGHT SUMMARY **

Gross 66600.00

Tare .00

Net 31500.00

Adj. Net 35,040.00

Adj. Net .00

Truck Number 394

Trailer/Contar #1 1145

#2

#3

Rcpt Doc Ln#	Document Number	Profile Sales	Profile Invoicing	Generator Customer	Cnt #	Cnt Code	Total Quan.	W DCS V Units	Sched PCB	Federal EPA Cat	Waste Status	ADEM #
1 1	002164558GBF	GAG17492	LAFARGE ROAD	HARKING EAST POINT GA	1	DT	32000.00	P Pounds	TVSB PL	Check Restriction		073115-0009
							SUBCC Value -		NO 06/28/14			
Doc Seq #	1	ENE	BIG BEND ENVIRONMENTAL SVCS		P.D. Num		Scheduled Date 08/02/13 Time 08:32 1009789-2					

Federal Waste Codes D008

>51% OR <51% DEBRIS (CIRCLE)

PREFILLED VAULT Y OR N (CIRCLE)

>51% OR <51% HAC 10% INSPECTION (CIRCLE)

BULK MATERIAL ONLY:

SAMPLED/INSPECTED

FREE LIQUIDS DETECTED?

YES / NO

SELECT MATERIAL/NON-SELECT MATERIAL

WIND DISPERSAL MATERIAL?

YES / NO

PHYSICAL DESCRIPTION OF WASTE:

SAMPLER/APPROVAL

SPOT SAMPLE:	B13-	PHYS. DESCRIPTION
RAD. SCREEN	POS NEG	
IGN. SCREEN	POS NEG	
H2O SOL.	S F PT/SOL	
H2O RXN/TEMP.	INITIAL NO RXN REACTS	
H2O RXN/TEMP.	5MIN. NO RXN REACTS	
ph (PAPER)		
CN SCREEN	+ - SULFIDE SCREEN + -	

ADDITIONAL ANALYTICAL REQ'D? Y N

DESCRIBE:

PCB CONC. (PPH)	SULFIDE (9030)	
XE20 BY KF	CYANIDE (9010C)	TAB WASTE Y N
PAINT FILTER TEST/ P F	SPEC. GRAVITY	BNZ CONC. PPH

COMMENTS: (SAFETY/OPERATIONAL)

COMPAT. TEST W/ OK RXN

ADD'L SPOT SAMPLE ATTACHED? Y N

DISPOSAL METHOD: S SP ST-3 ST-3/PT P-ST-3 P-ST-3/PT ST-5 ST-5/PT P-ST-5 S01-PTA B-PIN OTHER

P-ST-5/PT ST-6 ST-8/PT NIC HAC (HAC INSPECT) F INC SP-VS PCB-HAC P-HAC

P-ST-8 P-ST-8/PT VS-3 VS-5 VS-8

INDICATOR PARAMETER WILL BE CIRCLED

B-HAC LOADS REQUIRING INSPECTION THAT ARE FOUND TO BE LESS THAN 51% MUST BE RETURNED TO LAB AND PLACED ON HOLD.

RELEASED FOR DISPOSAL BY: DATE:

1143

#10 Trk # 5174

CWM

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number GAD089335980	2. Page 1 of 1	3. Emergency Response Phone (300)424-9300	4. Manifest Tracking Number 002164559 GBF				
5. Generator's Name and Mailing Address LAFARGE ROAD MARKING 2675 R N MARTIN ST EAST POINT GA 30344 Generator's Phone: (973)625-3816				Generator's Site Address (if different than mailing address)					
6. Transporter 1 Company Name Robbie D. Wood, Inc.				U.S. EPA ID Number ALD067138891					
7. Transporter 2 Company Name				U.S. EPA ID Number					
8. Designated Facility Name and Site Address CHEMICAL WASTE MANAGEMENT, INC. HIGHWAY 17 NORTH, MILE MARKER 103 EMELLE AL 35459 Facility's Phone: (205)352-9721				U.S. EPA ID Number ALD000622464					
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))			10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
	1. RG, NA3077, HAZARDOUS WASTE, SOLID, N.O.S., 9, III (D008) GA617492			No.	Type	15.92	T	D008	
				1	DT	207			
						10/6/13			
14. Special Handling Instructions and Additional Information 1. GA617492 ERG-171 ERI PROVIDER: CHEMTREC (CONTRACT CCN24117)									
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.									
Generator's/Offoror's Printed/Typed Name Joe McCarthy, Pres.				Signature <i>Joe McCarthy</i>				Month Day Year 8 01 13	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____									
17. Transporter Acknowledgment of Receipt of Materials									
Transporter 1 Printed/Typed Name Earnest Winston				Signature <i>Earnest Winston</i>				Month Day Year 8 01 13	
Transporter 2 Printed/Typed Name				Signature				Month Day Year	
18. Discrepancy									
18a. Discrepancy Indication Space <input checked="" type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection Corrected wt per Joe McCarthy 10/06/13									
18b. Alternate Facility (or Generator)						U.S. EPA ID Number			
Facility's Phone:									
18c. Signature of Alternate Facility (or Generator)								Month Day Year	
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)									
1. H132		2.		3.		4.			
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a									
Printed/Typed Name Mal Alexander				Signature <i>Mal Alexander</i>				Month Day Year 8 1 13	

69

k26

CWH, INC. - EHELLE

***** Receipt # 492940 *****

Page - 1

Date/Time In 8/01/13 14:01

Load Type Dumps

Federal EPA ID ALD067138891

Transporter ROBBIE D WOOD INC

DOLOHITE

AL

** WEIGHT SUMMARY **

Gross 62900.00

Tare 31140.00

Net 31760.00

Adj. 31840.00

Adj. Net .00

Truck Number 5174

Trailer/Contar #1 1143

#2

#3

15.92 Tons

Rcpt Doc Ln#	Document Number	Profile Sales	Profile Invoicing	Generator Customer	Cnt #	Cnt Code	Total Quan.	V Units	DCS	Sched PCB	Federal Cat	EPA Waste Status
--------------	-----------------	---------------	-------------------	--------------------	-------	----------	-------------	---------	-----	-----------	-------------	------------------

1	00216455968F	GAG17492	LAFARGE ROAD MARKING	EAST POINT GA	1	DT	20.00	T	Tons	TVSB PR	Check	Restriction
---	--------------	----------	----------------------	---------------	---	----	-------	---	------	---------	-------	-------------

SUBCC Value - NO 06/28/14

Doc Seq # 1 ENE BIG BEND ENVIRONMENTAL SVCS P.O. Num

Scheduled Date 08/01/13 Time 10:02 1009688-4

Federal Waste Codes D008

>51% OR <51% DEBRIS (CIRCLE)

PREFILLED VAULT Y OR N (CIRCLE)

>51% OR <51% HAC 10% INSPECTION (CIRCLE)

BULK MATERIAL ONLY:

SAMPLED/INSPECTED

FREE LIQUIDS DETECTED?

YES / NO

SELECT MATERIAL/NON-SELECT MATERIAL

WIND DISPERSAL MATERIAL?

YES / NO

PHYSICAL DESCRIPTION OF WASTE:

SAMPLER/APPROVAL

SPOT SAMPLE: B13- _____ | PHYS. DESCRIPTION _____

RAD. SCREEN POS NEG _____ | _____

IGN. SCREEN POS NEG _____ | _____

H2O SOL. S F PT/SOL _____ | _____

H2O RXN/TEMP. INITIAL NO RXN REACTS _____ | _____

H2O RXN/TEMP. 5MIN. NO RXN REACTS _____ | _____

ph (PAPER) _____ | _____

CM SCREEN + - SULFIDE SCREEN + - | _____

ADDITIONAL ANALYTICAL REQ'D? Y N _____

DESCRIBE: _____

PCB CONC. (PPH) _____ SULFIDE (9030) _____

XH2O BY KF _____ CYANIDE (9010C) _____ TAB WASTE Y N _____

PAINT FILTER TEST/ P F SPEC. GRAVITY _____ BNZ CONC. _____ PPH _____

COMMENTS: (SAFETY/OPERATIONAL) _____

COMPAT. TEST W/ _____ OK _____ RXN _____

ADD'L SPOT SAMPLE ATTACHED? Y N _____

DISPOSAL METHOD: S SP ST-3 ST-3/PT P-ST-3 P-ST-3/PT ST-5 ST-5/PT P-ST-5 S01-PTA B-PIN OTHER _____

P-ST-5/PT ST-8 ST-8/PT NIC HAC (HAC INSPECT) F INC SP-VS PCB-NAC P-NAC _____

P-ST-8 P-ST-8/PT VS-3 VS-5 VS-8 _____

INDICATOR PARAMETER WILL BE CIRCLED

B-HAC LOADS REQUIRING INSPECTION THAT ARE FOUND TO BE LESS THAN 51% MUST BE RETURNED TO LAB AND PLACED ON HOLD.

RELEASED FOR DISPOSAL BY: _____ DATE: _____

#11 Trk #396

CWMI

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number GAD088935960	2. Page 1 of 1	3. Emergency Response Phone (800)424-9300	4. Manifest Tracking Number 002164560 GBF			
5. Generator's Name and Mailing Address LAFARGE ROAD MARKING 2675 R N MARTIN ST EAST POINT GA 30344				Generator's Site Address (if different than mailing address)				
Generator's Phone: (973)625-3916								
6. Transporter 1 Company Name Robbie D. Wood, Inc.				U.S. EPA ID Number ALD067138891				
7. Transporter 2 Company Name				U.S. EPA ID Number				
8. Designated Facility Name and Site Address CHEMICAL WASTE MANAGEMENT, INC. HIGHWAY 17 NORTH, MILE MARKER 163 EMELLE AL 35459				U.S. EPA ID Number ALD000622464				
Facility's Phone: (205)652-9721								
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
			No.	Type				
	X	1. RQ,NA3077,HAZARDOUS WASTE,SOLID,N.O.S.,9,III (D008)						
			GA617492	1	Dr	20	tons	D008
14. Special Handling Instructions and Additional Information 1. GA617492 ERG-171								
ERI PROVIDER: CHEMTREC (CONTRACT CCN24117)								
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.								
Generator's/Offoror's Printed/Typed Name Joe McCarthy, Pres. on behalf of LRM, inc.				Signature <i>[Signature]</i>		Month Day Year 7 10 13		
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____								
17. Transporter Acknowledgment of Receipt of Materials								
Transporter 1 Printed/Typed Name TONY WEAVER				Signature <i>[Signature]</i>		Month Day Year 8 02 13		
Transporter 2 Printed/Typed Name				Signature		Month Day Year		
18. Discrepancy								
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection								
Manifest Reference Number:								
18b. Alternate Facility (or Generator) U.S. EPA ID Number								
Facility's Phone:								
18c. Signature of Alternate Facility (or Generator) Month Day Year								
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)								
1. H132		2.		3.		4.		
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a								
Printed/Typed Name Mal Alexander				Signature <i>[Signature]</i>		Month Day Year 8 2 13		

70

k26

CWH, INC. - ENELLE

***** Receipt # 492958 *****

Page - 1

Date/Time In 8/02/13 13:02

Load Type Dumps

Federal EPA ID ALD067138891

Transporter ROBBIE D WOOD INC

DOLONITE

AL

** WEIGHT SUMMARY **

Gross 71140.00

Tare 31400.00

Net 39740.00

Adj. Net 39740.00

Adj. Net 19.87 Tons

Truck Number 396 Trailer/Contnr #1 1135 #2 #3

Rcpt Ln#	Doc Ln#	Document Number	Profile Sales	Profile Invoicing	Generator Customer	Cat #	Cat Code	Total Quan.	V Units	DCS	Sched PCB	Federal Cat	EPA Waste Status	ADEN #
1	1	0021645608F	GAG17492	LAFARGE ROAD	HARKING EAST POINT GA	1	DT	20.00	T	Tons	TVSB PO	Check	Restriction	073115-0009
Doc Seq # 1 ENE BIG BEND ENVIRONMENTAL SVCS P.O. Num														
Scheduled Date 08/02/13 Time 09:02 1009789-1														
Federal Waste Codes D008														
>51X OR <51X DEBRIS (CIRCLE)														
PREFILLED VAULT Y OR N (CIRCLE)														
>51X OR <51X MAC 10% INSPECTION (CIRCLE)														
BULK MATERIAL ONLY:														
SAMPLED/INSPECTED FREE LIQUIDS DETECTED? YES / NO														
SELECT MATERIAL/NON-SELECT MATERIAL WIND DISPERSAL MATERIAL? YES / NO														
SUBCC Value - NO 06/28/14														

PHYSICAL DESCRIPTION OF WASTE: _____ SAMPLER/APPROVAL _____

SPOT SAMPLE: B13- _____ | PHYS. DESCRIPTION _____

RAD. SCREEN POS NEG | _____

IGN. SCREEN POS NEG | _____

H2O SOL. S F PT/SOL | _____

H2O RXN/TEMP. INITIAL NO RXN REACTS | _____

H2O RXN/TEMP. 5MIN. NO RXN REACTS | _____

ph (PAPER) | _____

CN SCREEN + - SULFIDE SCREEN + - | _____

ADDITIONAL ANALYTICAL REQ'D? Y N _____

DESCRIBE: _____

PCB CONC. (PPH) _____ SULFIDE (9030) _____

XH2O BY KF _____ CYANIDE (9010C) _____ TAB WASTE Y N _____

PAINT FILTER TEST/ P F SPEC. GRAVITY _____ BMZ CONC. PPH _____

COMMENTS: (SAFETY/OPERATIONAL) _____

COMPAT. TEST W/ _____ OK RXN _____

ADD'L SPOT SAMPLE ATTACHED? Y N _____

DISPOSAL METHOD: S SP ST-3 ST-3/PT P-ST-3 P-ST-3/PT ST-5 ST-5/PT P-ST-5 S01-PTA B-PIN OTHER _____

P-ST-5/PT ST-8 ST-8/PT NIC MAC (MAC INSPECT) F INC SP-VS PCB-MAC P-MAC

P-ST-8 P-ST-8/PT VS-3 VS-5 VS-8

INDICATOR PARAMETER WILL BE CIRCLED

B-MAC LOADS REQUIRING INSPECTION THAT ARE FOUND TO BE LESS THAN 51X MUST BE RETURNED TO LAB AND PLACED ON HOLD.

RELEASED FOR DISPOSAL BY: _____ DATE: _____

1143

12

T.R.K # 5174 CWM

Please print or type (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number GAD036935900	2. Page 1 of 1	3. Emergency Response Phone (800)424-9300	4. Manifest Tracking Number 002164561 GBF	
5. Generator's Name and Mailing Address LAFARGE ROAD MARKING 2875 R N MARTIN ST EAST POINT GA 30244 Generator's Phone: (873)822-2810			Generator's Site Address (if different than mailing address)			
6. Transporter 1 Company Name Robbie D. Woods, Inc.			U.S. EPA ID Number ALD0867138891			
7. Transporter 2 Company Name			U.S. EPA ID Number			
8. Designated Facility Name and Site Address CHEMICAL WASTE MANAGEMENT, INC. HIGHWAY 17 NORTH, MILE MARKER 163 EMELLE AL 35450 Facility's Phone: (205)852-6721			U.S. EPA ID Number ALD000622484			
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
		No.	Type			
X	1. RO, NA3077, HAZARDOUS WASTE, SOLID, N.O.S., 0, III (D008) GA617492	1	DT	23.48 DOT LA 08/06/13	T	D008
	2.					
	3.					
	4.					
14. Special Handling Instructions and Additional Information 1. GA617492 ERG-171 ERI PROVIDER: CHEMTREC (CONTRACT CCN24117)						
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.						
Generator's/Offoror's Printed/Typed Name Joe M. McCarthy, on behalf of LRM, Inc.			Signature Joe McCarthy		Month Day Year 8 16 13	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____						
17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name: Ernest Winston Signature: Ernest Winston Month Day Year: 8 12 13 Transporter 2 Printed/Typed Name: _____ Signature: _____ Month Day Year: _____						
18. Discrepancy 18a. Discrepancy Indication Space <input checked="" type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection corrected wt per Joe McCarthy LA 08/06/13 18b. Alternate Facility (or Generator) _____ Manifest Reference Number: _____ U.S. EPA ID Number: _____ Facility's Phone: _____ 18c. Signature of Alternate Facility (or Generator) _____ Month Day Year: _____						
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) 1. H132 2. 3. 4.						
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a Printed/Typed Name: Mal Alexander Signature: Mal Alexander Month Day Year: 8 15 13						

GENERATOR

INT'L

TRANSPORTER

DESIGNATED FACILITY

70

k26

CWH, INC. - ENELLE

***** Receipt # 492965 *****

Page - 1

Date/Time In 8/05/13 7:27

Load Type Dumps

Federal EPA ID ALD067138891

Transporter ROBBIE D WOOD INC
DOLONITE

AL

** WEIGHT SUMMARY **

Gross 77900.00

Tare 30940.00

Net 46960.00

Adj. Net

23.48 Tons

Truck Number 5174

Trailer/Contnr #1 1143

#2

#3

Rcpt Ln#	Doc Ln#	Document Number	Profile Sales	Profile Invoicing	Generator Customer	Cnt #	Cat Code	Total Quan.	W V Units	DCS	Sched PCB	Federal Cat	EPA Waste Status	ADEN #
1	1	002164561GBF	GA617492	LAFARGE ROAD MARKING	EAST POINT GA	1	DT	20.00	T	Tons	TVSB PQ	Check	Restriction	073115-0009

SUBCC Value - NO 06/28/14

Doc Seq # 1 ENE BIG BEND ENVIRONMENTAL SVCS P.O. Num

Scheduled Date 08/05/13 Time 10:01 1009883-2

Federal Waste Codes D000

- >51% OR <51% DEBRIS (CIRCLE)
- PREFILLED VAULT Y OR N (CIRCLE)
- >51% OR <51% MAC 10% INSPECTION (CIRCLE)

BULK MATERIAL ONLY:

SAMPLED/INSPECTED _____ FREE LIQUIDS DETECTED? YES / NO

SELECT MATERIAL/NON-SELECT MATERIAL _____ WIND DISPERSAL MATERIAL? YES / NO

PHYSICAL DESCRIPTION OF WASTE: _____ SAMPLER/APPROVAL _____

SPOT SAMPLE: B13- _____ | PHYS. DESCRIPTION _____

RAD. SCREEN POS NEG | _____

IGN. SCREEN POS NEG | _____

H2O SOL. S F PT/SOL | _____

H2O RXN/TEMP. INITIAL NO RXN REACTS | _____

H2O RXN/TEMP. 5MIN. NO RXN REACTS | _____

ph (PAPER) _____ | _____

CN SCREEN + - - SULFIDE SCREEN + - - | _____

ADDITIONAL ANALYTICAL REQ'D? Y N _____

DESCRIBE: _____

PCB CONC. (PPM) _____ SULFIDE (9030) _____

XN20 BY KF _____ CYANIDE (9010C) _____ TAB WASTE Y N _____

PAINT FILTER TEST/ P F SPEC. GRAVITY _____ BNZ CONC. PPM _____

COMMENTS: (SAFETY/OPERATIONAL) _____

COMPAT. TEST W/ _____ OK RXN _____

ADD'L SPOT SAMPLE ATTACHED? Y N _____

DISPOSAL METHOD: S SP ST-3 ST-3/PT P-ST-3 P-ST-3/PT ST-5 ST-5/PT P-ST-5 S01-PTA B-PIN OTHER _____

P-ST-5/PT ST-8 ST-8/PT NIC MAC (MAC INSPECT) F INC SP-VS PCB-MAC P-MAC

P-ST-8 P-ST-8/PT VS-3 VS-5 VS-8

INDICATOR PARAMETER WILL BE CIRCLED

B-MAC LOADS REQUIRING INSPECTION THAT ARE FOUND TO BE LESS THAN 51% MUST BE RETURNED TO LAB AND PLACED ON HOLD.

RELEASED FOR DISPOSAL BY: _____ DATE: _____

180184

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number GAD088935960	2. Page 1 of	3. Emergency Response Phone 631-225-3044	4. Manifest Tracking Number 010669245 JJK
---	--	--------------	---	---

5. Generator's Name and Mailing Address: LAFARGE ROAD MARKINGS C/O INNOVATIVE RECYCLIN, 2675 NORTH MARTIN STREET, EAST POINT, GA 30344
 Generator's Site Address (if different than mailing address):
 Generator's Phone: 631-225-3044

6. Transporter 1 Company Name: MEI
 U.S. EPA ID Number: TNR000019604

7. Transporter 2 Company Name: _____
 U.S. EPA ID Number: _____

8. Designated Facility Name and Site Address: GIANT RESOURCE RECOVERY (AL), 1229 VALLEY DRIVE, ATTALLA, AL 35854
 Facility's Phone: 205-837-4022
 U.S. EPA ID Number: ALDG0513767

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
		No.	Type			F001	F002	F003
x	1. UN1993, RG, WASTE, FLAMMABLE LIQUID, N.O.S. (TOLUENE/XYLENE), 3, POIL, ERG-1.23 #61852	001	41C VT	1900	C	F001	F002	F003
	2.					F005		
	3.							
	4.							

14. Special Handling Instructions and Additional Information: NEEDS CD SENT TO US WASTE 24 HR EMERGENCY CONTACT IVAN JENKINS 678-578-1136 AHC-4933 ARR 100 INNOVATIVE RECYCLING ARR 730 DEPT 1000 DEPT 330

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offor's Printed/Typed Name: IVAN Jenkins as agent for Lafarge Road Marking
 Signature: Ivan Jenkins
 Month Day Year: 01 13 15

16. International Shipments: Import to U.S. Export from U.S.
 Port of entry/exit: _____
 Date leaving U.S.: _____

17. Transporter Acknowledgment of Receipt of Materials
 Transporter 1 Printed/Typed Name: George Rodabush
 Signature: George Rodabush
 Month Day Year: 1 13 15
 Transporter 2 Printed/Typed Name: _____
 Signature: _____
 Month Day Year: _____

18. Discrepancy
 18a. Discrepancy Indication Space: Quantity Type Residue Partial Rejection Full Rejection
 Manifest Reference Number: _____

18b. Alternate Facility (or Generator): _____
 U.S. EPA ID Number: _____
 Facility's Phone: _____

18c. Signature of Alternate Facility (or Generator): _____
 Month Day Year: _____

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
 1. H061 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
 Printed/Typed Name: Jonathan Brown
 Signature: Jonathan Brown
 Month Day Year: 01 13 15

GENERATOR
INT'L
TRANSPORTER
DESIGNATED FACILITY

Certificate of Compliance and Disposal

Grr! - Attalla, Inc.
1229 Valley Drive
Attalla, AL 35954

LAFARGE ROAD MARKING INC.
2675 R.N. MARTIN STREET
EAST POINT, GA 30344

ATTN: Ivan G.

This certifies that materials received under manifest number 010669245JJK (Document 180184) on (date) 13-JAN-15 were disposed of in compliance with all State and Federal laws and regulations on 1/13/15.

By: John Wilson, Sales Manager

Signature: John Wilson

Date: 1-20-15



Pine Bluff Landfill
 13809 E. Cherokee Drive
 Ball Ground, GA, 30107
 Ph: (770) 479-2936

Original
 Ticket# 1065004

Customer Name	BIGBENDENV BIG BEND ENVIRONME	Carrier	Newsome Trucking	Newsome Trucking
Ticket Date	05/03/2013	Vehicle#	n216	Voluse
Payment Type	Credit Account	Container		
Manual Ticket#		Driver		
Hauling Ticket#		Check#		
Route		Billing #	0102756	
State Waste Code		Gen EPA ID	NR	
Manifest	01791850	Grid		
Destination				
PO				
Profile	4018446A (NON RCRA SIMPACTED SOILS)			
Generator	111-LAFARGERDAD LAFARGE ROAD MARKING			

Time	Scale	Operator	Inbound	Gross	
In 05/03/2013 09:33:25	Scale 2	vdaniel			58240 lb
Out 05/03/2013 09:33:25		vdaniel		Tare	22100 lb
				Net	36140 lb
				Tons	18.07

Comments

WM WILL NOT BE RESPONSIBLE FOR ACCIDENTS FROM PULLING, PUSHING VEHICLES

Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1 Cont Soil Sp. W.-T	100	18.07	Tons				FULTON
2 TTE-TRANSPORTATION	100	18.07	Tons				FULTON

Total Fees
 Total Ticket

404WM

Driver's Signature





NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST		1. Generator's US EPA ID No. G A D 0 9 9 0 3 5 9 6 0	Manifest Doc No.	2. Page 1 of 1	TR 216
3. Generator's Mailing Address: LAFARGE ROAD MARKING, INC 2675 R N MARTIN ST EAST POINT, GA 30344		Generator's Site Address (if different than mailing):		WMNA 01791850	B. State Generator's ID
4. Generator's Phone 973-625-3916	5. Transporter 1 Company Name WASTE Management		6. US EPA ID Number	C. State Transporter's ID	D. Transporter's Phone
7. Transporter 2 Company Name		8. US EPA ID Number		E. State Transporter's ID	F. Transporter's Phone
9. Designated Facility Name and Site Address PINE BLUFF LANDFILL 13809 E CHEROKEE RD BALL GROUND, GA 30107		10. US EPA ID Number		G. State Facility ID 028-039D (SL)	H. State Facility Phone 770-479-2936
GENERATOR	11. Description of Waste Materials		12. Containers		13. Total Quantity
	a. NON-HAZARDOUS NON-RCRA IMPACTED SOILS/DEBRIS NON-DOT REGULATED		No.	Type	18.07
	WM Profile # 401844GA				
	b. WM Profile #				
	c. WM Profile #				
d. WM Profile #					
14. Additional Descriptions for Materials Listed Above		K. Disposal Location			
		Cell		Level	
		Grid			
15. Special Handling Instructions and Additional Information					
Purchase Order #		EMERGENCY CONTACT / PHONE NO.:			
16. GENERATOR'S CERTIFICATE: I hereby certify that the above-described materials are not hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.					
Printed Name Jake Meyer		Signature "On behalf of" <i>Jake Meyer</i>		Month 05	Day 3
				Year 13	
TRANSPORTER	17. Transporter 1 Acknowledgement of Receipt of Materials		Signature <i>John Obayomi</i>		Month 05
	Printed Name John Obayomi				Day 3
					Year 13
DISPOSER	18. Transporter 2 Acknowledgement of Receipt of Materials		Signature		Month
	Printed Name				Day
					Year
FACILITY	19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.				
	20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.				
	Printed Name Amiel		Signature <i>Amiel</i>		Month 05
				Year 13	

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Pink- FACILITY USE ONLY

Blue- GENERATOR #2 COPY
Gold- TRANSPORTER #1 COPY

Yellow- GENERATOR #1 COPY



Pine Bluff Landfill
 13009 E. Cherokee Drive
 Ball Ground, GA, 30107
 Ph: (770) 479-2936

Original
 Ticket# 1065088

Customer Name	BIGBENDENV BIG BEND ENVIRONME	Carrier	Newsome Trucking	Newsome Trucking
Ticket Date	05/03/2013	Vehicle#	N223	Voluse
Payment Type	Credit Account	Container		
Manual Ticket#		Driver		
Hauling Ticket#		Check#		
Route		Billing #	0102756	
State Waste Code		Gen EPA ID	NR	
Manifest	01791851	Grid		
Destination				
PG				
Profile	4018446A (NON RCRA SIMPACTED SOILS)			
Generator	111-LAFARGEROAD LAFARGE ROAD MARKING			

	Time	Scale	Operator	Inbound	Gross	
In	05/03/2013 09:39:23	Scale 2	vdaniel			58240 lb
Out	05/02/2013 09:39:23		vdaniel		Tare	23140 lb
					Net	35100 lb
					Tons	17.55

Comments

WM WILL NOT BE RESPONSIBLE FOR ACCIDENTS FROM PULLING, PUSHING VEHICLES

Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1 Cont Soil Sp. W.-T	100	17.55	Tons				FULTON
2 TTE-TRANSPORTATION	100	17.55	Tons				FULTON

[Handwritten Signature]

Total Fees
 Total Ticket

404WM

Driver's Signature





NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. G A D 0 9 9 0 3 5 9 6 0	Manifest Doc No.	2. Page 1 of # 2	TRK # 223	
3. Generator's Mailing Address: LAFARGE ROAD MARKING, INC 2675 R N MARTIN ST EAST POINT, GA 30344		Generator's Site Address (if different than mailing):		B. State Generator's ID 01791851	
4. Generator's Phone 973-625-3916		6. US EPA ID Number		C. State Transporter's ID	
5. Transporter 1 Company Name WASTE Management		8. US EPA ID Number		D. Transporter's Phone	
7. Transporter 2 Company Name		10. US EPA ID Number		E. State Transporter's ID	
9. Designated Facility Name and Site Address PINE BLUFF LANDFILL 13809 E CHEROKEE RD BALL GROUND, GA 30107				F. Transporter's Phone	
				G. State Facility ID 028-039D (SL)	
				H. State Facility Phone 770-479-2936	
GENERATOR	11. Description of Waste Materials		12. Containers	13. Total Quantity	
	a. NON-HAZARDOUS NON-RCRA IMPACTED SOILS/DEBRIS NON-DOT REGULATED		No.	Type	
	WM Profile # 401844GA				14. Unit Wt./Vol.
	b.				1. Misc Comments
	WM Profile #				
c.					
WM Profile #					
d.					
WM Profile #					
J. Additional Descriptions for Materials Listed Above		K. Disposal Location			
		Cell		Level	
		Grid			
15. Special Handling Instructions and Additional Information					
Purchase Order #		EMERGENCY CONTACT / PHONE NO.			
16. GENERATOR'S CERTIFICATE: I hereby certify that the above-described materials are not hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.					
Printed Name John Mayer		Signature "On behalf of" <i>[Signature]</i> ALRM		Month 5	
				Day 3	
				Year 13	
TRANSPORTER	17. Transporter 1 Acknowledgement of Receipt of Materials				
	Printed Name DAN HASTINGS		Signature <i>[Signature]</i>		Month 5
					Day 3
				Year 13	
18. Transporter 2 Acknowledgement of Receipt of Materials					
Printed Name		Signature		Month	
				Day	
				Year	
FACILITY	19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.				
	20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.				
	Printed Name Vivian		Signature <i>[Signature]</i>		Month 5
				Day 3	
				Year 13	

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Pink- FACILITY USE ONLY

Blue- GENERATOR #2 COPY
Gold- TRANSPORTER #1 COPY

Yellow- GENERATOR #1 COPY



Pine Bluff Landfill
 13809 E. Cherokee Drive
 Ball Ground, GA, 30107
 Ph: (770) 479-2936

Original
 Ticket# 1065150

Customer Name	BIGBENDENV BIG BEND ENVIRONME	Carrier	Newsome Trucking	Newsome Trucking
Ticket Date	05/03/2013	Vehicle#	n216	Voluse
Payment Type	Credit Account	Container		
Manual Ticket#		Driver		
Hauling Ticket#		Check#		
Route		Billing #	0102756	
State Waste Code		Gen EPA ID	NR	
Manifest	01791852	Grid		
Destination				
PD				
Profile	4018446A (NON RCRA SIMPACTED SOILS)			
Generator	111-LAFARGEROAD LAFARGE ROAD MARKING			

	Time	Scale	Operator	Inbound	Gross	
In	05/03/2013 12:20:48	Scale 2	VDANIEL			61200 lb
Out	05/03/2013 12:20:48		VDANIEL		Tare	22100 lb
					Net	39100 lb
					Tons	19.59

Comments

WM WILL NOT BE RESPONSIBLE FOR ACCIDENTS FROM PULLING, PUSHING VEHICLES

Product	LDX	Qty	UOM	Rate	Fee	Amount	Origin
1	Cont Soil Sp. W.-T 100	19.59	Tons				FULTON
2	TTE-TRANSPORTATION 100	19.59	Tons				FULTON

Total Fees
 Total Ticket

404WM
 Driver's Signature





NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST		1. Generator's US EPA ID No. G A D 0 9 9 0 3 5 9 6 0		Manifest Doc No.		2. Page 1 of 03		TRK # 216										
3. Generator's Mailing Address: LAFARGE ROAD MARKING, INC 2675 R N MARTIN ST EAST POINT, GA 30344				Generator's Site Address (if different than mailing):				WMNA		01791852								
4. Generator's Phone 973-625-3916								B. State Generator's ID										
5. Transporter 1 Company Name WASTE Management				6. US EPA ID Number				C. State Transporter's ID										
7. Transporter 2 Company Name				8. US EPA ID Number				D. Transporter's Phone										
9. Designated Facility Name and Site Address PINE BLUFF LANDFILL 13809 E CHEROKEE RD BALL GROUND, GA 30107				10. US EPA ID Number				E. State Transporter's ID										
								F. Transporter's Phone										
								G. State Facility ID 028-039D (SL)										
								H. State Facility Phone 770-479-2936										
GENERATOR	11. Description of Waste Materials					12. Containers		13. Total Quantity		14. Unit Wt./Vol		1. Misc. Comments						
	a. NON-HAZARDOUS NON-RCRA IMPACTED SOILS/DEBRIS NON-DOT REGULATED					No		Type										
	WM Profile # 401844GA									19.99								
	b. WM Profile #																	
	c. WM Profile #																	
d. WM Profile #																		
J. Additional Descriptions for Materials Listed Above					K. Disposal Location													
					Cell				Level									
					Grid													
15. Special Handling Instructions and Additional Information																		
Purchase Order #						EMERGENCY CONTACT / PHONE NO.:												
16. GENERATOR'S CERTIFICATE: I hereby certify that the above-described materials are not hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.																		
Printed Name Jake Meyer				Signature "On behalf of" [Signature] "LRM"				Month		Day		Year						
TRANSPORTER	17. Transporter 1 Acknowledgement of Receipt of Materials				Printed Name [Signature]				Signature [Signature]				Month		Day		Year	
	18. Transporter 2 Acknowledgement of Receipt of Materials				Printed Name				Signature				Month		Day		Year	
FACILITY	19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.																	
	20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest																	
Printed Name [Signature]				Signature [Signature]				Month		Day		Year						

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Pink- FACILITY USE ONLY

Blue- GENERATOR #2 COPY
Gold- TRANSPORTER #1 COPY

Yellow- GENERATOR #1 COPY



Pine Bluff Landfill
 13809 E. Cherokee Drive
 Ball Ground, GA, 30107
 Ph: (770) 479-2936

Original
 Ticket# 1065155

Customer Name	BIGBENDENV BIG BEND ENVIRONME	Carrier	Newsome Trucking	Newsome Trucking
Ticket Date	05/03/2013	Vehicle#	N223	Volume
Payment Type	Credit Account	Container		
Manual Ticket#		Driver		
Hauling Ticket#		Check#		
Route		Billing #	0102756	
State Waste Code		Gen EPA ID	NR	
Manifest	01791853	Grid		
Destination				
PO				
Profile	4018446A (NON RCRA SIMPACTED SOILS)			
Generator	111-LAFARGEROAD LAFARGE ROAD MARKING			

	Time	Scale	Operator	Inbound	Gross	
In	05/03/2013 12:29:51	Scale 1	FJ		Tare	56700 lb
Out	05/03/2013 12:29:51		FJ		Net	23140 lb
					Tons	33560 lb
						16.78

Comments

WM WILL NOT BE RESPONSIBLE FOR ACCIDENTS FROM PULLING, PUSHING VEHICLES

Product	LDX	Qty	UOM	Rate	Fee	Amount	Origin
1	Cont Soil Sp. W.-T 100	16.78	Tons				FULTON
2	TTE-TRANSPORTATION 100	16.78	Tons				FULTON

Total Fees
 Total Ticket





NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST		1. Generator's US EPA ID No. G A D 0 9 9 0 3 5 9 6 0		Manifest Doc No. 04		2. Page 1 of 04		TRK # 223				
3. Generator's Mailing Address: LAFARGE ROAD MARKING, INC 2675 R N MARTIN ST EAST POINT, GA 30344				Generator's Site Address (if different than mailing):				WMNA 01791853		B. State Generator's ID		
4. Generator's Phone 973-625-3916				5. Transporter 1 Company Name WASTE Management N223				6. US EPA ID Number				
7. Transporter 2 Company Name				8. US EPA ID Number				C. State Transporter's ID				
9. Designated Facility Name and Site Address PINE BLUFF LANDFILL 13809 E CHEROKEE RD BALL GROUND, GA 30107				10. US EPA ID Number				D. Transporter's Phone				
								E. State Transporter's ID				
								F. Transporter's Phone				
								G. State Facility ID 028-039D (SL)				
								H. State Facility Phone 770-479-2936				
GENERATOR	11. Description of Waste Materials					12. Containers		13. Total Quantity	14. Unit Wt./Vol.	I. Misc Comments		
	a. NON-HAZARDOUS NON-RCRA IMPACTED SOILS/DEBRIS NON-DOT REGULATED							16.98	T			
	WM Profile # 401844GA											
	b.											
	WM Profile #											
	c.											
WM Profile #												
d.												
WM Profile #												
J. Additional Descriptions for Materials Listed Above					K. Disposal Location							
					Cell				Level			
					Grid							
15. Special Handling Instructions and Additional Information												
Purchase Order #						EMERGENCY CONTACT / PHONE NO.						
16. GENERATOR'S CERTIFICATE: I hereby certify that the above-described materials are not hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.												
Printed Name Stake Meyer				Signature "On behalf of" <i>[Signature]</i> for LRM				Month 5	Day 3	Year 13		
17. Transporter 1 Acknowledgement of Receipt of Materials												
Printed Name X PAUL HASTINGS				Signature <i>[Signature]</i>				Month 5	Day 3	Year 13		
18. Transporter 2 Acknowledgement of Receipt of Materials												
Printed Name				Signature				Month	Day	Year		
19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.												
20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.												
Printed Name Jankins				Signature <i>[Signature]</i>				Month 05	Day 03	Year 13		

GENERATOR
TRANSPORTER
FACILITY

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Pink- FACILITY USE ONLY

Blue- GENERATOR #2 COPY
Gold- TRANSPORTER #1 COPY

Yellow- GENERATOR #1 COPY



Pine Bluff Landfill
 13809 E. Cherokee Drive
 Ball Ground, GA, 30107
 Ph: (770) 479-2936

Original
 Ticket# 1065208

Customer Name	BIGBENDENV BIG BEND ENVIRONME	Carrier	Newsome Trucking	Newsome Trucking
Ticket Date	05/03/2013	Vehicle#	n216	Volume
Payment Type	Credit Account	Container		
Manual Ticket#		Driver		
Hauling Ticket#		Check#		
Route		Billing #	0102756	
State Waste Code		Gen EPA ID	NR	
Manifest	01791654	Grid		
Destination				
PO				
Profile	4018446A (NON RCRA SIMPACTED SOILS)			
Generator	111-LAFARGEROAD LAFARGE ROAD MARKING			

	Time	Scale	Operator	Inbound	Gross	
In	05/03/2013 15:49:13	Scale 2	FJ			54200 lb
Out	05/03/2013 15:49:13		FJ		Tare	22100 lb
					Net	32100 lb
					Tons	16.05

Comments

WM WILL NOT BE RESPONSIBLE FOR ACCIDENTS FROM PULLING, PUSHING VEHICLES

Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1 Cont Soil Sp. W.-T	100	16.05	Tons				FULTON
2 TTE-TRANSPORTATION	100	16.05	Tons				FULTON

404WM
 Driver's Signature

Total Fees
 Total Ticket





NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST		1. Generator's US EPA ID No. G A D 0 9 9 0 3 5 9 6 0	Manifest Doc. No.	2. Page 1 of 05	TRK # 216
3. Generator's Mailing Address: LAFARGE ROAD MARKING, INC 2675 R N MARTIN ST EAST POINT, GA 30344		Generator's Site Address (if different than mailing):		WMNA	01791854
4. Generator's Phone 973-625-3916		B. State Generator's ID			
5. Transporter 1 Company Name WASTE Management <i>NAILE</i>		6. US EPA ID Number		C. State Transporter's ID	
7. Transporter 2 Company Name		8. US EPA ID Number		D. Transporter's Phone	
9. Designated Facility Name and Site Address PINE BLUFF LANDFILL 13809 E CHEROKEE RD BALL GROUND, GA 30107		10. US EPA ID Number		E. State Transporter's ID	
				F. Transporter's Phone	
				G. State Facility ID 028-039D (SL)	
				H. State Facility Phone 770-479-2936	
GENERATOR	11. Description of Waste Materials		12. Containers		13. Total Quantity
	a. NON-HAZARDOUS NON-RCRA IMPACTED SOILS/DEBRIS NON-DOT REGULATED		No.	Type	14. Unit Wt./Vol.
	WM Profile # 401844GA				16105 T
	b.				
	WM Profile #				
	c.				
WM Profile #					
d.					
WM Profile #					
J. Additional Descriptions for Materials Listed Above		K. Disposal Location			
		Cell		Level	
		Grid			
15. Special Handling Instructions and Additional Information					
Purchase Order #		EMERGENCY CONTACT / PHONE NO.			
16. GENERATOR'S CERTIFICATE: I hereby certify that the above-described materials are not hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.					
Printed Name <i>Jack Meyer</i>		Signature "On behalf of" <i>[Signature]</i> for LRM		Month 5	Day 3
				Year 2012	
TRANSPORTER	17. Transporter 1 Acknowledgement of Receipt of Materials		Signature <i>[Signature]</i>		Month 5
	Printed Name <i>X Josh Ostrigant</i>				Day 3
					Year 2013
18. Transporter 2 Acknowledgement of Receipt of Materials		Signature		Month	Day
Printed Name					
FACILITY	19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.				
	20. Facility Owner or Operator. Certification of receipt of non-hazardous materials covered by this manifest				
	Printed Name <i>[Signature]</i>		Signature <i>[Signature]</i>		Month 05
				Day 03	
				Year 13	

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY

Blue- GENERATOR #1 COPY

Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY

Gold- TRANSPORTER #1 COPY



Pine Bluff Landfill
 13809 E. Cherokee Drive
 Ball Ground, GA, 30107
 Ph: (770) 479-2936

Original
 Ticket# 1065209

Customer Name	BIGBENDENV BIG BEND ENVIRONME	Carrier	Newsome Trucking	Newsome Trucking
Ticket Date	05/03/2013	Vehicle#	N223	Volume
Payment Type	Credit Account	Container		
Manual Ticket#		Driver		
Hauling Ticket#		Check#		
Route		Billing #	0102756	
State Waste Code		Gen EPA ID	NR	
Manifest	01791855	Grid		
Destination				
PO				
Profile	401844GA (NON RCRA SIMPACTED SOILS)			
Generator	111-LAFARGEROAD LAFARGE ROAD MARKING			

	Time	Scale	Operator	Inbound	Gross	
In	05/03/2013 15:51:01	Scale 1	FJ			57020 lb
Out	05/03/2013 15:51:01		FJ		Tare	23140 lb
					Net	33880 lb
					Tons	16.94

Comments

WM WILL NOT BE RESPONSIBLE FOR ACCIDENTS FROM PULLING, PUSHING VEHICLES

Product	LDX	Qty	UOM	Rate	Fee	Amount	Origin
1 Cont Soil Sp. W.-T	100	16.94	Tons				FULTON
2 TTE-TRANSPORTATION	100	16.94	Tons				FULTON

Paul Hastings

Total Fees
 Total Ticket

404WM

Driver's Signature





NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST		1. Generator's US EPA ID No. G A D 0 9 9 0 3 5 9 6 0	Manifest Doc No.	2. Page 1 of 06	TRK# 227
3. Generator's Mailing Address: LAFARGE ROAD MARKING, INC 2675 R N MARTIN ST EAST POINT, GA 30344		Generator's Site Address (if different than mailing):		WMNA	01791855
4. Generator's Phone 973-625-3916		B. State Generator's ID			
5. Transporter 1 Company Name WASTE Management		6. US EPA ID Number		C. State Transporter's ID	
7. Transporter 2 Company Name		8. US EPA ID Number		D. Transporter's Phone	
9. Designated Facility Name and Site Address PINE BLUFF LANDFILL 13809 E CHEROKEE RD BALL GROUND, GA 30107		10. US EPA ID Number		E. State Transporter's ID	
				F. Transporter's Phone	
				G. State Facility ID 028-039D (SL)	
				H. State Facility Phone 770-479-2936	
GENERATOR	11. Description of Waste Materials		12. Containers		13. Total
	a. NON-HAZARDOUS NON-RCRA IMPACTED SOILS/DEBRIS NON-DOT REGULATED		No.	Type	Quantity
	WM Profile # 401844GA				16.94
	b.				T
	WM Profile #				
c.					
WM Profile #					
d.					
WM Profile #					
J. Additional Descriptions for Materials Listed Above		K. Disposal Location			
		Cell		Level	
		Grid			
15. Special Handling Instructions and Additional Information					
Purchase Order #		EMERGENCY CONTACT / PHONE NO.			
16. GENERATOR'S CERTIFICATE: I hereby certify that the above-described materials are not hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.					
Printed Name Jake Meyer		Signature "On behalf of" [Signature]		Month 5	Day 3
				Year 2013	
TRANSPORTER	17. Transporter 1 Acknowledgement of Receipt of Materials				
	Printed Name Paul Hastings	Signature [Signature]		Month 5	Day 3
				Year 2013	
18. Transporter 2 Acknowledgement of Receipt of Materials					
Printed Name		Signature		Month	Day
				Year	
FACILITY	19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.				
	20. Facility Owner or Operator, Certification of receipt of non-hazardous materials covered by this manifest.				
Printed Name Jenkins		Signature [Signature]		Month 05	Day 03
				Year 13	

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Pink- FACILITY USE ONLY

Blue- GENERATOR #2 COPY
Gold- TRANSPORTER #1 COPY

Yellow- GENERATOR #1 COPY



Pine Bluff Landfill
 13809 E. Cherokee Drive
 Ball Ground, GA, 30107
 Ph: (770) 479-2936

Original
 Ticket# 1065392

Customer Name	BIGBENDENV BIG BEND ENVIRONME	Carrier	Newsome Trucking	Newsome Trucking
Ticket Date	05/06/2013	Vehicle#	N238	Volume
Payment Type	Credit Account	Container		
Manual Ticket#		Driver		
Hauling Ticket#		Check#		
Route		Billing #	0102756	
State Waste Code		Gen EPA ID	NR	
Manifest	01791856	Grid		
Destination				
PG				
Profile	4018446A (NON RCRA SIMPACTED SOILS)			
Generator	111-LAFARBERDAD LAFARGE ROAD MARKING			

	Time	Scale	Operator	Inbound	Gross	
In	05/06/2013 10:49:21	Scale 1	VDANIEL			55600 lb
Out	05/06/2013 11:05:00	Scale 1	VDANIEL		Tare	22180 lb
					Net	33420 lb
					Tons	16.71

Comments

WM WILL NOT BE RESPONSIBLE FOR ACCIDENTS FROM PULLING, PUSHING VEHICLES

Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1		Cont Soil Sp. W.-T 100	16.71	Tons			FULTON
2		TTE-TRANSPORTATION 100	16.71	Tons			FULTON

Total Fees
 Total Ticket

404WM
 Driver's Signature





NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST		1. Generator's US EPA ID No. G A D 0 9 9 0 3 5 9 6 0	Manifest Doc No.	2. Page 1 of 07	TRK# 11238
3. Generator's Mailing Address: LAFARGE ROAD MARKING, INC 2675 R N MARTIN ST EAST POINT, GA 30344		Generator's Site Address (if different than mailing):		WMNA	01791856
4. Generator's Phone 973-625-3916		B. State Generator's ID			
5. Transporter 1 Company Name WASTE Management		6. US EPA ID Number		C. State Transporter's ID	
7. Transporter 2 Company Name		8. US EPA ID Number		D. Transporter's Phone	
9. Designated Facility Name and Site Address PINE BLUFF LANDFILL 13809 E CHEROKEE RD BALL GROUND, GA 30107		10. US EPA ID Number		E. State Transporter's ID	
				F. Transporter's Phone	
				G. State Facility ID 028-039D (SL)	
				H. State Facility Phone 770-479-2936	
GENERATOR	11. Description of Waste Materials		12. Containers		13. Total
	a. NON-HAZARDOUS NON-RCRA IMPACTED SOILS/DEBRIS NON-DOT REGULATED		No.	Type	Quantity
	WM Profile # 401844GA				
	b.				
	WM Profile #				
	c.				
WM Profile #					
d.					
WM Profile #					
J. Additional Descriptions for Materials Listed Above		K. Disposal Location			
		Cell		Level	
		Grid			
15. Special Handling Instructions and Additional Information					
Purchase Order # 11238		EMERGENCY CONTACT / PHONE NO.			
16. GENERATOR'S CERTIFICATE: I hereby certify that the above-described materials are not hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.					
Printed Name John Meyer		Signature "On behalf of" John Meyer For LRM		Month 5	Day 6
				Year 13	
TRANSPORTER	17. Transporter 1 Acknowledgement of Receipt of Materials		Signature		Month
	Printed Name [Signature]		Signature [Signature]		Day
					Year 13
18. Transporter 2 Acknowledgement of Receipt of Materials		Signature		Month	Day
Printed Name		Signature		Year	
19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.					
20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.					
Printed Name [Signature]		Signature [Signature]		Month 5	Day 6
				Year 13	

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Pink- FACILITY USE ONLY

Blue- GENERATOR #2 COPY
Gold- TRANSPORTER #1 COPY

Yellow- GENERATOR #1 COPY



Pine Bluff Landfill
 13809 E. Cherokee Drive
 Ball Ground, GA, 30107
 Ph: (770) 479-2936

Original
 Ticket# 1065402

Customer Name	BIGBENDENV BIG BEND ENVIRONME	Carrier	Newsome Trucking	Newsome Trucking
Ticket Date	05/06/2013	Vehicle#	n242	Volume
Payment Type	Credit Account	Container		
Manual Ticket#		Driver		
Hauling Ticket#		Check#		
Route		Billing #	0102755	
State Waste Code		Gen EPA ID	NR	
Manifest	01791857	Grid		
Destination				
PO				
Profile	4018446A (NON RCRA SIMPACTED SO/LS)			
Generator	111-LAFARGEROAD LAFARGE ROAD MARKING			

	Time	Scale	Operator	Inbound	Gross	
In	05/06/2013 11:13:16	Scale 1	VDANIEL		Tare	59480 lb
Out	05/06/2013 11:13:16		VDANIEL		Net	23540 lb
					Tons	35940 lb
						17.97

Comments

WM WILL NOT BE RESPONSIBLE FOR ACCIDENTS FROM PULLING, PUSHING VEHICLES

Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Cont Soil Sp. W.-T 100	17.97	Tons				FULTON
2	TTE-TRANSPORTATION 100	17.97	Tons				FULTON

Rich Bann

Total Fees
 Total Ticket

404WM
 Driver's Signature





NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST		1. Generator's US EPA ID No. G A D 0 9 9 0 3 5 9 6 0		Manifest Doc No.		2. Page 1 of 08		TRK # 242			
3. Generator's Mailing Address: LAFARGE ROAD MARKING, INC 2675 R N MARTIN ST EAST POINT, GA 30344				Generator's Site Address (if different than mailing):				WMNA 01791857			
4. Generator's Phone 973-625-3916				B State Generator's ID							
5. Transporter 1 Company Name WASTE Management				6. US EPA ID Number		C. State Transporter's ID					
7. Transporter 2 Company Name W-242				8. US EPA ID Number		D. Transporter's Phone					
9. Designated Facility Name and Site Address PINE BLUFF LANDFILL 13809 E CHEROKEE RD BALL GROUND, GA 30107				10. US EPA ID Number		E. State Transporter's ID					
						F. Transporter's Phone					
						G. State Facility ID		028-039D (SL)			
						H. State Facility Phone		770-479-2936			
G E N E R A T O R	11. Description of Waste Materials					12. Containers		13. Total	14. Unit	I. Misc. Comments	
	a. NON-HAZARDOUS NON-RCRA IMPACTED SOILS/DEBRIS NON-DOT REGULATED					No.	Type	Quantity	Wt./Vol.		
	WM Profile # 401844GA							17.97			
	b. WM Profile #										
	c. WM Profile #										
d. WM Profile #											
J. Additional Descriptions for Materials Listed Above					K. Disposal Location						
					Cell			Level			
					Grid						
15. Special Handling Instructions and Additional Information											
Purchase Order #					EMERGENCY CONTACT / PHONE NO.:						
16. GENERATOR'S CERTIFICATE: I hereby certify that the above-described materials are not hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations											
Printed Name Take Meyer				Signature "On behalf of" [Signature] for LRM				Month	Day	Year	
								5	6	13	
T R A N S P O R T E R	17. Transporter 1 Acknowledgement of Receipt of Materials										
	Printed Name Rick Ryan				Signature [Signature]				Month	Day	Year
									5	6	13
18. Transporter 2 Acknowledgement of Receipt of Materials											
Printed Name				Signature				Month	Day	Year	
F A C I L I T Y	19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above										
	20. Facility Owner or Operator Certification of receipt of non-hazardous materials covered by this manifest										
Printed Name [Signature]				Signature [Signature]				Month	Day	Year	
								5	10	13	

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Pink- FACILITY USE ONLY

Blue- GENERATOR #2 COPY
Gold- TRANSPORTER #1 COPY

Yellow- GENERATOR #1 COPY



Pine Bluff Landfill
 13809 E. Cherokee Drive
 Ball Ground, GA, 30107
 Ph: (770) 479-2936

Original
 Ticket# 1065410

Customer Name	BIGBENDENV BIG BEND ENVIRONME	Carrier	Newsome Trucking	Newsome Trucking
Ticket Date	05/06/2013	Vehicle#	N223	Volume
Payment Type	Credit Account	Container		
Manual Ticket#		Driver		
Hauling Ticket#		Check#		
Route		Billing #	0102756	
State Waste Code		Gen EPA ID	NR	
Manifest	01791858	Grid		
Destination				
PG				
Profile	4018446A (NON RCRA SIMPACTED SOILS)			
Generator	111-LAFARGEROAD LAFARGE ROAD MARKING			

	Time	Scale	Operator	Inbound	Gross	
In	05/06/2013 11:31:47	Scale 2	VDANIEL		Tare	54760 1b
Out	05/06/2013 11:31:47		VDANIEL		Net	23140 1b
					Tons	31620 1b
						15.81

Comments

WM WILL NOT BE RESPONSIBLE FOR ACCIDENTS FROM PULLING, PUSHING VEHICLES

Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1		15.81	Tons				FULTON
2		15.81	Tons				FULTON

Total Fees
 Total Ticket

404WM
 Driver's Signature





NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST		1. Generator's US EPA ID No. G A D 0 9 9 0 3 5 9 6 0	Manifest Doc No.	2. Page 1 of 09	TRK # 223		
3. Generator's Mailing Address: LAFARGE ROAD MARKING, INC 2675 R N MARTIN ST EAST POINT, GA 30344		Generator's Site Address (if different than mailing):		WMNA 01791858	B. State Generator's ID		
4. Generator's Phone 973-625-3916		6. US EPA ID Number		C. State Transporter's ID	D. Transporter's Phone		
5. Transporter 1 Company Name WASTE Management		7. Transporter 2 Company Name		E. State Transporter's ID	F. Transporter's Phone		
9. Designated Facility Name and Site Address PINE BLUFF LANDFILL 13809 E CHEROKEE RD BALL GROUND, GA 30107		10. US EPA ID Number		G. State Facility ID 028-039D (SL)	H. State Facility Phone 770-479-2936		
11. Description of Waste Materials: a. NON-HAZARDOUS NON-RCRA IMPACTED SOILS/DEBRIS NON-DOT REGULATED WM Profile # 401844GA		12. Containers		13. Total Quantity	14. Unit Wt./Vol		
		No.		Type		I. Misc Comments	
				1581			
		b. WM Profile #					
		c. WM Profile #					
d. WM Profile #							
15. Special Handling Instructions and Additional Information		J. Additional Descriptions for Materials Listed Above				K. Disposal Location	
		Cell		Level			
		Grid					
Purchase Order #		EMERGENCY CONTACT / PHONE NO.					
16. GENERATOR'S CERTIFICATE I hereby certify that the above-described materials are not hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.							
Printed Name John Meyer		Signature "On behalf of" <i>[Signature]</i> FOR LRM		Month 5	Day 6		
17. Transporter 1 Acknowledgement of Receipt of Materials		Printed Name Paul Hastings		Signature <i>[Signature]</i>	Year 13		
18. Transporter 2 Acknowledgement of Receipt of Materials		Printed Name		Signature	Month 5		
19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.		Printed Name Thaniel		Signature <i>[Signature]</i>	Day 6		
20. Facility Owner or Operator. Certification of receipt of non-hazardous materials covered by this manifest.		Printed Name		Signature	Year 13		

GENERATOR

TRANSPORTER

FACILITY

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Pink- FACILITY USE ONLY

Blue- GENERATOR #2 COPY
Gold- TRANSPORTER #1 COPY

Yellow- GENERATOR #1 COPY



Pine Bluff Landfill
 13809 E. Cherokee Drive
 Ball Ground, GA, 30107
 Ph: (770) 479-2936

Original
 Ticket# 1065411

Customer Name	BIGBENDENV BIG BEND ENVIRONME	Carrier	Newsome Trucking	Newsome Trucking
Ticket Date	05/06/2013	Vehicle#	n216	Volume
Payment Type	Credit Account	Container		
Manual Ticket#		Driver		
Hauling Ticket#		Check#		
Route		Billing #	@102756	
State Waste Code		Gen EPA ID	NR	
Manifest	01791859	Grid		
Destination				
PO				
Profile	4018446A (NON RCRA SIMPACTED SOILS)			
Generator	111-LAFARGEROAD LAFARGE ROAD MARKING			

	Time	Scale	Operator	Inbound	Gross	
In	05/06/2013 11:33:36	Scale 1	VDANIEL			52220 lb
Out	05/06/2013 11:33:36		VDANIEL		Tare	22100 lb
					Net	30120 lb
					Tons	15.06

Comments

WM WILL NOT BE RESPONSIBLE FOR ACCIDENTS FROM PULLING, PUSHING VEHICLES

Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Cont Soil Sp. W.-T 100	15.06	Tons				FULTON
2	TTE-TRANSPORTATION 100	15.06	Tons				FULTON

Total Fees
 Total Ticket

404WM

Driver's Signature





NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST		1. Generator's US EPA ID No. G A D 0 9 9 0 3 5 9 6 0	Manifest Doc No.	2. Page 1 of 010	TRK # N 216
3. Generator's Mailing Address: LAFARGE ROAD MARKING, INC 2675 R N MARTIN ST EAST POINT, GA 30344		Generator's Site Address (if different than mailing):		WMNA	01791859
4. Generator's Phone 973-625-3916		B. State Generator's ID			
5. Transporter 1 Company Name WASTE Management		6. US EPA ID Number		C. State Transporter's ID	
7. Transporter 2 Company Name		8. US EPA ID Number		D. Transporter's Phone	
9. Designated Facility Name and Site Address PINE BLUFF LANDFILL 13809 E CHEROKEE RD BALL GROUND, GA 30107		10. US EPA ID Number		E. State Transporter's ID	
				F. Transporter's Phone	
				G. State Facility ID 028-039D (SL)	
				H. State Facility Phone 770-479-2936	
GENERATOR	11. Description of Waste Materials		12. Containers		13. Total
	a. NON-HAZARDOUS NON-RCRA IMPACTED SOILS/DEBRIS NON-DOT REGULATED		No.	Type	Quantity
	WM Profile # 401844GA				18.06
	b.				
	WM Profile #				
c.					
WM Profile #					
d.					
WM Profile #					
j. Additional Descriptions for Materials Listed Above		K. Disposal Location			
		Cell		Level	
		Grid			
15. Special Handling Instructions and Additional Information					
Purchase Order #		EMERGENCY CONTACT / PHONE NO.			
16. GENERATOR'S CERTIFICATE: I hereby certify that the above-described materials are not hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.					
Printed Name Jake Meyer		Signature "On behalf of" <i>[Signature]</i> For LRM		Month 5	Day 6
				Year 13	
TRANSPORTER	17. Transporter 1 Acknowledgement of Receipt of Materials				
	Printed Name Sush Oshant		Signature <i>[Signature]</i>		Month
					Day
				Year	
18. Transporter 2 Acknowledgement of Receipt of Materials					
Printed Name		Signature		Month	Day
				Year	
FACILITY	19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.				
	20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.				
	Printed Name [Signature]		Signature <i>[Signature]</i>		Month 5
				Year 13	

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY

Blue- GENERATOR #2 COPY

Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY

Gold- TRANSPORTER #1 COPY



Pine Bluff Landfill
 13809 E. Cherokee Drive
 Ball Ground, GA, 30107
 Ph: (770) 479-2936

Original
 Ticket# 1065608

Customer Name	BIGBENDENV BIG BEND ENVIRONME	Carrier	Newsome Trucking	Newsome Trucking
Ticket Date	05/07/2013	Vehicle#	n216	Volume
Payment Type	Credit Account	Container		
Manual Ticket#		Driver		
Hauling Ticket#		Check#		
Route		Billing #	0102756	
State Waste Code		Gen EPA ID	NR	
Manifest	01791860	Grid		
Destination				
PO				
Profile	401844GA (NON RCRA SIMPACTED SOILS)			
Generator	111-LAFARGERDAD LAFARGE ROAD MARKING			

	Time	Scale	Operator	Inbound	Gross	
In	05/07/2013 10:02:00	Scale 2	FJ			51520 lb
Out	05/07/2013 10:02:00		FJ		Tare	22100 lb
					Net	29420 lb
					Tons	14.71

Comments

WM WILL NOT BE RESPONSIBLE FOR ACCIDENTS FROM PULLING, PUSHING VEHICLES

Product	LDX	Qty	UOM	Rate	Fee	Amount	Origin
1	Cont Soil Sp. W.-T 100	14.71	Tons				FULTON
2	TTE-TRANSPORTATION 100	14.71	Tons				FULTON

Total Fees
 Total Ticket

404WM
 Driver's Signature





NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST		1. Generator's US EPA ID No G A D 0 9 9 0 3 5 9 6 0	Manifest Doc No.	2. Page 1 of 11	Tr# 216
3. Generator's Mailing Address: LAFARGE ROAD MARKING, INC 2675 R N MARTIN ST EAST POINT, GA 30344		Generator's Site Address (if different than mailing):		WMNA	01791860
4. Generator's Phone 973-625-3916		B. State Generator's ID			
5. Transporter 1 Company Name WASTE Management Newsome #216		6. US EPA ID Number		C. State Transporter's ID	
7. Transporter 2 Company Name		8. US EPA ID Number		D. Transporter's Phone	
9. Designated Facility Name and Site Address PINE BLUFF LANDFILL 13809 E CHEROKEE RD BALL GROUND, GA 30107		10. US EPA ID Number		E. State Transporter's ID	
				F. Transporter's Phone	
				G. State Facility ID 028-039D (SL)	
				H. State Facility Phone 770-479-2936	
GENERATOR	11. Description of Waste Materials		12. Containers		13. Total Quantity
	a. NON-HAZARDOUS NON-RCRA IMPACTED SOILS/DEBRIS NON-DOT REGULATED		No.	Type	14. Unit Wt./Vol.
	WM Profile # 401844GA				14.71 T
	b. WM Profile #				
	c. WM Profile #				
d. WM Profile #					
I. Additional Descriptions for Materials Listed Above		K. Disposal Location			
		Cell		Level	
		Grid			
15. Special Handling Instructions and Additional Information					
Purchase Order #		EMERGENCY CONTACT / PHONE NO.			
16. GENERATOR'S CERTIFICATE					
I hereby certify that the above-described materials are not hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.					
Printed Name Matt Homes		Signature "On behalf of" <i>Matt Homes for LKM</i>		Month 5	Day 7
				Year 13	
TRANSPORTER	17. Transporter 1 Acknowledgement of Receipt of Materials				
	Printed Name <i>Paul Bryant</i>		Signature <i>Paul Bryant</i>		Month 5
					Day 7
				Year 13	
18. Transporter 2 Acknowledgement of Receipt of Materials					
Printed Name		Signature		Month	Day
				Year	
FACILITY	19. Certificate of Final Treatment/Disposal				
	I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.				
	20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.				
Printed Name Sparks		Signature <i>Sparks</i>		Month 05	Day 7
				Year 13	

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Pink- FACILITY USE ONLY

Blue- GENERATOR #2 COPY
Gold- TRANSPORTER #1 COPY

Yellow- GENERATOR #1 COPY



Pine Bluff Landfill
 13809 E. Cherokee Drive
 Ball Ground, GA, 30107
 Ph: (770) 479-2936

Original
 Ticket# 1067902

Customer Name	BIGBENDENV BIG BEND ENVIRONME	Carrier	Nawsome Trucking	Nawsome Trucking
Ticket Date	05/20/2013	Vehicle#	n242	Voluze
Payment Type	Credit Account	Container		
Manual Ticket#		Driver		
Hauling Ticket#		Check#		
Route		Billing #	0102756	
State Waste Code		Gen EPA ID	NR	
Manifest	01791861	Grid		
Destination				
PO				
Profile	4018446A (NON RCRA SIMPACTED SOILS)			
Generator	111-LAFARGEROAD LAFARGE ROAD MARKING			

	Time	Scale	Operator	Inbound	Gross	
In	05/20/2013 13:56:57	Scale 2	FJ		57640	lb
Out	05/20/2013 13:56:57		FJ		23540	lb
					Net	34100 lb
					Tons	17.05

Comments

WM WILL NOT BE RESPONSIBLE FOR ACCIDENTS FROM PULLING, PUSHING VEHICLES

Product	LDX	Qty	UOM	Rate	Fee	Amount	Origin
1	Cont Soil Sp. W.-T	100	17.05	Tons			FULTON
2	TYE-TRANSPORTATION	100	17.05	Tons			FULTON

Rfan

Total Fees
 Total Ticket

402444
 Driver's Signature





NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. G A D 0 9 9 0 3 5 9 6 0	Manifest Doc No.	2. Page 1 of	TRK# 242
3. Generator's Mailing Address: LAFARGE ROAD MARKING, INC 2675 R N MARTIN ST EAST POINT, GA 30344		Generator's Site Address (if different than mailing):		B. State Generator's ID WMNA 01791861
4. Generator's Phone 973-625-3916				
5. Transporter 1 Company Name WASTE Management <i>N242</i>		6. US EPA ID Number		C. State Transporter's ID
7. Transporter 2 Company Name		8. US EPA ID Number		D. Transporter's Phone
9. Designated Facility Name and Site Address: PINE BLUFF LANDFILL 13809 E CHEROKEE RD BALL GROUND, GA 30107		10. US EPA ID Number		E. State Transporter's ID
				F. Transporter's Phone
				G. State Facility ID 028-039D (SL)
				H. State Facility Phone 770-479-2936
GENERATOR	11. Description of Waste Materials		12. Containers	
	a. NON-HAZARDOUS NON-RCRA IMPACTED SOILS/DEBRIS NON-DOT REGULATED		No.	Type
	WM Profile # 401844GA			
	b.			
	WM Profile #			
	c.			
WM Profile #				
d.				
WM Profile #				
11. Additional Descriptions for Materials Listed Above		12. Disposal Location		
		Cell		Level
		Grid		
15. Special Handling Instructions and Additional Information				
Purchase Order #		EMERGENCY CONTACT / PHONE NO.:		
16. GENERATOR'S CERTIFICATE: I hereby certify that the above-described materials are not hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.				
Printed Name <i>Chad Gilman</i>		Signature "On behalf of" <i>Chad Gilman for LRA</i>		Month Day Year 5 20 13
17. Transporter 1 Acknowledgement of Receipt of Materials		Printed Name <i>Rick Ryan</i>		Signature <i>Rick Ryan</i>
				Month Day Year 5 20 13
18. Transporter 2 Acknowledgement of Receipt of Materials		Printed Name		Signature
				Month Day Year
19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.				
20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest				
Printed Name <i>Frankie</i>		Signature <i>Frankie</i>		Month Day Year 05 20 13

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Pink- FACILITY USE ONLY

Blue- GENERATOR #2 COPY
Gold- TRANSPORTER #1 COPY

Yellow- GENERATOR #1 COPY



Pine Bluff Landfill
 13809 E. Cherokee Drive
 Ball Ground, GA, 30107
 Ph: (770) 479-2936

Original
 Ticket# 1067909

Customer Name	BIGBENDENV BIG BEND ENVIRONME	Carrier	Newsome Trucking	Newsome Trucking
Ticket Date	05/20/2013	Vehicle#	N238	Volume
Payment Type	Credit Account	Container		
Manual Ticket#		Driver		
Hauling Ticket#		Check#		
Route		Billing #	0102756	
State Waste Code		Gen EPA ID	NR	
Manifest	01791862	Grid		
Destination				
PO				
Profile	4018446A (NON RCRA SIMPACTED SOILS)			
Generator	111-LAFARGEROAD LAFARGE ROAD MARKING			

	Time	Scale	Operator	Inbound	Gross	
In	05/20/2013 14:19:48	Scale 2	FJ		Tare	61520 lb
Out	05/20/2013 14:19:48		FJ		Net	22180 lb
					Tons	39340 lb
						19.67

Comments

WM WILL NOT BE RESPONSIBLE FOR ACCIDENTS FROM PULLING, PUSHING VEHICLES

Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1 Cont Soil Sp. M.-T 100		19.67	Tons				FULTON
2 TTE-TRANSPORTATION 100		19.67	Tons				FULTON

Rogers

Total Fees
 Total Ticket

404WM
 Driver's Signature





NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST		1. Generator's US EPA ID No G A D 0 9 9 0 3 5 9 6 0		Manifest Doc No		2. Page 1 of		TRM # 538							
3. Generator's Mailing Address LAFARGE ROAD MARKING, INC 2675 R N MARTIN ST EAST POINT, GA 30344				Generator's Site Address (if different than mailing):				WMNA 01791862		B. State Generator's ID					
4. Generator's Phone 973-625-3916				6. US EPA ID Number				C. State Transporter's ID		D. Transporter's Phone					
5. Transporter 1 Company Name WASTE Management <i>N738</i>				8. US EPA ID Number				E. State Transporter's ID		F. Transporter's Phone					
7. Transporter 2 Company Name				10. US EPA ID Number				G. State Facility ID 028-039D (SL)		H. State Facility Phone 770-479-2936					
9. Designated Facility Name and Site Address PINE BLUFF LANDFILL 13809 E CHEROKEE RD BALL GROUND, GA 30107				11. Description of Waste Materials a. NON-HAZARDOUS NON-RCRA IMPACTED SOILS/DEBRIS NON-DOT REGULATED WM Profile # 401844GA				12. Containers No. Type		13. Total Quantity 19.67 T		14. Unit Wt./Vol.			
b. WM Profile #				c. WM Profile #				d. WM Profile #		1. Misc Comments					
1. Additional Descriptions for Materials Listed Above				K. Disposal Location Cell _____ Level _____ Grid _____				15. Special Handling Instructions and Additional Information		Purchase Order # _____ EMERGENCY CONTACT / PHONE NO. _____					
16. GENERATOR'S CERTIFICATE: I hereby certify that the above-described materials are not hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.				Printed Name Chad Gillean				Signature "on behalf of" <i>Chad Gillean for LRM</i>				Month Day Year 5-20-13			
17. Transporter 1 Acknowledgement of Receipt of Materials				Printed Name Roger Lee				Signature <i>Roger Lee</i>				Month Day Year 05-20-13			
18. Transporter 2 Acknowledgement of Receipt of Materials				Printed Name				Signature				Month Day Year			
19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.				20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.				Printed Name <i>[Signature]</i>				Signature <i>[Signature]</i>			
								Month Day Year 05 20 13							

GENERATOR

TRANSPORTER

FACILITY

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Pink- FACILITY USE ONLY

Blue- GENERATOR #2 COPY
Gold- TRANSPORTER #1 COPY

Yellow- GENERATOR #1 COPY



Pine Bluff Landfill
 13809 E. Cherokee Drive
 Ball Ground, GA, 30107
 Ph: (770) 479-2936

Original
 Ticket# 1070564

Customer Name	BIGBENDENV BIG BEND ENVIRONME	Carrier	Newsome Trucking	Newsome Trucking
Ticket Date	06/04/2013	Vehicle#	n246	Volume
Payment Type	Credit Account	Container		
Manual Ticket#		Driver		
Hauling Ticket#		Check#		
Route		Billing #	0102756	
State Waste Code		Gen EPA ID	NR	
Manifest	01791865	Grid		
Destination				
PO				
Profile	4018448A (NON RCRA SIMPACTED SOILS)			
Generator	111-LAFARGEROAD LAFARGE ROAD MARKING			

	Time	Scale	Operator	Inbound	Gross	
In	06/04/2013 16:00:42	Scale 2	sy			55420 lb
Out	06/04/2013 16:00:51	Scale 1	sy		Tare	23300 lb*
			* Manual Weight		Net	32120 lb
					Tons	16.06

Comments

WM WILL NOT BE RESPONSIBLE FOR ACCIDENTS FROM PULLING, PUSHING VEHICLES

Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Cont Soil Sp. W.-T 100	16.06	Tons				CHEROKEE
2	TTE-TRANSPORTATION 100	16.06	Tons				CHEROKEE

Total Fees
 Total Ticket

408WM Driver's Signature





NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST		1. Generator's US EPA ID No. G A D 0 9 9 0 3 5 9 6 0		Manifest Doc No.		2. Page 1 of 16		tr# N246					
3. Generator's Mailing Address: LAFARGE ROAD MARKING, INC 2675 R N MARTIN ST EAST POINT, GA 30344				Generator's Site Address (if different than mailing):				WMNA		01791865			
4. Generator's Phone 973-625-3916								B. State Generator's ID					
5. Transporter 1 Company Name WASTE Management				6. US EPA ID Number				C. State Transporter's ID					
7. Transporter 2 Company Name				8. US EPA ID Number				D. Transporter's Phone					
9. Designated Facility Name and Site Address PINE BLUFF LANDFILL 13809 E CHEROKEE RD BALL GROUND, GA 30107				10. US EPA ID Number				E. State Transporter's ID					
								F. Transporter's Phone					
								G. State Facility ID 028-039D (SL)					
								H. State Facility Phone 770-479-2936					
GENERATOR	11. Description of Waste Materials					12. Containers		13. Total Quantity		14. Unit Wt./Vol.		I. Misc Comments	
	a. NON-HAZARDOUS NON-RCRA IMPACTED SOILS/DEBRIS NON-DOT REGULATED							16 QTS					
	WM Profile # 401844GA												
	b. WM Profile #												
	c. WM Profile #												
d. WM Profile #													
j. Additional Descriptions for Materials Listed Above					K. Disposal Location								
					Cell				Level				
					Grid								
15. Special Handling Instructions and Additional Information													
Purchase Order #						EMERGENCY CONTACT / PHONE NO.							
16. GENERATOR'S CERTIFICATE													
I hereby certify that the above-described materials are not hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.													
Printed Name Matt Hames				Signature "On behalf of" Matt Hames for LRM				Month 6		Day 4		Year 17	
17. Transporter 1 Acknowledgement of Receipt of Materials													
Printed Name Doug Neighbors				Signature Doug Neighbors				Month 6		Day 4		Year 17	
18. Transporter 2 Acknowledgement of Receipt of Materials													
Printed Name				Signature				Month		Day		Year	
19. Certificate of Final Treatment/Disposal													
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.													
20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.													
Printed Name J. Parson				Signature J. Parson				Month 6		Day 4		Year 17	

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Pink- FACILITY USE ONLY

Blue- GENERATOR #2 COPY
Gold- TRANSPORTER #1 COPY

Yellow- GENERATOR #1 COPY



Pine Bluff Landfill
 13809 E. Cherokee Drive
 Ball Ground, GA, 30107
 Ph: (770) 479-2936

Original
 Ticket# 1070566

Customer Name	BIGBENDENV BIG BEND ENVIRONME	Carrier	Newsome Trucking	Newsome Trucking
Ticket Date	06/04/2013	Vehicle#	n242	Volume
Payment Type	Credit Account	Container		
Manual Ticket#		Driver		
Hauling Ticket#		Check#		
Route		Billing #	0102756	
State Waste Code		Gen EPA ID	NR	
Manifest	01791864	Grid		
Destination				
PG				
Profile	4018446A (NON RCRA SIMPACTED SOILS)			
Generator	111-LAFARGERDAD LAFARGE ROAD MARKING			

	Time	Scale	Operator	Inbound	Gross	
In	06/04/2013 16:03:42	Scale 2	sy			58740 lb
Out	06/04/2013 16:03:42		sy		Tare	23540 lb
					Net	35200 lb
					Tons	17.60

Comments

WM WILL NOT BE RESPONSIBLE FOR ACCIDENTS FROM PULLING, PUSHING VEHICLES

Product	LD%	Qty	UCM	Rate	Fee	Amount	Origin
1	Cont Soil Sp. W.-T	100	17.60	Tons			CHEROKEE
2	TTE-TRANSPORTATION	100	17.60	Tons			CHEROKEE

R. G. ...

Total Fees
 Total Ticket

404WM Driver's Signature





NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST		1. Generator's US EPA ID No. G A D 0 9 9 0 3 5 9 6 0		Manifest Doc No.		2. Page 1 of 15		Tr N242		
3. Generator's Mailing Address: LAFARGE ROAD MARKING, INC 2675 R N MARTIN ST EAST POINT, GA 30344				Generator's Site Address (if different than mailing):				WMNA 01791864		
4. Generator's Phone 973-625-3916								B. State Generator's ID		
5. Transporter 1 Company Name WASTE Management				6. US EPA ID Number				C. State Transporter's ID		
7. Transporter 2 Company Name				8. US EPA ID Number				D. Transporter's Phone		
9. Designated Facility Name and Site Address PINE BLUFF LANDFILL 13809 E CHEROKEE RD BALL GROUND, GA 30107				10. US EPA ID Number				E. State Transporter's ID		
								F. Transporter's Phone		
								G. State Facility ID 028-039D (SL)		
								H. State Facility Phone 770-479-2936		
GENERATOR	11. Description of Waste Materials					12. Containers		13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
	a. NON-HAZARDOUS NON-RCRA IMPACTED SOILS/DEBRIS NON-DOT REGULATED					No	Type			
	WM Profile # 401844GA									
	b. WM Profile #									
	c. WM Profile #									
d. WM Profile #										
J. Additional Descriptions for Materials Listed Above					K. Disposal Location					
					Cell			Level		
					Grid					
15. Special Handling Instructions and Additional Information										
Purchase Order #					EMERGENCY CONTACT / PHONE NO.					
16. GENERATOR'S CERTIFICATE: I hereby certify that the above-described materials are not hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations										
Printed Name Matt Hames				Signature "On behalf of" Matt Hames for LRM				Month 6	Day 4	Year 13
17. Transporter 1 Acknowledgement of Receipt of Materials										
Printed Name Rick Ryan				Signature Rick Ryan				Month 6	Day 4	Year 13
18. Transporter 2 Acknowledgement of Receipt of Materials										
Printed Name				Signature				Month	Day	Year
19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.										
20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.										
Printed Name S. Yarrow				Signature S. Yarrow				Month 6	Day 4	Year 13

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Pink- FACILITY USE ONLY

Blue- GENERATOR #2 COPY
Gold- TRANSPORTER #1 COPY

Yellow- GENERATOR #1 COPY



Pine Bluff Landfill,
 13809 E. Cherokee Drive
 Ball Ground, GA, 30107
 Ph: (770) 479-2936

Original
 Ticket# 1070570

Customer Name	BIGBENDENV BIG BEND ENVIRONME	Carrier	Newsome Trucking	Newsome Trucking
Ticket Date	06/04/2013	Vehicle#	n216	Volume
Payment Type	Credit Account	Container		
Manual Ticket#		Driver		
Hauling Ticket#		Check#		
Route		Billing #	0102756	
State Waste Code		Gen EPA ID	NR	
Manifest	01791866	Grid		
Destination				
PG				
Profile	401844GA (NON RCRA SIMPACTED SOILS)			
Generator	111-LAFARGERDAD LAFARGE ROAD MARKING			

	Time	Scale	Operator	Inbound	Gross	
In	06/04/2013 15:12:44	Scale 1	sy		Tare	52720 lb
Out	06/04/2013 18:12:44		sy		Net	22100 lb
					Tons	30620 lb
						15.31

Comments

WM WILL NOT BE RESPONSIBLE FOR ACCIDENTS FROM PULLING, PUSHING VEHICLES

Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1 Cont Soil Sp. W.-T 100		15.31	Tons				CHEROKEE
2 TTE-TRANSPORTATION 100		15.31	Tons				CHEROKEE

Total Fees
 Total Ticket

404WM Driver's Signature





NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST		Generator's US EPA ID No. G A D 0 9 9 0 3 5 9 6 0	Manifest Doc No.	2. Page 1 of	TRK # 216		
3. Generator's Mailing Address: LAFARGE ROAD MARKING, INC 2675 R N MARTIN ST EAST POINT, GA 30344		Generator's Site Address (if different than mailing):		WMNA	01791866		
4. Generator's Phone 973-625-3916				B. State Generator's ID			
5. Transporter 1 Company Name WASTE Management		6. US EPA ID Number		C. State Transporter's ID			
7. Transporter 2 Company Name		8. US EPA ID Number		D. Transporter's Phone			
9. Designated Facility Name and Site Address PINE BLUFF LANDFILL 13809 E CHEROKEE RD BALL GROUND, GA 30107		10. US EPA ID Number		E. State Transporter's ID			
				F. Transporter's Phone			
				G. State Facility ID		028-039D (SL)	
				H. State Facility Phone		770-479-2936	
GENERATOR	11. Description of Waste Materials		12. Containers		13. Total Quantity	14. Unit Wt./Vol.	1. Misc Comments
	a. NON-HAZARDOUS NON-RCRA IMPACTED SOILS/DEBRIS NON-DOT REGULATED		No.	Type	15.31	T	
	WM Profile # 401844GA						
	b. WM Profile #						
	c. WM Profile #						
	d. WM Profile #						
J. Additional Descriptions for Materials Listed Above			K. Disposal Location				
			Cell		Level		
			Grid				
15. Special Handling Instructions and Additional Information							
Purchase Order #				EMERGENCY CONTACT / PHONE NO.			
16. GENERATOR'S CERTIFICATE: I hereby certify that the above-described materials are not hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.							
Printed Name <i>Luke Meyer</i>		Signature "On behalf of" <i>LRM</i>			Month	Day	Year
17. Transporter 1 Acknowledgement of Receipt of Materials		Signature <i>[Signature]</i>			Month	Day	Year
Printed Name <i>Josh Orment</i>		Signature <i>[Signature]</i>			6	4	13
18. Transporter 2 Acknowledgement of Receipt of Materials		Signature			Month	Day	Year
Printed Name		Signature			Month	Day	Year
19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.		20. Facility Owner or Operator Certification of receipt of non-hazardous materials covered by this manifest.			Month	Day	Year
Printed Name <i>[Signature]</i>		Signature <i>[Signature]</i>			6	4	13

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY

Blue- GENERATOR #2 COPY

Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY

Gold- TRANSPORTER #1 COPY



Pine Bluff Landfill,
 13809 E. Cherokee Drive
 Ball Ground, GA, 30107
 Ph: (770) 479-2936

Original
 Ticket# 1070572

Customer Name	BIGBENDENV BIG BEND ENVIRONME	Carrier	Newsome Trucking	Newsome Trucking
Ticket Date	06/04/2013	Vehicle#	N229	Volume
Payment Type	Credit Account	Container		
Manual Ticket#		Driver		
Hauling Ticket#		Check#		
Route		Billing #	0102756	
State Waste Code		Gen EPA ID	NR	
Manifest	01791867	Grid		
Destination				
PO				
Profile	4018446A (NON RCRA SIMPACTED SOILS)			
Generator	111-LAFARGEPOAD LAFARGE ROAD MARKING			

	Time	Scale	Operator	Inbound	Gross	
In	06/04/2013 16:24:27	Scale 2	sy		Tare	56760 1b
Out	06/04/2013 16:24:27		sy		Net	22980 1b
					Tons	33780 1b
						16.89

Comments

WM WILL NOT BE RESPONSIBLE FOR ACCIDENTS FROM PULLING, PUSHING VEHICLES

Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1 Cont Soil Sp. W.-T	100	16.89	Tons				CHEROKEE
2 TTE-TRANSPORTATION	100	16.89	Tons				CHEROKEE

Total Fees
 Total Ticket

404WM Driver's Signature





NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST		1. Generator's US EPA ID No. G A D 0 9 9 0 3 5 9 6 0	Manifest Doc No.	2. Page 1 of TRK# 229			
3. Generator's Mailing Address LAFARGE ROAD MARKING, INC 2675 R N MARTIN ST EAST POINT, GA 30344		Generator's Site Address (if different than mailing):		WMNA 01791867 B. State Generator's ID			
4. Generator's Phone 973-625-3916		6. US EPA ID Number		C. State Transporter's ID			
5. Transporter 1 Company Name WASTE Management		7. Transporter 2 Company Name		D. Transporter's Phone			
9. Designated Facility Name and Site Address PINE BLUFF LANDFILL 13809 E CHEROKEE RD BALL GROUND, GA 30107		8. US EPA ID Number		E. State Transporter's ID			
		10. US EPA ID Number		F. Transporter's Phone			
				G. State Facility ID 028-039D (SL)			
				H. State Facility Phone 770-479-2936			
GENERATOR	11. Description of Waste Materials		12. Containers	13. Total Quantity	14. Unit Wt./Vol	1. Misc. Comments	
	a. NON-HAZARDOUS NON-RCRA IMPACTED SOILS/DEBRIS NON-DOT REGULATED		No.	Type			
	WM Profile # 401844GA				16.81 T		
	b. WM Profile #						
	c. WM Profile #						
d. WM Profile #							
J. Additional Descriptions for Materials Listed Above		K. Disposal Location					
		Cell		Level			
		Grid					
15. Special Handling Instructions and Additional Information							
Purchase Order #		EMERGENCY CONTACT / PHONE NO :					
16. GENERATOR'S CERTIFICATE							
I hereby certify that the above-described materials are not hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.							
Printed Name John Meyer		Signature "On behalf of" LRM			Month 6	Day 4	Year 13
TRANSPORTER	17. Transporter 1 Acknowledgement of Receipt of Materials		Signature		Month	Day	Year
	Printed Name DAVID LUCINA				10	4	13
	18. Transporter 2 Acknowledgement of Receipt of Materials		Signature				
Printed Name							
FACILITY	19. Certificate of Final Treatment/Disposal						
	I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above						
20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.							
Printed Name S. [Signature]		Signature			Month 6	Day 4	Year 13

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Pink- FACILITY USE ONLY

Blue- GENERATOR #2 COPY
Gold- TRANSPORTER #1 COPY

Yellow- GENERATOR #1 COPY



Pine Bluff Landfill
 13809 E. Cherokee Drive
 Ball Ground, GA, 30107
 Ph: (770) 479-2936

Original
 Ticket# 1070766

Customer Name	BIGBENDENV BIG BEND ENVIRONNE	Carrier	Newsome Trucking	Newsome Trucking
Ticket Date	06/05/2013	Vehicle#	n242	Volume
Payment Type	Credit Account	Container		
Manual Ticket#		Driver		
Hauling Ticket#		Check#		
Route		Billing #	0102756	
State Waste Code		Gen EPA ID	NR	
Manifest	01791869	Grid		
Destination				
PO				
Profile	4018446A (NON RCRA SIMPACTED SOILS)			
Generator	111-LAFARGE ROAD LAFARGE ROAD MARKING			

	Time	Scale	Operator	Inbound	Gross	
In	06/05/2013 13:22:03	Scale 2	sy		Tare	57150 lb
Out	06/05/2013 13:22:03		sy		Net	23540 lb
					Tons	33620 lb
						16.81

Comments

WM WILL NOT BE RESPONSIBLE FOR ACCIDENTS FROM PULLING, PUSHING VEHICLES

Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1 Cont Soil Sp. W.-T	100	16.81	Tons				CHEROKEE
2 TTE-TRANSPORTATION	100	16.81	Tons				CHEROKEE

Total Fees
 Total Ticket

404WM
 Driver's Signature





NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST		1. Generator's US EPA ID No. G A D 0 9 9 0 3 5 9 6 0	Manifest Doc No.	2. Page 1 of 242			
3. Generator's Mailing Address: LAFARGE ROAD MARKING, INC 2675 R N MARTIN ST EAST POINT, GA 30344		Generator's Site Address (If different than mailing):		WMNA 01791869			
4. Generator's Phone 973-625-3916		B. State Generator's ID					
5. Transporter 1 Company Name WASTE Management		6. US EPA ID Number		C. State Transporter's ID			
7. Transporter 2 Company Name		8. US EPA ID Number		D. Transporter's Phone			
9. Designated Facility Name and Site Address PINE BLUFF LANDFILL 13809 E CHEROKEE RD BALL GROUND, GA 30107		10. US EPA ID Number		E. State Transporter's ID			
				F. Transporter's Phone			
				G. State Facility ID 028-039D (SL)			
				H. State Facility Phone 770-479-2936			
GENERATOR	11. Description of Waste Materials		12. Containers	13. Total Quantity	14. Unit Wt./Vol	I. Misc. Comments	
	a. NON-HAZARDOUS NON-RCRA IMPACTED SOILS/DEBRIS NON-DOT REGULATED		No.	Type			
	WM Profile # 401844GA				16.8	T	
	b.						
	WM Profile #						
	c.						
WM Profile #							
d.							
WM Profile #							
J. Additional Descriptions for Materials Listed Above		K. Disposal Location					
		Cell		Level			
		Grid					
15. Special Handling Instructions and Additional Information							
Purchase Order #		EMERGENCY CONTACT / PHONE NO.					
16. GENERATOR'S CERTIFICATE: I hereby certify that the above-described materials are not hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.							
Printed Name Jack Meyer		Signature "On behalf of" "LRM"			Month 6	Day 5	Year 13
17. Transporter 1 Acknowledgement of Receipt of Materials							
Printed Name X Rick Ryan		Signature Rick Ryan			Month 6	Day 5	Year 13
18. Transporter 2 Acknowledgement of Receipt of Materials							
Printed Name		Signature			Month	Day	Year
19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.							
20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.							
Printed Name Stevan...		Signature			Month 6	Day 5	Year 13

TRANSPORTER

FACILITY

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Pink- FACILITY USE ONLY

Blue- GENERATOR #2 COPY
Gold- TRANSPORTER #1 COPY

Yellow- GENERATOR #1 COPY



Pine Bluff Landfill
 13809 E. Cherokee Drive
 Ball Ground, GA, 30107
 Ph: (770) 479-2936

Original
 Ticket# 1070767

Customer Name	BIGBENDENV BIG BEND ENVIRONME	Carrier	Newsome Trucking	Newsome Trucking
Ticket Date	06/05/2013	Vehicle#	n216	Volume
Payment Type	Credit Account	Container		
Manual Ticket#		Driver		
Hauling Ticket#		Check#		
Route		Billing #	0102756	
State Waste Code		Gen EPA ID	NR	
Manifest	01791868	Grid		
Destination				
PO				
Profile	4018440A (NON RCRA SIMPACTED SOILS)			
Generator	111-LAFARGEROAD LAFARGE ROAD MARKING			

	Time	Scale	Operator	Inbound	Gross	
In	06/05/2013 13:23:44	Scale 1	sy		Tare	54580 1b
Out	06/05/2013 13:23:44		sy		Net	22100 1b
Comments					Tons	32480 1b
						16.24

WM WILL NOT BE RESPONSIBLE FOR ACCIDENTS FROM PULLING, PUSHING VEHICLES

Product	LD%	Qty	UGM	Rate	Fee	Amount	Origin
1 Cont Soil Sp. N.-T	100	16.24	Tons				CHEROKEE
2 TTE-TRANSPORTATION	100	16.24	Tons				CHEROKEE

Total Fees
 Total Ticket

404WM
 Driver's Signature





NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST		1. Generator's US EPA ID No. G A D 0 9 9 0 3 5 9 6 0		Manifest Doc No.		2. Page 1 of TRK# 216			
3. Generator's Mailing Address: LAFARGE ROAD MARKING, INC 2675 R N MARTIN ST EAST POINT, GA 30344			Generator's Site Address (if different than mailing):			WMNA 01791868			
4. Generator's Phone 973-625-3916			B. State Generator's ID						
5. Transporter 1 Company Name WASTE Management			6. US EPA ID Number		C. State Transporter's ID				
7. Transporter 2 Company Name			8. US EPA ID Number		D. Transporter's Phone				
9. Designated Facility Name and Site Address PINE BLUFF LANDFILL 13809 E CHEROKEE RD BALL GROUND, GA 30107			10. US EPA ID Number		E. State Transporter's ID				
					F. Transporter's Phone				
					G. State Facility ID 028-039D (SL)				
					H. State Facility Phone 770-479-2936				
GENERATOR	11. Description of Waste Materials				12. Containers		13. Total Quantity	14. Unit Wt./Vol.	1. Misc Comments
	a. NON-HAZARDOUS NON-RCRA IMPACTED SOILS/DEBRIS NON-DOT REGULATED				No.	Type			
	WM Profile # 401844GA								
	b.								
	WM Profile #								
c.									
WM Profile #									
d.									
WM Profile #									
J. Additional Descriptions for Materials Listed Above				K Disposal Location					
				Cell			Level		
				Grid					
15. Special Handling Instructions and Additional Information.									
Purchase Order #				EMERGENCY CONTACT / PHONE NO.:					
16. GENERATOR'S CERTIFICATE: I hereby certify that the above-described materials are not hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.									
Printed Name Lake Meyer				Signature "on behalf of" "CRM"			Month 6	Day 5	Year 15
TRANSPORTER	17. Transporter 1 Acknowledgement of Receipt of Materials								
	Printed Name Josh Bryant			Signature <i>Josh Bryant</i>			Month 6	Day 5	Year 15
	18. Transporter 2 Acknowledgement of Receipt of Materials								
Printed Name			Signature			Month	Day	Year	
FACILITY	19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.								
	20. Facility Owner or Operator Certification of receipt of non-hazardous materials covered by this manifest.								
Printed Name S. Stankovic				Signature <i>S. Stankovic</i>			Month 6	Day 5	Year 15

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY

Blue- GENERATOR #2 COPY

Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY

Gold- TRANSPORTER #1 COPY



Pine Bluff Landfill
 13809 E. Cherokee Drive
 Ball Ground, GA, 30107
 Ph: (770) 479-2936

Original
 Ticket# 1070793

Customer Name	BIGBENDENV BIG BEND ENVIRONME	Carrier	Newsome Trucking	Newsome Trucking
Ticket Date	06/05/2013	Vehicle#	N238	Volume
Payment Type	Credit Account	Container		
Manual Ticket#		Driver		
Hauling Ticket#		Check#		
Route		Billing #	0102756	
State Waste Code		Gen EPA ID	NR	
Manifest	01791870	Grid		
Destination				
PQ				
Profile	401844GA (NON RCRA SIMPACTED SOILS)			
Generator	111-LAFARGERDAD LAFARGE ROAD MARKING			

	Time	Scale	Operator	Inbound	Gross	
In	06/05/2013 14:47:30	Scale J	FJ		Tare	56560 lb
Out	06/05/2013 14:47:30		FJ		Net	22180 lb
					Tons	34380 lb
						17.19

Comments

WM WILL NOT BE RESPONSIBLE FOR ACCIDENTS FROM PULLING, PUSHING VEHICLES

Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1 Cont Soil Sp. W.-T	100	17.19	Tons				FULTON
2 TIE-TRANSPORTATION	100	17.19	Tons				FULTON

Total Fees
 Total Ticket

404WM
 Driver's Signature





NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST		1. Generator's US EPA ID No. G A D 0 9 9 0 3 5 9 6 0	Manifest Doc No.	2. Page 1 of	TRK# N238		
3. Generator's Mailing Address: LAFARGE ROAD MARKING, INC 2675 R N MARTIN ST EAST POINT, GA 30344		Generator's Site Address (if different than mailing):		WMNA	01791870		
4. Generator's Phone 973-625-3916		B. State Generator's ID					
5. Transporter 1 Company Name WASTE Management <i>Newtime</i>		6. US EPA ID Number		C. State Transporter's ID			
7. Transporter 2 Company Name		8. US EPA ID Number		D. Transporter's Phone			
9. Designated Facility Name and Site Address PINE BLUFF LANDFILL 13809 E CHEROKEE RD BALL GROUND, GA 30107		10. US EPA ID Number		E. State Transporter's ID			
				F. Transporter's Phone			
				G. State Facility ID		028-039D (SL)	
				H. State Facility Phone		770-479-2936	
GENERATOR	11. Description of Waste Materials		12. Containers		13. Total Quantity	14. Unit Wt./Vol.	1. Misc Comments
	a. NON-HAZARDOUS NON-RCRA IMPACTED SOILS/DEBRIS NON-DOT REGULATED		No.	Type			
	WM Profile # 401844GA				17,197		
	b. WM Profile #						
	c. WM Profile #						
d. WM Profile #							
J. Additional Descriptions for Materials Listed Above		K. Disposal Location					
		Cell		Level			
		Grid					
15. Special Handling Instructions and Additional Information							
Purchase Order #				EMERGENCY CONTACT / PHONE NO.			
16. GENERATOR'S CERTIFICATE: I hereby certify that the above-described materials are not hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.							
Printed Name Mike Meyer		Signature "On behalf of" <i>[Signature]</i> "LRM"		Month 6	Day 5	Year 13	
17. Transporter 1 Acknowledgement of Receipt of Materials		Printed Name <i>[Signature]</i>		Signature <i>[Signature]</i>		Month 6	Day 5
18. Transporter 2 Acknowledgement of Receipt of Materials		Printed Name		Signature		Month	Day
19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.							
20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.		Printed Name Spurlins		Signature <i>[Signature]</i>		Month 06	Day 05
						Year 13	

GENERATOR

TRANSPORTER

FACILITY

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Pink- FACILITY USE ONLY

Blue- GENERATOR #2 COPY
Gold- TRANSPORTER #1 COPY

Yellow- GENERATOR #1 COPY



Pine Bluff Landfill
 13809 E. Cherokee Drive
 Ball Ground, GA, 30107
 Ph: (770) 479-2936

Original
 Ticket# 1070910

Customer Name	BIGBENDENV BIG BEND ENVIRONME	Carrier	Newsome Trucking	Newsome Trucking
Ticket Date	06/05/2013	Vehicle#	n242	Volume
Payment Type	Credit Account	Container		
Manual Ticket#		Driver		
Hauling Ticket#		Check#		
Route		Billing #	0102756	
State Waste Code		Gen EPA ID	NR	
Manifest	01791871	Grid		
Destination				
PO				
Profile	401844GA (NON RCRA SIMPACTED SOILS)			
Generator	111-LAFARGERDAD LAFARGE ROAD MARKING			

	Time	Scale	Operator	Inbound	Gross	
In	06/05/2013 16:25:20	Scale 1	FJ		Tare	54980 1b
Out	06/05/2013 16:25:20		FJ		Net	23540 1b
					Tons	31440 1b
						15.72

Comments

WM WILL NOT BE RESPONSIBLE FOR ACCIDENTS FROM PULLING, PUSHING VEHICLES

Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1		Cont Soil Sp. N.-T 100	15.72	Tons			FULTON
2		TTE-TRANSPORTATION 100	15.72	Tons			FULTON

Total Fees
 Total Ticket

404WM
 Driver's Signature





NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST		1. Generator's US EPA ID No. G A D 0 9 9 0 3 5 9 6 0	Manifest Doc No.	2. Page 1 of TRK# 242				
3. Generator's Mailing Address: LAFARGE ROAD MARKING, INC 2675 R N MARTIN ST EAST POINT, GA 30344		Generator's Site Address (if different than mailing):		B. State Generator's ID WMNA 01791871				
4. Generator's Phone 973-625-3916								
5. Transporter 1 Company Name WASTE Management <i>Nausome</i>		6. US EPA ID Number		C. State Transporter's ID				
7. Transporter 2 Company Name <i>HN242</i>		8. US EPA ID Number		D. Transporter's Phone				
9. Designated Facility Name and Site Address PINE BLUFF LANDFILL 13809 E CHEROKEE RD BALL GROUND, GA 30107		10. US EPA ID Number		E. State Transporter's ID				
				F. Transporter's Phone				
				G. State Facility ID 028-039D (SL)				
				H. State Facility Phone 770-479-2936				
GENERATOR	11. Description of Waste Materials		12. Containers	13. Total Quantity	14. Unit Wt./Vol	I. Misc Comments		
	a. NON-HAZARDOUS NON-RCRA IMPACTED SOILS/DEBRIS NON-DOT REGULATED		No.	Type				
	WM Profile # 401844GA				15,727			
	b. WM Profile #							
	c. WM Profile #							
	d. WM Profile #							
J. Additional Descriptions for Materials Listed Above			K. Disposal Location					
			Cell		Level			
			Grid					
15. Special Handling Instructions and Additional Information								
Purchase Order #			EMERGENCY CONTACT / PHONE NO.					
16. GENERATOR'S CERTIFICATE: I hereby certify that the above-described materials are not hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.								
Printed Name Jake Meyer			Signature On behalf of <i>[Signature]</i> "LRM"		Month 6	Day 05	Year 13	
TRANSPORTER	17. Transporter 1 Acknowledgement of Receipt of Materials			Signature <i>[Signature]</i>		Month 6	Day 05	Year 13
	Printed Name Rick Ryan			Signature <i>[Signature]</i>		Month 6	Day 05	Year 13
	18. Transporter 2 Acknowledgement of Receipt of Materials			Signature		Month	Day	Year
Printed Name			Signature		Month	Day	Year	
FACILITY	19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.							
	20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.							
Printed Name [Signature]			Signature <i>[Signature]</i>		Month 06	Day 05	Year 13	

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Pink- FACILITY USE ONLY

Blue- GENERATOR #2 COPY
Gold- TRANSPORTER #1 COPY

Yellow- GENERATOR #1 COPY



Pine Bluff Landfill
 13809 E. Cherokee Drive
 Ball Ground, GA, 30107
 Ph: (770) 479-2936

Original
 Ticket# 1070855

Customer Name	BIGBENDENV BIG BEND ENVIRONME	Carrier	Newsome Trucking	Newsome Trucking
Ticket Date	06/06/2013	Vehicle#	n216	Volume
Payment Type	Credit Account	Container		
Manual Ticket#		Driver		
Hauling Ticket#		Check#		
Route		Billing #	0102756	
State Waste Code		Gen EPA ID	NR	
Manifest	1861784	Grid		
Destination				
PO				
Profile	4018440A (NON RCRA SINTACTED SOILS)			
Generator	111-LAFARGERDAD LAFARGE ROAD MARKING			

	Time	Scale	Operator	Inbound	Gross	
In	06/06/2013 06:07:38	Scale 1	VDANIEL		Tare	54340 lb
Out	06/06/2013 06:07:38		VDANIEL		Net	22100 lb
					Tons	32240 lb
						16.12

Comments

WM WILL NOT BE RESPONSIBLE FOR ACCIDENTS FROM PULLING, PUSHING VEHICLES

Product	LIX	Qty	UOM	Rate	Fee	Amount	Origin
1 Cont Soil Sp. N. -T 100		16.12	Tons				FULTON
2 TTE-TRANSPORTATION 100		16.12	Tons				FULTON

Total Fees
 Total Ticket





NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST		1. Generator's US EPA ID No. G A D 0 9 9 0 3 5 9 6 0	Manifest Doc No.	2. Page 1 of TRK # 216	
3. Generator's Mailing Address: LAFARGE ROAD MARKING, INC 2675 R N MARTIN ST EAST POINT, GA 30344		Generator's Site Address (if different than mailing):		B. State Generator's ID WMNA 1861784	
4. Generator's Phone 973-625-3916		6. US EPA ID Number		C. State Transporter's ID	
5. Transporter 1 Company Name WASTE Management Newsome		7. Transporter 2 Company Name		D. Transporter's Phone	
9. Designated Facility Name and Site Address PINE BLUFF LANDFILL 13809 E CHEROKEE RD BALL GROUND, GA 30107		8. US EPA ID Number		E. State Transporter's ID	
		10. US EPA ID Number		F. Transporter's Phone	
				G. State Facility ID 028-039D (SL)	
				H. State Facility Phone 770-479-2936	
GENERATOR	11. Description of Waste Materials		12. Containers	13. Total Quantity	
	a. NON-HAZARDOUS NON-RCRA IMPACTED SOILS/DEBRIS NON-DOT REGULATED		No.	Type	
	WM Profile # 401844GA				14. Unit Wt./Vol.
	b.				I. Misc. Comments
	WM Profile #				
	c.				
WM Profile #					
d.					
WM Profile #					
J. Additional Descriptions for Materials Listed Above		K. Disposal Location			
		Cell	Level		
		Grid			
15. Special Handling Instructions and Additional Information					
Purchase Order #		EMERGENCY CONTACT / PHONE NO.:			
16. GENERATOR'S CERTIFICATE: I hereby certify that the above-described materials are not hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.					
Printed Name Jake Meyer		Signature "On behalf of" "LRM"		Month Day Year 6 5 13	
17. Transporter 1 Acknowledgement of Receipt of Materials		Printed Name Josh Bryant		Signature <i>[Signature]</i>	
		Month Day Year 6 5 13			
18. Transporter 2 Acknowledgement of Receipt of Materials		Printed Name		Signature	
		Month Day Year			
19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.					
20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest					
Printed Name [Signature]		Signature <i>[Signature]</i>		Month Day Year 6 6 13	

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY

Blue- GENERATOR #2 COPY

Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY

Gold- TRANSPORTER #1 COPY



Pine Bluff Landfill
 13809 E. Cherokee Drive
 Ball Ground, GA, 30107
 Ph: (770) 479-2936

Original
 Ticket# 1071273

Customer Name	BIGBENDENV BIG BEND ENVIRONME	Carrier	Newsome Trucking	Newsome Trucking
Ticket Date	06/07/2013	Vehicle#	n216	Volume
Payment Type	Credit Account	Container		
Manual Ticket#		Driver		
Hauling Ticket#		Check#		
Route		Billing #	0102756	
State Waste Code		Gen EPA ID	NR	
Manifest	1861783	Grid		
Destination				
PO				
Profile	4018446A (NON RCRA SIMPACTED SOILS)			
Generator	111-LAFARGEROAD LAFARGE ROAD MARKING			

	Time	Scale	Operator	Inbound	Gross	
In	06/07/2013 09:23:24	Scale 2	vdaniel			51700 lb
Out	06/07/2013 09:23:24		vdaniel		Tare	22100 lb
					Net	29600 lb
					Tons	14.80

Comments

WM WILL NOT BE RESPONSIBLE FOR ACCIDENTS FROM PULLING, PUSHING VEHICLES

Product	LD%	Qty	UCM	Rate	Fee	Amount	Origin
1 Cont Soil Sp. W.-T	100	14.80	Tons				FULTON
2 TTE-TRANSPORTATION	100	14.80	Tons				FULTON

Total Fees
 Total Ticket

404WM

Driver's Signature





NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST		1. Generator's US EPA ID No. G A D 0 9 9 0 3 5 9 6 0	Manifest Doc No.		2. Page 1 of TRK # N216	
3. Generator's Mailing Address: LAFARGE ROAD MARKING, INC 2675 R N MARTIN ST EAST POINT, GA 30344		Generator's Site Address (if different than mailing):		WMNA	1861783	
4. Generator's Phone 973-625-3916		B. State Generator's ID				
5. Transporter 1 Company Name WASTE Management		6. US EPA ID Number		C. State Transporter's ID		
7. Transporter 2 Company Name		8. US EPA ID Number		D. Transporter's Phone		
9. Designated Facility Name and Site Address PINE BLUFF LANDFILL 13809 E CHEROKEE RD BALL GROUND, GA 30107		10. US EPA ID Number		E. State Transporter's ID		
				F. Transporter's Phone		
				G. State Facility ID 028-039D (SL)		
				H. State Facility Phone 770-479-2936		
GENERATOR	11. Description of Waste Materials		12. Containers		13. Total Quantity	
	a. NON-HAZARDOUS NON-RCRA IMPACTED SOILS/DEBRIS NON-DOT REGULATED		No.	Type		
	WM Profile # 401844GA				1480	
	b. WM Profile #					
	c. WM Profile #					
d. WM Profile #						
J. Additional Descriptions for Materials Listed Above		K. Disposal Location				
		Cell		Level		
		Grid				
15. Special Handling Instructions and Additional Information						
Purchase Order #		EMERGENCY CONTACT / PHONE NO.:				
16. GENERATOR'S CERTIFICATE: I hereby certify that the above-described materials are not hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.						
Printed Name <i>John Mayer</i>		Signature "On behalf of" <i>[Signature]</i> "LRM"		Month 10	Day 7	
				Year 13		
TRANSPORTER	17. Transporter 1 Acknowledgement of Receipt of Materials		Signature <i>[Signature]</i>		Month 10	
	Printed Name <i>John Okoyant</i>				Day 7	
					Year 13	
18. Transporter 2 Acknowledgement of Receipt of Materials		Signature		Month	Day	
Printed Name				Year		
19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.						
FACILITY	20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.		Signature <i>[Signature]</i>		Month 10	
	Printed Name <i>Leonel</i>				Day 7	
				Year 13		

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY

Blue- GENERATOR #2 COPY

Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY

Gold- TRANSPORTER #1 COPY



Pine Bluff Landfill
 13809 E. Cherokee Drive
 Ball Ground, GA, 30107
 Ph: (770) 479-2936

Original
 Ticket# 1071345

Customer Name	BIGBENDENV BIG BEND ENVIRONME	Carrier	Newsome Trucking	Newsome Trucking
Ticket Date	06/07/2013	Vehicle#	n216	Volume
Payment Type	Credit Account	Container		
Manual Ticket#		Driver		
Hauling Ticket#		Check#		
Route		Billing #	0102756	
State Waste Code		Gen EPA ID	NR	
Manifest	1061755	Grid		
Destination				
PO				
Profile	4018446A (NON RCRA SIMPACTED SOILS)			
Generator	111-LAFARGEROAD LAFARGE ROAD MARKING			

	Time	Scale	Operator	Inbound	Gross	
In	06/07/2013 13:12:32	Scale 2	sy		Tare	56300 lb
Out	06/07/2013 13:12:32		sy		Net	22100 lb
					Tons	34200 lb
						17.10

Comments

WM WILL NOT BE RESPONSIBLE FOR ACCIDENTS FROM PULLING, PUSHING VEHICLES

Product	LD%	Qty	UCM	Rate	Fee	Amount	Origin
1 Cont Soil Sp. W.-T 100		17.10	Tons				CHEROKEE
2 TTE-TRANSPORTATION 100		17.10	Tons				CHEROKEE

Total Fees
 Total Ticket

404WM
 Driver's Signature





NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST		1. Generator's US EPA ID No. G A D 0 9 9 0 3 5 9 6 0		Manifest Doc No.		2. Page 1 of		Tr # N 216				
3. Generator's Mailing Address: LAFARGE ROAD MARKING, INC 2675 R N MARTIN ST EAST POINT, GA 30344			Generator's Site Address (if different than mailing):			WMNA		1861755				
4. Generator's Phone 973-625-3916						B. State Generator's ID						
5. Transporter 1 Company Name WASTE Management			6. US EPA ID Number			C. State Transporter's ID						
7. Transporter 2 Company Name			8. US EPA ID Number			D. Transporter's Phone						
9. Designated Facility Name and Site Address PINE BLUFF LANDFILL 13809 E CHEROKEE RD BALL GROUND, GA 30107			10. US EPA ID Number			E. State Transporter's ID						
						F. Transporter's Phone						
						G. State Facility ID		028-039D (SL)				
						H. State Facility Phone		770-479-2936				
GENERATOR	11. Description of Waste Materials					12. Containers		13. Total Quantity	14. Unit Wt./Vol	1. Misc. Comments		
	a. NON-HAZARDOUS NON-RCRA IMPACTED SOILS/DEBRIS NON-DOT REGULATED WM Profile # 401844GA							17.10T				
	b. WM Profile #											
	c. WM Profile #											
	d. WM Profile #											
J. Additional Descriptions for Materials Listed Above					K. Disposal Location							
					Cell		Level					
					Grid							
15. Special Handling Instructions and Additional Information												
Purchase Order #					EMERGENCY CONTACT / PHONE NO.:							
16. GENERATOR'S CERTIFICATE: I hereby certify that the above-described materials are not hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.												
Printed Name Matt Hames			Signature "On behalf of" Matt Hames "LRM"			Month 6	Day 7	Year 13				
TRANSPORTER	17. Transporter 1 Acknowledgement of Receipt of Materials					Printed Name Josh Bryant	Signature [Signature]			Month 6	Day 7	Year 13
	18. Transporter 2 Acknowledgement of Receipt of Materials					Printed Name	Signature			Month	Day	Year
FACILITY	19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.											
	20. Facility Owner or Operator Certification of receipt of non-hazardous materials covered by this manifest											
Printed Name [Signature]			Signature [Signature]			Month 6	Day 7	Year 13				

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY

Blue- GENERATOR #2 COPY

Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY

Gold- TRANSPORTER #1 COPY



Pine Bluff Landfill
 13809 E. Cherokee Drive
 Ball Ground, GA, 30107
 Ph: (770) 479-2936

Original
 Ticket# 1072565

Customer Name BIGBENDEN/ BIG BEND ENVIRONME Carrier Newsome Trucking Newsome Trucking
 Ticket Date 06/17/2013 Vehicle# 247 Volume
 Payment Type Credit Account Container
 Manual Ticket# Driver
 Hauling Ticket# Check#
 Route Billing # 0102756
 State Waste Code Gen EPA ID NR
 Manifest 1061700 Grid
 Destination
 PO
 Profile 101840A (NON ROCK IMPACTED SOILS)
 Generator 111 LAFARGE ROAD LAFARGE ROAD MARKING

Time	Scale	Operator	Inbound	Gross	57520 lb
In 06/17/2013 13:02:19	Scale 1	sy		Tare	23560 lb
Out 06/17/2013 13:02:19		sy		Net	33960 lb
				Tons	16.98

Comments

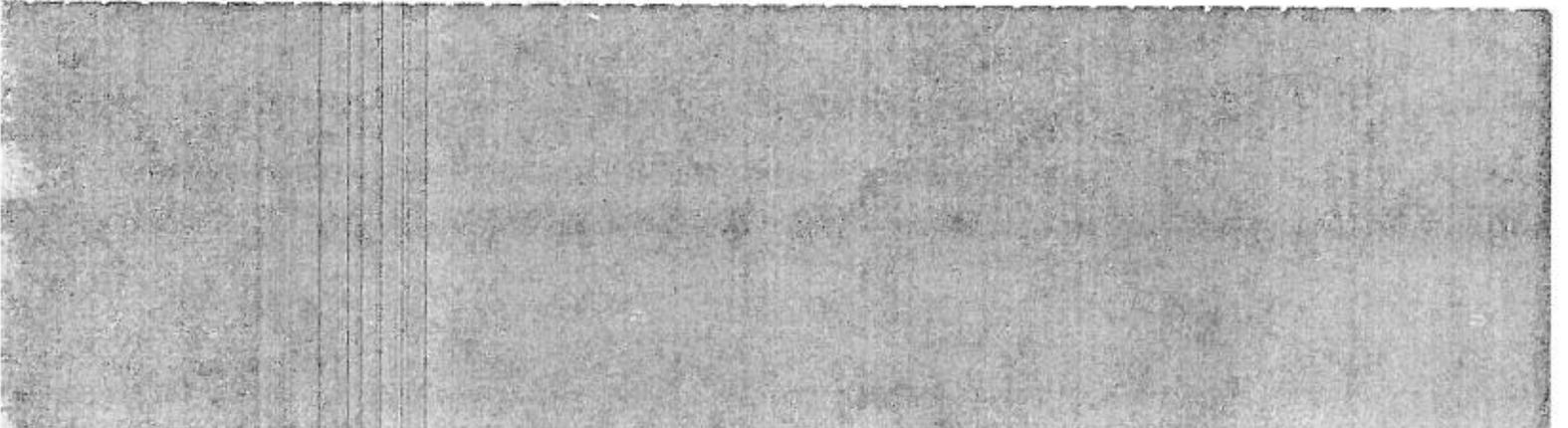
WM WILL NOT BE RESPONSIBLE FOR ACCIDENTS FROM PULLING, PUSHING VEHICLES

Product	LO%	Qty	UOM	Rate	Fee	Amount	Origin
1 Cont Soil Sp. W.-T	100	16.98	Tons				CHEROKEE
2 TTE-TRANSPORTATION	100	16.98	Tons				CHEROKEE

Joe C. [Signature]

Total Fees
 Total Ticket

404WM
 Driver's Signature





NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST		1. Generator's US EPA ID No. G A D 0 9 9 0 3 5 9 6 0	Manifest Doc No.	2. Page 1 of TRK # 216			
3. Generator's Mailing Address: LAFARGE ROAD MARKING, INC 2675 R N MARTIN ST EAST POINT, GA 30344		Generator's Site Address (if different than mailing):		B. State Generator's ID WMNA 1861782			
4. Generator's Phone 973-625-3916	5. Transporter 1 Company Name WASTE Management		6. US EPA ID Number	C. State Transporter's ID			
7. Transporter 2 Company Name		8. US EPA ID Number		D. Transporter's Phone			
9. Designated Facility Name and Site Address PINE BLUFF LANDFILL 13809 E CHEROKEE RD BALL GROUND, GA 30107		10. US EPA ID Number		E. State Transporter's ID			
				F. Transporter's Phone			
				G. State Facility ID 028-039D (SL)			
				H. State Facility Phone 770-479-2936			
GENERATOR	11. Description of Waste Materials		12. Containers	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments	
	a. NON-HAZARDOUS NON-RCRA IMPACTED SOILS/DEBRIS NON-DOT REGULATED		No.	Type	16.98 T		
	WM Profile # 401844GA						
	b. WM Profile #						
	c. WM Profile #						
d. WM Profile #							
J. Additional Descriptions for Materials Listed Above		K. Disposal Location					
		Cell		Level			
		Grid					
15. Special Handling Instructions and Additional Information							
Purchase Order #			EMERGENCY CONTACT / PHONE NO.:				
16. GENERATOR'S CERTIFICATE: I hereby certify that the above-described materials are not hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.							
Printed Name Steve Meyer		Signature "On behalf of" "LRM"			Month 6	Day 17	Year 13
17. Transporter 1 Acknowledgement of Receipt of Materials							
Printed Name Dash Bryant		Signature			Month 6	Day 17	Year 13
18. Transporter 2 Acknowledgement of Receipt of Materials							
Printed Name		Signature			Month	Day	Year
19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.							
20. Facility Owner or Operator: Certification of receipt of non-hazardous material covered by this manifest.							
Printed Name S. Parnham		Signature			Month 6	Day 17	Year 13

GENERATOR

TRANSPORTER

FACILITY

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Pink- FACILITY USE ONLY

Blue- GENERATOR #2 COPY
Gold- TRANSPORTER #1 COPY

Yellow- GENERATOR #1 COPY



1. Name of the
 2. Address
 3. City
 4. State
 5. Zip
 6. Telephone
 7. Fax
 8. E-mail
 9. Other

10. Name of the
 11. Address
 12. City
 13. State
 14. Zip
 15. Telephone
 16. Fax
 17. E-mail
 18. Other

19. Name of the
 20. Address
 21. City
 22. State
 23. Zip
 24. Telephone
 25. Fax
 26. E-mail
 27. Other

28. Name of the
 29. Address
 30. City
 31. State
 32. Zip
 33. Telephone
 34. Fax
 35. E-mail
 36. Other



37. Name of the
 38. Address
 39. City
 40. State
 41. Zip
 42. Telephone
 43. Fax
 44. E-mail
 45. Other

46. Name of the
 47. Address
 48. City
 49. State
 50. Zip
 51. Telephone
 52. Fax
 53. E-mail
 54. Other

55. Name of the
 56. Address
 57. City
 58. State
 59. Zip
 60. Telephone
 61. Fax
 62. E-mail
 63. Other





NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST		1. Generator's US EPA ID No. G A D 0 9 9 0 3 5 9 6 0	Manifest Doc No.	2. Page 1 of	TRUCK# 238 zone 5			
3. Generator's Mailing Address: LAFARGE ROAD MARKING, INC 2675 R N MARTIN ST EAST POINT, GA 30344		Generator's Site Address (if different than mailing):		WMNA	01791872			
4. Generator's Phone 973-625-3916				B. State Generator's ID				
5. Transporter 1 Company Name WASTE Management		6. US EPA ID Number		C. State Transporter's ID				
7. Transporter 2 Company Name		8. US EPA ID Number		D. Transporter's Phone				
9. Designated Facility Name and Site Address PINE BLUFF LANDFILL 13809 E CHEROKEE RD BALL GROUND, GA 30107		10. US EPA ID Number		E. State Transporter's ID				
				F. Transporter's Phone				
				G. State Facility ID 028-039D (SL)				
				H. State Facility Phone 770-479-2936				
GENERATOR	11. Description of Waste Materials		12. Containers		13. Total Quantity	14. Unit Wt./Vol.	1. Misc. Comments	
	a. NON-HAZARDOUS NON-RCRA IMPACTED SOILS/DEBRIS NON-DOT REGULATED		No.	Type	20.87			
	WM Profile # 401844GA							
	b. WM Profile #							
	c. WM Profile #							
d. WM Profile #								
J. Additional Descriptions for Materials Listed Above		K. Disposal Location						
		Cell		Level				
		Grid						
15. Special Handling Instructions and Additional Information								
Purchase Order #				EMERGENCY CONTACT / PHONE NO.:				
16. GENERATOR'S CERTIFICATE: I hereby certify that the above-described materials are not hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.								
Printed Name Jake Meyer		Signature "On behalf of" [Signature] "LRM"			Month 6	Day 19	Year 13	
TRANSPORTER	17. Transporter 1 Acknowledgement of Receipt of Materials		Signature [Signature]			Month 06	Day 19	Year 13
	Printed Name Roger Ice		Signature [Signature]			Month 06	Day 19	Year 13
FACTORY	18. Transporter 2 Acknowledgement of Receipt of Materials		Signature			Month	Day	Year
	Printed Name		Signature			Month	Day	Year
19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.								
20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.								
Printed Name [Signature]		Signature [Signature]			Month 6	Day 19	Year 13	

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY

Blue- GENERATOR #2 COPY

Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY

Gold- TRANSPORTER #1 COPY



NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST		1. Generator's US EPA ID No. G A D 0 9 9 0 3 5 9 6 0		Manifest Doc No.		2. Page 1 of		TRK# Zone 5			
3. Generator's Mailing Address: LAFARGE ROAD MARKING, INC 2675 R N MARTIN ST EAST POINT, GA 30344			Generator's Site Address (if different than mailing):			WMNA		01791873			
4. Generator's Phone 973-625-3916						B. State Generator's ID					
5. Transporter 1 Company Name WASTE Management			6. US EPA ID Number			C. State Transporter's ID					
						D. Transporter's Phone					
7. Transporter 2 Company Name			8. US EPA ID Number			E. State Transporter's ID					
						F. Transporter's Phone					
9. Designated Facility Name and Site Address PINE BLUFF LANDFILL 13809 E CHEROKEE RD BALL GROUND, GA 30107			10. US EPA ID Number			G. State Facility ID		028-039D (SL)			
						H. State Facility Phone		770-479-2936			
GENERATOR	11. Description of Waste Materials				12. Containers		13. Total Quantity	14. Unit Wt./Vol.	1. Misc. Comments		
	a. NON-HAZARDOUS NON-RCRA IMPACTED SOILS/DEBRIS NON-DOT REGULATED				No.	Type	19.73T				
	WM Profile # 401844GA										
	b. WM Profile #										
	c. WM Profile #										
d. WM Profile #											
J. Additional Descriptions for Materials Listed Above				K. Disposal Location							
				Cell		Level					
				Grid							
15. Special Handling Instructions and Additional Information											
Purchase Order #				EMERGENCY CONTACT / PHONE NO.:							
16. GENERATOR'S CERTIFICATE: I hereby certify that the above-described materials are not hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.											
Printed Name Jake Meyer				Signature "On behalf of" "LRM"				Month	Day	Year	
								6	19	13	
TRANSPORTER	17. Transporter 1 Acknowledgement of Receipt of Materials				Signature				Month	Day	Year
	Printed Name Roger Ice				Roger Ice				06	19	13
	18. Transporter 2 Acknowledgement of Receipt of Materials				Signature				Month	Day	Year
19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.											
20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.											
Printed Name S. Makonnen				Signature S. Makonnen				Month	Day	Year	
								6	19	13	

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY

Blue- GENERATOR #2 COPY

Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY

Gold- TRANSPORTER #1 COPY



White Bluff Landfill
 15809 E. Cherokee Drive
 Bell Ground, GA, 30107
 Ph: (770) 479-2936

Original
 Ticket# 1073085

Customer Name **BIG BEND ENVIRONMENTAL** Carrier **Newsome Trucking** Newsome Trucking
 Ticket Date **06/20/2013** Vehicle# **14238** Volume
 Payment Type **Credit Account** Container
 Manual Ticket# Driver
 Hauling Ticket# Check#
 Route Billing # **0102756**
 State Waste Code Gen EPA ID **NR**
 Manifest **01791874** Grid
 Destination
 PU
 Profile **018404 (NON RCRA IMPACTED SOILS)**
 Generator **111-LAFARDE ROAD LAFARDE ROAD MARKING**

Time	Scale	Operator	Inbound	Gross	64040 lb
In 06/20/2013 11:40:04	Scale 2	DANIEL		Tare	22180 lb
Out 06/20/2013 11:44:04		DANIEL		Net	41860 lb
				Tons	20.93

Comments:

WM WILL NOT BE RESPONSIBLE FOR ACCIDENTS FROM PULLING, PUSHING VEHICLES

Product	LR%	Qty	UOM	Rate	Fee	Amount	Origin
1 Cont Soil Sp. W. T	100	20.93	Tons				FULTON
2 TTE-TRANSPORTATION	100	20.93	Tons				FULTON

[Handwritten Signature]

Total Fees
 Total Ticket

404 WM Driver's Signature





NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST		1. Generator's US EPA ID No. G A D 0 9 9 0 3 5 9 6 0	Manifest Doc No.	2. Page 1 of	TRK # 238 Zone - 5		
3. Generator's Mailing Address: LAFARGE ROAD MARKING, INC 2675 R N MARTIN ST EAST POINT, GA 30344		Generator's Site Address (if different than mailing):		WMNA	01791874		
4. Generator's Phone 973-625-3916				B. State Generator's ID			
5. Transporter 1 Company Name WASTE Management		6. US EPA ID Number		C. State Transporter's ID			
7. Transporter 2 Company Name		8. US EPA ID Number		D. Transporter's Phone			
9. Designated Facility Name and Site Address PINE BLUFF LANDFILL 13809 E CHEROKEE RD BALL GROUND, GA 30107		10. US EPA ID Number		E. State Transporter's ID			
				F. Transporter's Phone			
				G. State Facility ID 028-039D (SL)			
				H. State Facility Phone 770-479-2936			
GENERATOR	11. Description of Waste Materials		12. Containers		13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
	a. NON-HAZARDOUS NON-RCRA IMPACTED SOILS/DEBRIS NON-DOT REGULATED		No.	Type	20.93		
	WM Profile # 401844GA						
	b.						
	WM Profile #						
	c.						
WM Profile #							
d.							
WM Profile #							
J. Additional Descriptions for Materials Listed Above			K. Disposal Location				
			Cell		Level		
			Grid				
15. Special Handling Instructions and Additional Information							
Purchase Order #				EMERGENCY CONTACT / PHONE NO.:			
16. GENERATOR'S CERTIFICATE: I hereby certify that the above-described materials are not hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.							
Printed Name Mike Mayer		Signature "On behalf of" Mike Mayer "LRM"			Month 6	Day 20	Year 13
17. Transporter 1 Acknowledgement of Receipt of Materials							
Printed Name Roger Lee		Signature Roger Lee			Month 06	Day 20	Year 13
18. Transporter 2 Acknowledgement of Receipt of Materials							
Printed Name		Signature			Month	Day	Year
19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.							
20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.							
Printed Name Manuel		Signature Manuel			Month 6	Day 20	Year 13

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY

Blue- GENERATOR #2 COPY

Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY

Gold- TRANSPORTER #1 COPY



Pine Bluff Landfill
 13809 E. Cherokee Drive
 Ball Ground, GA, 30107
 Ph: (770) 479-2936

Original
 Ticket# 1074164

Customer Name BISBENDENY BIG BEND ENVIRONME Carrier Newsome Trucking Newsome Trucking
 Ticket Date 06/27/2013 Vehicle# N238 Volume
 Payment Type Credit Account Container
 Manual Ticket# Driver
 Hauling Ticket# Check#
 Route Billing # 0102756
 State Waste Code Gen EPA ID NR
 Manifest 1051756 Grid
 Destination
 PO
 Profile 01444CH (NON RCRA COMPACTED SOILS)
 Generator 111-LAFARGE ROAD LAFARGE ROAD MARKING

	Time	Scale	Operator	Inbound	Gross	
In	06/27/2013 10:11:48	Scale 2	VDANIEL		56780	11
Out	06/27/2013 10:11:48		VDANIEL		Tare	22180 11
					Net	44600 11
					Tons	22.30

Comments

WM WILL NOT BE RESPONSIBLE FOR ACCIDENTS FROM PULLING, PUSHING VEHICLES

Product	LDX	Qty	UOM	Rate	Fee	Amount	Origin
Cont Soil Sp. M.	100	22.30	Tons				FULTON
2 TTE-TRANSPORTATION	100	22.30	Tons				FULTON

[Handwritten Signature]

Total Fees
 Total Ticket

Driver's Signature
 404WM





NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST		1. Generator's US EPA ID No. G A D 0 9 9 0 3 5 9 6 0		Manifest Doc No.		2. Page 1 of		TRK# 238 <i>TRK#</i>			
3. Generator's Mailing Address: LAFARGE ROAD MARKING, INC 2675 R N MARTIN ST EAST POINT, GA 30344				Generator's Site Address (if different than mailing):				WMNA		1861756	
4. Generator's Phone 973-625-3916								B. State Generator's ID			
5. Transporter 1 Company Name WASTE Management				6. US EPA ID Number				C. State Transporter's ID			
7. Transporter 2 Company Name				8. US EPA ID Number				D. Transporter's Phone			
9. Designated Facility Name and Site Address PINE BLUFF LANDFILL 13809 E CHEROKEE RD BALL GROUND, GA 30107				10. US EPA ID Number				E. State Transporter's ID			
								F. Transporter's Phone			
								G. State Facility ID 028-039D (SL)			
								H. State Facility Phone 770-479-2936			
GENERATOR	11. Description of Waste Materials					12. Containers		13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments	
	a. NON-HAZARDOUS NON-RCRA IMPACTED SOILS/DEBRIS NON-DOT REGULATED							22.30			
	WM Profile # 401844GA										
	b. WM Profile #										
	c. WM Profile #										
d. WM Profile #											
J. Additional Descriptions for Materials Listed Above					K. Disposal Location						
					Cell				Level		
					Grid						
15. Special Handling Instructions and Additional Information											
Purchase Order #				EMERGENCY CONTACT / PHONE NO.:							
16. GENERATOR'S CERTIFICATE: I hereby certify that the above-described materials are not hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.											
Printed Name <i>Mike Meyer</i>				Signature "in behalf of" <i>[Signature]</i> "LRM"				Month 6	Day 27	Year 13	
TRANSPORTER	17. Transporter 1 Acknowledgement of Receipt of Materials										
	Printed Name <i>Roger Lee</i>				Signature <i>[Signature]</i>				Month 6	Day 27	Year 13
TRANSPORTER	18. Transporter 2 Acknowledgement of Receipt of Materials										
	Printed Name				Signature				Month	Day	Year
FACILITY	19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.										
	20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.										
Printed Name <i>Michael</i>				Signature <i>[Signature]</i>				Month 6	Day 27	Year 13	

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY

Pink- FACILITY USE ONLY

Blue- GENERATOR #2 COPY

Gold- TRANSPORTER #1 COPY

Yellow- GENERATOR #1 COPY



Pine Bluff Landfill
 13009 E. Cherokee Drive
 Ball Ground, GA, 30107
 Ph: (770) 479-2936

Original
 Ticket# 1074170

Customer Name ~~BIG BEND ENVIRONME~~ Carrier Newsome Trucking Newsome Trucking
 Ticket Date 06/27/2013 Vehicle# n242 Volume
 Payment Type Credit Account Container
 Manual Ticket# Driver
 Hauling Ticket# Check#
 Route Billing # 0102756
 State Waste Code Gen EPA ID NR
 Manifest 1861757 Grid
 Destination
 PO
 Profile 40184404 (NON RCRA IMPACTED SOILS)
 Generator 111-LAFARGE ROAD LAFARGE ROAD MARKING

	Time	Scale	Operator	Inbound	Gross	64620 lb
In	06/27/2013 10:23:05	Scale 1	VDANIEL		Tare	23540 lb
Out	06/27/2013 10:23:05		VDANIEL		Net	41000 lb
					Tons	20.54

Comments

WM WILL NOT BE RESPONSIBLE FOR ACCIDENTS FROM PULLING, PUSHING VEHICLES

Product	LDX	Qty	UOM	Rate	Fee	Amount	Origin
1 Cont Soil Sp. W. T	100	20.54	Tons				FULTON
2 TTE TRANSPORTATION	100	20.54	Tons				FULTON

R. Bran

Total Fees
 Total Ticket





NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST		1. Generator's US EPA ID No. G A D 0 9 9 0 3 5 9 6 0	Manifest Doc No.	2. Page 1 of TRK # 242			
3. Generator's Mailing Address: LAFARGE ROAD MARKING, INC 2675 R N MARTIN ST EAST POINT, GA 30344		Generator's Site Address (if different than mailing):		WMNA 1861757			
4. Generator's Phone 973-625-3916		B. State Generator's ID					
5. Transporter 1 Company Name WASTE Management		6. US EPA ID Number		C. State Transporter's ID			
7. Transporter 2 Company Name		8. US EPA ID Number		D. Transporter's Phone			
9. Designated Facility Name and Site Address PINE BLUFF LANDFILL 13809 E CHEROKEE RD BALL GROUND, GA 30107		10. US EPA ID Number		E. State Transporter's ID			
				F. Transporter's Phone			
				G. State Facility ID 028-039D (SL)			
				H. State Facility Phone 770-479-2936			
GENERATOR	11. Description of Waste Materials		12. Containers	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments	
	a. NON-HAZARDOUS NON-RCRA IMPACTED SOILS/DEBRIS NON-DOT REGULATED		No.	Type			
	WM Profile # 401844GA				20.54		
	b. WM Profile #						
	c. WM Profile #						
d. WM Profile #							
J. Additional Descriptions for Materials Listed Above		K. Disposal Location					
		Cell		Level			
		Grid					
15. Special Handling Instructions and Additional Information							
Purchase Order #		EMERGENCY CONTACT / PHONE NO.:					
16. GENERATOR'S CERTIFICATE: I hereby certify that the above-described materials are not hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.							
Printed Name John Meyer		Signature <i>[Signature]</i> "LRM"			Month 6	Day 27	Year 13
TRANSPORTER	17. Transporter 1 Acknowledgement of Receipt of Materials		Signature <i>[Signature]</i>		Month 6	Day 27	Year 13
	Printed Name Rick Ryan N-242		Signature <i>[Signature]</i>		Month 6	Day 27	Year 13
	18. Transporter 2 Acknowledgement of Receipt of Materials		Signature		Month	Day	Year
FACILITY	19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.						
	20. Facility Owner or Operator Certification of receipt of non-hazardous materials covered by this manifest.						
	Printed Name Manuel		Signature <i>[Signature]</i>			Month 6	Day 27

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY

Blue- GENERATOR #2 COPY

Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY

Gold- TRANSPORTER #1 COPY



Pine Bluff Landfill
 13809 E. Cherokee Drive
 Ball Ground, GA, 30107
 Ph: (770) 479-2936

Original
 Ticket# 1074036

Customer Name **BIG BEND ENVIRONMENTAL** Carrier **Newsome Trucking** Newsome Trucking
 Ticket Date **06/27/2013** Vehicle# **N238** Volume
 Payment Type **Credit Account** Container
 Manual Ticket#
 Hauling Ticket#
 Route
 State Waste Code
 Manifest **01861758** Billing # **0102756**
 Destination
 PO
 Profile **4018446A (NON RCRA COMPACTED SOILS)** Gen EPA ID **NR**
 Generator **111-LAFARGE ROAD LAFARGE ROAD MARKING** Grid

Time	Scale	Operator	Inbound	Gross	
In 06/27/2013 14:18:54	Scale 2	ey		47900	1
Out 06/27/2013 14:18:54		ey		22180	1
Comments				Net	25720
				Tone	12.8

WM WILL NOT BE RESPONSIBLE FOR ACCIDENTS FROM PULLING, PUSHING VEHICLES

Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1 Cont Soil Sp. D.	100	12.86	Tons				
2 TTE-TRANSPORTATION	100	12.86	Tons				CHEROKEE
							CHEROKEE

[Handwritten Signature]

Total Fees
 Total Ticket

404 WM Ver's Signature





NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST

1. Generator's US EPA ID No.
G A D 0 9 9 0 3 5 9 6 0

Manifest Doc No.

2. Page 1 of

TRR # 238

3. Generator's Mailing Address:
LAFARGE ROAD MARKING, INC
2675 R N MARTIN ST
EAST POINT, GA 30344

Generator's Site Address (if different than mailing):

WMNA

1861758

B. State Generator's ID

4. Generator's Phone 873-625-3916

5. Transporter 1 Company Name
WASTE Management

6. US EPA ID Number

C. State Transporter's ID

D. Transporter's Phone

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
PINE BLUFF LANDFILL
13809 E CHEROKEE RD
BALL GROUND, GA 30107

10. US EPA ID Number

G. State Facility ID 028-039D (SL)

H. State Facility Phone 770-479-2936

11. Description of Waste Materials

a. NON-HAZARDOUS NON-RCRA IMPACTED SOILS/DEBRIS NON-DOT REGULATED

WM Profile # 401844GA

12. Containers

No. Type

13. Total Quantity

14. Unit Wt./Vol.

1. Misc. Comments

12.80T

b. WM Profile #

c. WM Profile #

d. WM Profile #

J. Additional Descriptions for Materials Listed Above

K. Disposal Location

Cell

Grid

Level

15. Special Handling Instructions and Additional Information

Purchase Order #

EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above described materials are not hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name

John Meyer

Signature "On behalf of"

[Signature] "LRM"

Month Day Year
6 27 13

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name

Kagan Ice

Signature

[Signature]

Month Day Year
6 27 13

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name

Signature

Month Day Year

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name

[Signature]

Signature

[Signature]

Month Day Year
6-27-13

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY

Pink- FACILITY USE ONLY

Blue- GENERATOR #2 COPY

Gold- TRANSPORTER #1 COPY

Yellow- GENERATOR #1 COPY

GENERATOR

TRANSPORTER

FACILITY



Pine Bluff Landfill
 3809 E. Cherokee Drive
 Ball Ground, GA, 30107
 Ph: (770) 479-2936

Original
 Ticket# 1074244

Customer Name ~~BIG BEND ENVIRONME~~ Carrier Newsome Trucking Newsome Trucking
 Ticket Date 06/27/2013 Vehicle# n242 Volume
 Payment Type Credit Account Container
 Manual Ticket# Driver
 Hauling Ticket# Check#
 Route Billing # 0102756
 State Waste Code Gen EPA ID NR
 Manifest 1861759 Grid
 Destination
 PO
 Profile 40184450 (NON RCRA IMPACTED SOILS)
 Generator 1110 AF AIRROAD LAFARGE ROAD MARKING

Time	Scale	Operator	Inbound	Gross	54440 lb
In 06/27/2013 14:55:04	Scale 1	sy		Tare	23540 lb
Out 06/27/2013 14:55:04		sy		Net	30900 lb
				Tons	15.45

Comments

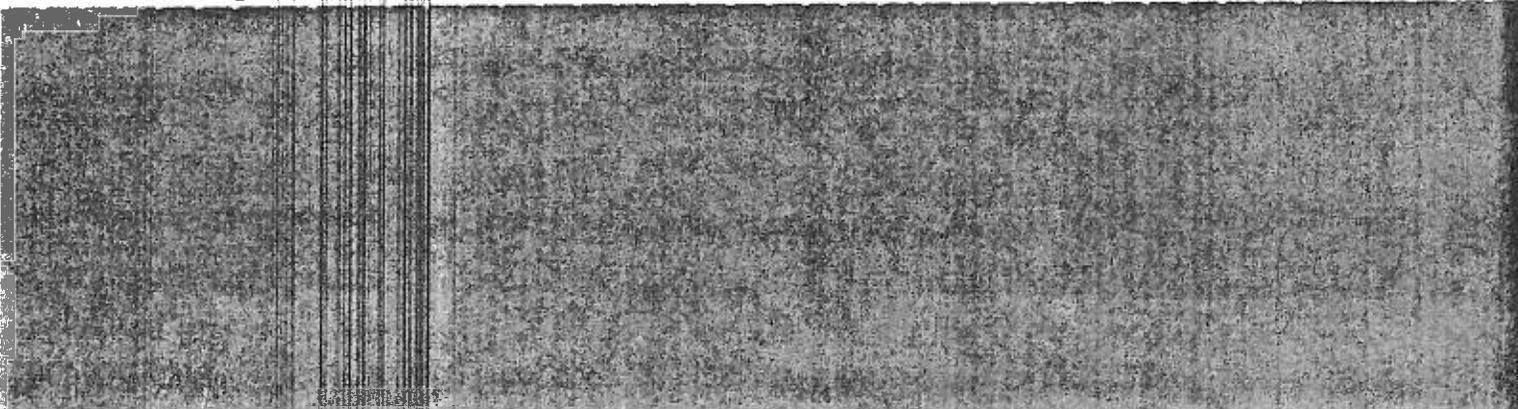
WM WILL NOT BE RESPONSIBLE FOR ACCIDENTS FROM PULLING, PUSHING VEHICLES

Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1 Cont Soil Sp. W. T	100	15.45	Tons				CHEROKEE
2 TTE- TRANSPORT (C)	100	15.45	Tons				CHEROKEE

R. Pan

Total Fees
 Total Ticket

404WM
 Driver's Signature





NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST		1. Generator's US EPA ID No. G A D 0 9 9 0 3 5 9 6 0		Manifest Doc No.		2. Page 1 of		TRK# 242			
3. Generator's Mailing Address: LAFARGE ROAD MARKING INC 2675 R N MARTIN ST EAST POINT, GA 30344			Generator's Site Address (if different than mailing):			WMNA		1861759			
4. Generator's Phone 973-625-3916						B. State Generator's ID					
5. Transporter 1 Company Name WASTE Management			6. US EPA ID Number			C. State Transporter's ID					
7. Transporter 2 Company Name			8. US EPA ID Number			D. Transporter's Phone					
9. Designated Facility Name and Site Address PINE BLUFF LANDFILL 13809 E CHEROKEE RD BALL GROUND, GA 30107			10. US EPA ID Number			E. State Transporter's ID					
						F. Transporter's Phone					
						G. State Facility ID		028-039D (SL)			
						H. State Facility Phone		770-479-2936			
GENERATOR	11. Description of Waste Materials					12. Containers		13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments	
	a. NON-HAZARDOUS NON-RCRA IMPACTED SOILS/DEBRIS NON-DOT REGULATED							15.95T			
	WM Profile # 401844GA										
	b.										
	WM Profile #										
c.											
WM Profile #											
d.											
WM Profile #											
J. Additional Descriptions for Materials Listed Above					K. Disposal Location						
					Cell				Level		
					Grid						
15. Special Handling Instructions and Additional Information											
Purchase Order #					EMERGENCY CONTACT / PHONE NO.:						
16. GENERATOR'S CERTIFICATE: I hereby certify that the above described materials are not hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.											
Printed Name Jake Meyer					Signature <i>[Signature]</i>			Month 6	Day 27	Year 13	
TRANSPORTER	17. Transporter 1 Acknowledgement of Receipt of Materials					Signature <i>[Signature]</i>			Month 6	Day 27	Year 13
	Printed Name Rick Ryan					Signature <i>[Signature]</i>			Month 6	Day 27	Year 13
	18. Transporter 2 Acknowledgement of Receipt of Materials					Signature			Month	Day	Year
Printed Name					Signature			Month	Day	Year	
FACILITY	19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.										
	20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.										
Printed Name [Signature]					Signature <i>[Signature]</i>			Month 6	Day 27	Year 13	

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY

Blue- GENERATOR #2 COPY

Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY

Gold- TRANSPORTER #1 COPY



Pine Bluff Landfill
 13809 E. Cherokee Drive
 Ball Ground, GA, 30107
 Ph: (770) 479-2936

Original
 Ticket# 1075812

Customer Name BIG BEND ENV BIG BEND ENVIRONME Carrier Newsome Trucking Newsome Trucking
 Ticket Date 07/09/2013 Vehicle# n247 Volume
 Payment Type Credit Account Container
 Manual Ticket# Driver
 Hauling Ticket# Check#
 Route Billing # 0102756
 State Waste Code Gen EPA ID NR
 Manifest 1861761 Grid
 Destination
 PO
 Profile 40184409 (NON RCRA SIMPACTED SOILS)
 Generator 111-LAFARGE ROAD LAFARGE ROAD MARKING

	Time	Scale	Operator	Inbound	Gross	
In	07/09/2013 10:47:10	Scale 1	VDANIEL		66400 lb*	
Out	07/09/2013 10:47:10		VDANIEL		23560 lb*	
			* Manual Weight		Net 42840 lb	
					Tons 21.42	

Comments

WM WILL NOT BE RESPONSIBLE FOR ACCIDENTS FROM PULLING, PUSHING VEHICLES

Product	LDX	Qty	UOM	Rate	Fee	Amount	Origin
1 Cont Soil Sp. W. T	100	21.42	Tons				FULTON
2 TTE-TRANSPORTATION	100	21.42	Tons				FULTON

Cindy

Total Fees
 Total Ticket

404WM
 Driver's Signature





NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST		1. Generator's US EPA ID No G A D 0 9 9 0 3 5 9 6 0		Manifest Doc No		2. Page 1 of		TRK# 247										
3. Generator's Mailing Address LAFARGE ROAD MARKING, NC 2675 R N MARTIN ST EAST POINT, GA 30344				Generator's Site Address (if different than mailing)				WMNA 1861761		B. State Generator's ID 66400								
4. Generator's Phone 973-625-3916		5. Transporter 1 Company Name WASTE Management		6. US EPA ID Number		C. State Transporter's ID		D. Transporter's Phone										
7. Transporter 2 Company Name		8. US EPA ID Number		E. State Transporter's ID		F. Transporter's Phone												
9. Designated Facility Name and Site Address PINE BLUFF LANDFILL 13809 E CHEROKEE RD BALL GROUND, GA 30107				10. US EPA ID Number		G. State Facility ID 028-039D (SL)		H. State Facility Phone 770-479-2936										
GENERATOR	11. Description of Waste Materials					12. Containers		13. Total Quantity		14. Unit Wt./Vol		1. Misc Comments						
	a. NON-HAZARDOUS NON-RCRA IMPACTED SOILS/DEBRIS NON-DOT REGULATED							21.42										
	WM Profile # 401844GA																	
	b.																	
	WM Profile #																	
c.																		
WM Profile #																		
d.																		
WM Profile #																		
J. Additional Descriptions for Materials Listed Above					K. Disposal Location													
					Cell		Level											
					Grid													
15. Special Handling Instructions and Additional Information																		
Purchase Order #						EMERGENCY CONTACT / PHONE NO.												
16. GENERATOR'S CERTIFICATE I hereby certify that the above-described materials are not hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations																		
Printed Name Jake Meyer				Signature "On behalf of" <i>[Signature]</i> "LRM"				Month 7		Day 9		Year 13						
TRANSPORTER	17. Transporter 1 Acknowledgement of Receipt of Materials				Printed Name Cindy Ingram				Signature <i>[Signature]</i>				Month 07		Day 09		Year 13	
	18. Transporter 2 Acknowledgement of Receipt of Materials				Printed Name				Signature				Month		Day		Year	
FACILITY	19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.																	
	20. Facility Owner/Operator Certification of receipt of non-hazardous materials covered by this manifest																	
Printed Name [Signature]				Signature <i>[Signature]</i>				Month 7		Day 9		Year 13						

White- TREATMENT/STORAGE/ DISPOSAL FACILITY COPY
Pink- FACILITY USE ONLY

Blue- GENERATOR #2 COPY
Gold- TRANSPORTER #1 COPY

Yellow- GENERATOR #1 COPY



Pine Bluff Landfill
 13809 E. Cherokee Drive
 Ball Ground, GA, 30107
 Ph: (770) 479-2936

Original
 Ticket# 1075814

Customer Name BIG BEND ENV BIG BEND ENVIRONME Carrier Newsome Trucking Newsome Trucking
 Ticket Date 07/09/2013 Vehicle# n259 Volume
 Payment Type Credit Account Container
 Manual Ticket# Driver
 Hauling Ticket# Check#
 Route Billing # 0102756
 State Waste Code Gen EPA ID NR
 Manifest 1861762 Grid
 Destination
 PO
 Profile 4010460 (NON RCRA SIMPACTED SOILS)
 Generator 111-LAFARGE ROAD LAFARGE ROAD MARKING

	Time	Scale	Operator	Inbound	Gross	56680 lb*
In	07/09/2013 10:49:41	Scale 1	VDANIEL		Tare	22660 lb*
Out	07/09/2013 10:49:41		VDANIEL		Net	34020 lb
Comments			* Manual Weight		Tons	17.01

WM WILL NOT BE RESPONSIBLE FOR ACCIDENTS FROM PULLING, PUSHING VEHICLES

Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1 Cont Soil Sp. W.	100	17.01	Tons				FULTON
2 TTE-TRANSPORTATION	100	17.01	Tons				FULTON

Total Fees
 Total Ticket

404WM
 Driver's Signature





NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST		1. Generator's US EPA ID No G A D 0 9 9 0 3 5 9 6 0		Manifest Doc No		2. Page 1 of		TRUCK # 259 Area 2							
3. Generator's Mailing Address: LAFARGE ROAD MARKING, INC 2675 R N MARTIN ST EAST POINT, GA 30344			Generator's Site Address (if different than mailing)			WMNA		1861762							
4. Generator's Phone: 973-625-3916						B. State Generator's ID 50680									
5. Transporter 1 Company Name WASTE Management		Wsome		6. US EPA ID Number		C. State Transporter's ID									
7. Transporter 2 Company Name				8. US EPA ID Number		D. Transporter's Phone									
9. Designated Facility Name and Site Address PINE BLUFF LANDFILL 13809 E CHEROKEE RD BALL GROUND, GA 30107			10. US EPA ID Number			E. State Transporter's ID									
						F. Transporter's Phone									
						G. State Facility ID		028-039D (SL)							
						H. State Facility Phone		770-479-2536							
G E N E R A T O R	11. Description of Waste Materials			12. Containers		13. Total Quantity		14. Unit Wt./Vol.		15. Misc Comments					
	a. NON-HAZARDOUS NON-PCRA IMPACTED SOILS/DEBRIS NON-DOT REGULATED									17.01T					
	WM Profile # 401844GA														
	b.														
	WM Profile #														
c.															
WM Profile #															
d.															
WM Profile #															
J. Additional Descriptions for Materials Listed Above			K. Disposal Location												
			Cell				Level								
			Grid												
15. Special Handling Instructions and Additional Information															
Purchase Order #		EMERGENCY CONTACT / PHONE NO.													
16. GENERATOR'S CERTIFICATE															
I hereby certify that the above-described materials are not hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.															
Printed Name John Meyer			Signature "On behalf of" [Signature] "LRM"			Month 7		Day 9		Year 13					
T R A N S P O R T E R	17. Transporter 1 Acknowledgement of Receipt of Materials			Printed Name X Josh Abiant			Signature [Signature]			Month 7		Day 9		Year 13	
	18. Transporter 2 Acknowledgement of Receipt of Materials			Printed Name			Signature			Month		Day		Year	
F A C I L I T Y	19. Certificate of Final Treatment/Disposal														
	I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.														
20. Facility Owner or Operator - Certification of receipt of non-hazardous materials covered by this manifest															
Printed Name [Signature]			Signature [Signature]			Month		Day		Year					

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY

Blue- GENERATOR #2 COPY

Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY

Gold- TRANSPORTER #1 COPY



Pine Bluff Landfill
 13809 E. Cherokee Drive
 Ball Ground, GA, 30107
 Ph: (770) 479-2936

Original
 Ticket# 1075818

Customer Name: BIG BEND ENV BIG BEND ENVIRONME Carrier: Newsome Trucking Newsome Trucking
 Ticket Date: 07/09/2013 Vehicle#: N260 Volume
 Payment Type: Credit Account Container
 Manual Ticket# Driver
 Hauling Ticket# Check#
 Route Billing # 0102756
 State Waste Code Gen EPA ID NR
 Manifest 1861760 Grid
 Destination
 PO
 Profile 40194409 (NON RCRA SIMPACTED SOILS)
 Generator 111-LAFARGE ROAD LAFARGE ROAD MARKING

Time	Scale	Operator	Inbound	Gross	56220 lb*
In 07/09/2013 10:57:16	Scale 2	VDANIEL		Tare	22820 lb
Out 07/09/2013 11:19:22	Scale 1	VDANIEL		Net	33400 lb
		* Manual Weight		Tons	16.70

Comments

WM WILL NOT BE RESPONSIBLE FOR ACCIDENTS FROM PULLING, PUSHING VEHICLES

Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1 Cont Soil Sp. V.	100	16.70	Tons				FULTON
2 TTE-TRANSPORTATION	100	16.70	Tons				FULTON

Paul Hastings

Total Fees
 Total Ticket

404WM
 Driver's Signature





NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST		1. Generator's US EPA ID No. G A D 0 9 9 0 3 5 9 6 0	Manifest Doc No.	2. Page 1 of	TRK# 260
------------------------	--	--	------------------	--------------	-----------------

3. Generator's Mailing Address: LAFARGE ROAD MARKING, INC 2675 R N MARTIN ST EAST POINT, GA 30344	Generator's Site Address (if different than mailing)	WMNA	1861760
		B. State Generator's ID 86220115	

4. Generator's Phone: 973-625-3916	6. US EPA ID Number	C. State Transporter's ID
5. Transporter 1 Company Name: WASTE Management	None	D. Transporter's Phone

7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID
		F. Transporter's Phone

9. Designated Facility Name and Site Address: PINE BLUFF LANDFILL 13809 E CHEROKEE RD BALL GROUND, GA 30107	10. US EPA ID Number	G. State Facility ID: 028-039D (SL)
		H. State Facility Phone: 770-479-2936

11. Description of Waste Materials	12. Containers		13. Total Quantity	14. Unit Wt./Vol.	J. Misc. Comments
	No.	Type			
a. NON-HAZARDOUS NON-RCRA IMPACTED SOILS/DEBRIS NON-DOT REGULATED WM Profile # 401844GA					16 70
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

I. Additional Descriptions for Materials Listed Above	K. Disposal Location		
	Cell		Level
	Grid		

15. Special Handling Instructions and Additional Information	
Purchase Order #	EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE
I hereby certify that the above-described materials are not hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name: Jake Meyer	Signature: <i>[Signature]</i> "ZRM"	Month: 7	Day: 9	Year: 13
---------------------------------	-------------------------------------	-----------------	---------------	-----------------

17. Transporter 1 Acknowledgement of Receipt of Materials	Printed Name: X Paul Hastings	Signature: <i>[Signature]</i>	Month: 7	Day: 9	Year: 13
---	--------------------------------------	-------------------------------	-----------------	---------------	-----------------

18. Transporter 2 Acknowledgement of Receipt of Materials	Printed Name	Signature	Month	Day	Year

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator Certification of receipt of non-hazardous materials covered by this manifest	Printed Name: [Signature]	Signature: <i>[Signature]</i>	Month: 7	Day: 9	Year: 13
---	----------------------------------	-------------------------------	-----------------	---------------	-----------------



Pine Bluff Landfill
 13809 E. Cherokee Drive
 Ball Ground, GA, 30107
 Ph: (770) 479-2936

Original
 Ticket# 1075819

Customer Name BIGBEND ENV BIG BEND ENVIRONME Carrier Newsome Trucking Newsome Trucking
 Ticket Date 07/09/2013 Vehicle# N238 Volume
 Payment Type Credit Account Container
 Manual Ticket# Driver
 Hauling Ticket# Check#
 Route Billing # 0102756
 State Waste Code Gen EPA ID NR
 Manifest 1861763 Grid
 Destination
 PO
 Profile 40104484 (NON RCRA SIMPACTED SOILS)
 Generator 111-LAFARGE ROAD LAFARGE ROAD MARKING

	Time	Scale	Operator	Inbound	Gross	
In	07/09/2013 10:57:53	Scale 2	VDANIEL		68160 lb	
Out	07/09/2013 10:57:53		VDANIEL		22180 lb	
					Net	45980 lb
					Tons	22.99

Comments

WM WILL NOT BE RESPONSIBLE FOR ACCIDENTS FROM PULLING, PUSHING VEHICLES

Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1 Cont Soil Sp. W. T	100	22.99	Tons				FULTON
2 TTE-TRANSPORTATION	100	22.99	Tons				FULTON

Total Fees
 Total Ticket

404WM
 Driver's Signature





NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST		1. Generator's US EPA ID No G A D 0 9 9 0 3 5 9 6 0	Manifest Doc No	2. Page 1 of Truck # 238 Area # 2			
3. Generator's Mailing Address LAFARGE ROAD MARKING, INC 2675 R N MARTIN ST EAST POINT, GA 30344		Generator's Site Address (if different than mailing)		WMNA 1861763			
4. Generator's Phone 973-625-3916				B. State Generator's ID			
5. Transporter 1 Company Name WASTE Management		6. US EPA ID Number		C. State Transporter's ID			
7. Transporter 2 Company Name		8. US EPA ID Number		D. Transporter's Phone			
9. Designated Facility Name and Site Address PINE BLUFF LANDFILL 13809 E CHEROKEE RD BALL GROUND, GA 30107		10. US EPA ID Number		E. State Transporter's ID			
				F. Transporter's Phone			
				G. State Facility ID 028-039D (SL)			
				H. State Facility Phone 770-479-2936			
GENERATOR	11. Description of Waste Materials		12. Containers	13. Total Quantity	14. Unit Wt./Vol.	1. Misc. Comments	
	a. NON-HAZARDOUS NON-PCRA IMPACTED SOILS/DEBRIS NON-DOT REGULATED		No.	Type			
	WM Profile # 401844GA						
	b.						
	WM Profile #						
c.							
WM Profile #							
d.							
WM Profile #							
J. Additional Descriptions for Materials Listed Above			K. Disposal Location				
			Cell		Level		
			Grnd				
15. Special Handling Instructions and Additional Information							
Purchase Order #			EMERGENCY CONTACT / PHONE NO.				
16. GENERATOR'S CERTIFICATE I hereby certify that the above-described materials are not hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations							
Printed Name JERRY WEAR		Signature "On behalf of" Jerry Wear		Month 7	Day 09	Year 13	
17. Transporter 1 Acknowledgement of Receipt of Materials		Signature [Signature]		Month 07	Day 09	Year 13	
Printed Name [Name]		Signature [Signature]		Month	Day	Year	
18. Transporter 2 Acknowledgement of Receipt of Materials		Signature		Month	Day	Year	
Printed Name		Signature		Month	Day	Year	
19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above							
20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest							
Printed Name [Name]		Signature [Signature]		Month 7	Day 09	Year 13	

GENERATOR

TRANSPORTER

FACILITY

White- TREATMENT/STORAGE/ DISPOSAL FACILITY COPY
Pink- FACILITY USE ONLY

Blue- GENERATOR #2 COPY
Gold- TRANSPORTER #1 COPY

Yellow- GENERATOR #1 COPY



Pine Bluff Landfill
 13809 E. Cherokee Drive
 Ball Ground, GA, 30107
 Ph: (770) 479-2936

Original
 Ticket# 1075874

Customer Name: BIG BEND ENV BIG BEND ENVIRONME Carrier: Newsome Trucking Newsome Trucking
 Ticket Date: 07/09/2013 Vehicle#: n259 Volume
 Payment Type: Credit Account Container
 Manual Ticket# Driver
 Hauling Ticket# Check#
 Route Billing # 0102756
 State Waste Code Gen EPA ID NR
 Manifest 1860764 Grid
 Destination
 PO
 Profile 4018408 (NON RCRA SIMPACTED SOILS)
 Generator 111-LAFARGE ROAD LAFARGE ROAD MARKING

	Time	Scale	Operator	Inbound	Gross	
In	07/09/2013 14:16:32	Scale 1	sy		53000 lb	
Out	07/09/2013 14:16:32		sy		22660 lb	
					Net	30340 lb
					Tons	15.17

Comments

WM WILL NOT BE RESPONSIBLE FOR ACCIDENTS FROM PULLING, PUSHING VEHICLES

Product	LDX	Qty	UOM	Rate	Fee	Amount	Origin
1 Cont Soil Sp. W.-T	100	15.17	Tons				CHEROKEE
2 TTE-TRANSPORTATION	100	15.17	Tons				CHEROKEE

Total Fees
 Total Ticket

404WM
 Driver's Signature





NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST		1. Generator's US EPA ID No. G A D 0 9 9 0 3 5 9 6 0		Manifest Doc No		2. Page 1 of		TRK # Area # 259					
3. Generator's Mailing Address LAFARGE ROAD MARKING, INC 2675 R N MARTIN ST EAST POINT, GA 30344				Generator's Site Address (if different than mailing):				WMNA 1861764		B. State Generator's ID			
4. Generator's Phone 973-325-3916				6. US EPA ID Number				C. State Transporter's ID		D. Transporter's Phone			
5. Transporter 1 Company Name WASTE Management New Some				7. Transporter 2 Company Name				E. State Transporter's ID		F. Transporter's Phone			
9. Designated Facility Name and Site Address PINE BLUFF LANDFILL 13809 E CHEROKEE RD BALL GROUND, GA 30107				10. US EPA ID Number				G. State Facility ID 028-039D (SL)		H. State Facility Phone 770-473-2936			
GENERATOR	11. Description of Waste Materials					12. Containers		13. Total Quantity		14. Unit Wt./Vol.		1. Misc Comments	
	a. NON-HAZARDOUS NON-PCRA IMPACTED SOILS/DEBRIS NON- DOT REGULATED WM Profile # 401844GA							1577					
	b.												
	c.												
	d.												
1. Additional Descriptions for Materials Listed Above					K. Disposal Location								
					Cell		Level						
					Grid								
15. Special Handling Instructions and Additional Information													
Purchase Order #						EMERGENCY CONTACT / PHONE NO.							
16. GENERATOR'S CERTIFICATE I hereby certify that the above described materials are not hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.													
Printed Name Take Meyer				Signature On behalf of <i>[Signature]</i>				Month 7		Day 09		Year 13	
TRANSPORTER	17. Transporter 1 Acknowledgement of Receipt of Materials					Signature <i>[Signature]</i>		Month 7		Day 9		Year 13	
	Printed Name Josh Obryant				Signature <i>[Signature]</i>								
18. Transporter 2 Acknowledgement of Receipt of Materials					Signature		Month		Day		Year		
FACILITY	19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.												
	20. Facility Owner/Operator Certification of receipt of non-hazardous materials covered by this manifest												
Printed Name [Signature]				Signature <i>[Signature]</i>				Month 1		Day 07		Year 13	

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY

Blue- GENERATOR #2 COPY

Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY

Gold- TRANSPORTER #1 COPY



Pine Bluff Landfill
 13809 E. Cherokee Drive
 Ball Ground, GA, 30107
 Ph: (770) 479-2935

Original
 Ticket# 1075887

Customer Name: BIG BEND ENV BIG BEND ENVIRONME Carrier: Newsome Trucking Newsome Trucking
 Ticket Date: 07/09/2013 Vehicle#: N238 Volume
 Payment Type: Credit Account Container
 Manual Ticket# Driver
 Hauling Ticket# Check#
 Route Billing # 0102756
 State Waste Code Gen EPA ID NR
 Manifest: 1861756 Grid
 Destination
 PO
 Profile: 40184489 (NON RCRA SIMPACTED SOILS)
 Generator: 111-LAFARGE ROAD LAFARGE ROAD MARKING

	Time	Scale	Operator	Inbound	Gross	
In	07/09/2013 14:58:41	Scale 1	sy		56720 lb	
Out	07/09/2013 14:58:41		sy		22180 lb	
					Net	34540 lb
					Tons	17.27

Comments

WM WILL NOT BE RESPONSIBLE FOR ACCIDENTS FROM PULLING, PUSHING VEHICLES

Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1 Cont Soil Sp. N. T	100	17.27	Tons				CHEROKEE
2 TTE-TRANSPORTATION	100	17.27	Tons				CHEROKEE

Total Fees
 Total Ticket

404MM
 Driver's Signature





NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST		1. Generator's US EPA ID No. G A D 0 9 9 , 0 3 5 9 6 0	Manifest Doc No.	2. Page 1 of	TRK # Area # 2		
3. Generator's Mailing Address LAFARGE ROAD MARKING, INC 2675 R N MARTIN ST EAST POINT, GA 30344		Generator's Site Address. (if different than mailing)		WMNA 1861766	B. State Generator's ID		
4. Generator's Phone 973-625-3916		6. US EPA ID Number		C. State Transporter's ID			
5. Transporter 1 Company Name WASTE Management		8. US EPA ID Number		D. Transporter's Phone			
7. Transporter 2 Company Name		10. US EPA ID Number		E. State Transporter's ID			
9. Designated Facility Name and Site Address PINE BLUFF LANDFILL 13809 E CHEROKEE RD BALL GROUND, GA 30107				F. Transporter's Phone			
				G. State Facility ID 028-039D (SL)			
				H. State Facility Phone 770-479-2935			
GENERATOR	11. Description of Waste Materials		12. Containers	13. Total Quantity	14. Unit Wt./Vol	1. Misc Comments	
	a. NON-HAZARDOUS NON-PCRA IMPACTED SOILS/DEBRIS NON-DOT REGULATED		No.	Type			
	WM Profile # 401844GA						
	b.						
	WM Profile #						
c.							
WM Profile #							
d.							
WM Profile #							
J. Additional Descriptions for Materials Listed Above			K. Disposal Location				
			Cell		Level		
			Grid				
15. Special Handling Instructions and Additional Information							
Purchase Order #			EMERGENCY CONTACT / PHONE NO.				
16. GENERATOR'S CERTIFICATE I hereby certify that the above-described materials are not hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.							
Printed Name <i>John Meyer</i>		Signature "on behalf of" <i>[Signature]</i> "LRM"		Month	Day	Year	
				7	09	13	
TRANSPORTER	17. Transporter 1 Acknowledgement of Receipt of Materials		Signature		Month	Day	Year
	Printed Name <i>[Signature]</i>		<i>[Signature]</i>		07	09	13
	18. Transporter 2 Acknowledgement of Receipt of Materials		Signature				
Printed Name		Signature		Month	Day	Year	
FACILITY	19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.						
	20. Facility Owner or Operator Certification of receipt of non-hazardous materials covered by this manifest						
Printed Name <i>[Signature]</i>		Signature <i>[Signature]</i>		Month	Day	Year	
				7	09	13	

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY

Blue- GENERATOR #2 COPY

Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY

Gold- TRANSPORTER #1 COPY



Pine Bluff Landfill
 13809 E. Cherokee Drive
 Ball Ground, GA, 30107
 Ph: (770) 479-2936

Original
 Ticket# 1075890

Customer Name: BIG BEND ENV BIG BEND ENVIRONME Carrier: Newsome Trucking Newsome Trucking
 Ticket Date: 07/09/2013 Vehicle# N260 Volume
 Payment Type: Credit Account Container
 Manual Ticket# Driver
 Hauling Ticket# Check#
 Route Billing # 0102756
 State Waste Code Gen EPA ID NR
 Manifest 1861755 Grid
 Destination
 PO
 Profile 40184488 (NON RCRA SIMPACTED SOILS)
 Generator 111-LAFARGE ROAD LAFARGE ROAD MARKING

	Time	Scale	Operator	Inbound	Gross	53400 lb
In	07/09/2013 15:03:27	Scale 2	sy		Tare	22820 lb
Out	07/09/2013 15:03:27		sy		Net	30580 lb
					Tons	15.29

Comments

WM WILL NOT BE RESPONSIBLE FOR ACCIDENTS FROM PULLING, PUSHING VEHICLES

Product	LDX	Qty	UOM	Rate	Fee	Amount	Origin
1 Cont Soil Sp. W-T	100	15.29	Tons				CHEROKEE
2 TTE-TRANSPORTATION	100	15.29	Tons				CHEROKEE

Total Fees
 Total Ticket

404WM
 Driver's Signature





NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST		1. Generator's US EPA ID No. G A D 0 9 9 0 3 5 9 6 0	Manifest Doc No	2. Page 1 of	TRK# 260 Area 2			
3. Generator's Mailing Address: LAFARGE ROAD MARKING, INC 2675 R N MARTIN ST EAST POINT, GA 30344		Generator's Site Address (if different than mailing):		WMNA		1861765	B State Generator's ID	
4. Generator's Phone: 973-825-3916		5. Transporter 1 Company Name: WASTE Management		6. US EPA ID Number		C. State Transporter's ID		
7. Transporter 2 Company Name		8. US EPA ID Number		D. Transporter's Phone		E. State Transporter's ID		
9. Designated Facility Name and Site Address: PINE BLUFF LANDFILL 13809 E CHEROKEE RD BALL GROUND, GA 30107		10. US EPA ID Number		F. Transporter's Phone		G. State Facility ID: 028-039D (SL)		
				H. State Facility Phone: 770-479-2936				
GENERATOR	11. Description of Waste Materials: a. NON-HAZARDOUS NON-RCRA IMPACTED SOILS/DEBRIS NON-DOT REGULATED			12. Containers No. Type		13. Total Quantity	14. Unit Wt./Vol.	1. Misc. Comments
	WM Profile # 401844GA							15.29 T
	b. WM Profile #							
	c. WM Profile #							
	d. WM Profile #							
J. Additional Descriptions for Materials Listed Above				K. Disposal Location				
				Cell		Level		
				Grid				
15. Special Handling Instructions and Additional Information								
Purchase Order #				EMERGENCY CONTACT / PHONE NO				
16. GENERATOR'S CERTIFICATE I hereby certify that the above-described materials are not hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.								
Printed Name: Jake Meyer				Signature "On behalf of": [Signature] "LRM"		Month: 7	Day: 09	Year: 13
TRANSPORTER	17. Transporter 1 Acknowledgement of Receipt of Materials							
	Printed Name: Paul Hastings		Signature: [Signature]		Month: 7	Day: 09	Year: 13	
	18. Transporter 2 Acknowledgement of Receipt of Materials							
Printed Name:		Signature:		Month:	Day:	Year:		
FACILITY	19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.							
	20. Facility Owner or Operator Certification of receipt of non-hazardous materials covered by this manifest.							
Printed Name: [Signature]				Signature: [Signature]		Month: 7	Day: 9	Year: 13

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Pink- FACILITY USE ONLY

Blue- GENERATOR #2 COPY
Gold- TRANSPORTER #1 COPY

Yellow- GENERATOR #1 COPY



Pine Bluff Landfill
 13809 E. Cherokee Drive
 Ball Ground, GA, 30107
 Ph: (770) 479-2936

Original
 Ticket# 1075993

Customer Name BIG BEND ENV BIG BEND ENVIRONME Carrier Newsome Trucking Newsome Trucking
 Ticket Date 07/10/2013 Vehicle# N260 Volume
 Payment Type Credit Account Container
 Manual Ticket# Driver
 Hauling Ticket# Check#
 Route Billing # 0102756
 State Waste Code Gen EPA ID NR
 Manifest 1861757 Grid
 Destination
 PG
 Profile 40134454 (NON RCRA SIMPACTED SOILS)
 Generator 111-LAFARGE ROAD LAFARGE ROAD MARKING

	Time	Scale	Operator	Inbound	Gross	53540 lb
In	07/10/2013 09:35:17	Scale 2	SY		Tare	22020 lb
Out	07/10/2013 09:35:17		SY		Net	30720 lb
					Tons	15.36

Comments

WM WILL NOT BE RESPONSIBLE FOR ACCIDENTS FROM PULLING, PUSHING VEHICLES

Product	LDX	Qty	UOM	Rate	Fee	Amount	Origin
1 Cont Soil Sp. M-T	100	15.36	Tons				CHEROKEE
2 TTE-TRANSPORTATION	100	15.36	Tons				CHEROKEE

Paul Hastings

Total Fees
 Total Ticket





NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST		1. Generator's US EPA ID No G A D 0 9 9 0 3 5 9 6 0	Manifest Doc No	2. Page 1 of	TRK # 260 Area # 2		
3. Generator's Mailing Address: LAFARGE ROAD MARKING, INC 2675 R N MARTIN ST EAST POINT, GA 30344		Generator's Site Address (if different than mailing):		WMNA	1861767		
4. Generator's Phone: 973-525-3916		B. State Generator's ID					
5. Transporter 1 Company Name WASTE Management		6. US EPA ID Number		C. State Transporter's ID			
7. Transporter 2 Company Name		8. US EPA ID Number		D. Transporter's Phone			
9. Designated Facility Name and Site Address PINE BLUFF LANDFILL 13809 E CHEROKEE RD BALL GROUND, GA 30107		10. US EPA ID Number		E. State Transporter's ID			
				F. Transporter's Phone			
				G. State Facility ID: 028-039D (SL)			
				H. State Facility Phone: 770-479-2936			
GENERATOR	11. Description of Waste Materials		12. Containers	13. Total Quantity	14. Unit Wt./Vol.	15. Misc Comments	
	a. NON-HAZARDOUS NON-RCRA IMPACTED SOILS/DEBRIS NON-DOT REGULATED		No.	Type			
	WMA Profile # 401844GA				1536T		
	b.						
	WMA Profile #						
c.							
WMA Profile #							
d.							
WMA Profile #							
J. Additional Descriptions for Materials Listed Above		K. Disposal Location					
		Cell		Level			
		Grid					
15. Special Handling Instructions and Additional Information							
Purchase Order #		EMERGENCY CONTACT / PHONE NO.:					
16. GENERATOR'S CERTIFICATE I hereby certify that the above-described materials are not hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations							
Printed Name: Jake Meyer		Signature "On behalf of": [Signature] "LRM"			Month: 7	Day: 10	Year: 13
TRANSPORTER	17. Transporter 1 Acknowledgement of Receipt of Materials		Signature: [Signature]		Month: 7	Day: 10	Year: 13
	Printed Name: Paul Hasenwiler		Signature: [Signature]		Month: 7	Day: 10	Year: 13
	18. Transporter 2 Acknowledgement of Receipt of Materials		Signature:		Month:	Day:	Year:
Printed Name:		Signature:		Month:	Day:	Year:	
FACILITY	19. Certificate of Final Treatment/Disposal I certify, on behalf of the above-listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above						
	20. Facility Owner/Operator Certification of receipt of non-hazardous materials covered by this manifest						
Printed Name: [Signature]		Signature: [Signature]			Month: 7	Day: 10	Year: 13

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY

Blue- GENERATOR #2 COPY

Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY

Gold- TRANSPORTER #1 COPY



Pine Bluff Landfill
 13809 E. Cherokee Drive
 Ball Ground, GA, 30107
 Ph: (770) 479-2936

Original
 Ticket# 1075999

Customer Name **BIG BEND ENVIRONMENTAL** Carrier **Newsome Trucking** Newsome Trucking
 Ticket Date **07/10/2013** Vehicle# **N215** Volume
 Payment Type **Credit Account** Container
 Manual Ticket# Driver
 Hauling Ticket# Check#
 Route Billing # **0102756**
 State Waste Code Gen EPA ID **NR**
 Manifest **1881763** Grid
 Destination
 PD
 Profile **401B440A (NON RCRA SIMPACTED SOILS)**
 Generator **111-LAFARGE ROAD LAFARGE ROAD MARKING**

	Time	Scale	Operator	Inbound	Gross	58148 lb
In	07/10/2013 10:07:51	Scale 1	SY		Tare	24386 lb
Out	07/10/2013 10:27:51		SY		Net	33760 lb
					Tons	16.88

Comments

WM WILL NOT BE RESPONSIBLE FOR ACCIDENTS FROM PULLING, PUSHING VEHICLES

Product	LDX	Qty	UDM	Rate	Fee	Amount	Origin
1 Cont Soil Sp. N-T 100		16.88	Tons				CHEROKEE
2 TTE-TRANSPORTATION 100		16.88	Tons				CHEROKEE

Total Fees
 Total Ticket

404WM





NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST		1. Generator's US EPA ID No. G A D 0 9 9 0 3 5 9 6 0	Manifest Doc No.	2. Page 1 of	TRUCK # 215 Alec # 2			
3. Generator's Mailing Address: LAFARGE ROAD MARKING, INC 2675 R N MARTIN ST EAST POINT, GA 30344		Generator's Site Address (if different than mailing):		WMNA	1861768			
4. Generator's Phone 973-625-3916				B. State Generator's ID				
5. Transporter 1 Company Name WASTE Management		6. US EPA ID Number		C. State Transporter's ID				
				D. Transporter's Phone				
7. Transporter 2 Company Name		8. US EPA ID Number		E. State Transporter's ID				
				F. Transporter's Phone				
9. Designated Facility Name and Site Address PINE BLUFF LANDFILL 13809 E CHEROKEE RD BALL GROUND, GA 30107		10. US EPA ID Number		G. State Facility ID 028-039D (SL)				
				H. State Facility Phone 770-479-2936				
GENERATOR	11. Description of Waste Materials		12. Containers		13. Total Quantity	14. Unit Wt./Vol.	1. Misc. Comments	
	a. NON-HAZARDOUS NON-RCRA IMPACTED SOILS/DEBRIS NON-DOT REGULATED		No.	Type				
	WM Profile # 401844GA				16.88	T		
	b.							
	WM Profile #							
	c.							
WM Profile #								
d.								
WM Profile #								
J. Additional Descriptions for Materials Listed Above		K. Disposal Location						
		Cell				Level		
		Grid						
15. Special Handling Instructions and Additional Information								
Purchase Order #				EMERGENCY CONTACT / PHONE NO.:				
16. GENERATOR'S CERTIFICATE: I hereby certify that the above-described materials are not hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.								
Printed Name <i>Jake Meyer</i>		Signature "On behalf of" <i>Jake Meyer</i> "LMR"			Month	Day	Year	
					7	10	13	
TRANSPORTER	17. Transporter 1 Acknowledgement of Receipt of Materials		Signature			Month	Day	Year
	Printed Name <i>Michael Young</i>		<i>Michael Young</i>			7	10	13
	18. Transporter 2 Acknowledgement of Receipt of Materials		Signature			Month	Day	Year
FACILITY	19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.							
	20. Facility Owner or Operator Certification of receipt of non-hazardous materials covered by this manifest.							
Printed Name <i>Shawanda</i>		Signature <i>Shawanda</i>			Month	Day	Year	
					7	10	13	

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY

Blue- GENERATOR #2 COPY

Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY

Gold- TRANSPORTER #1 COPY



Pine Bluff Landfill
 13809 E. Cherokee Drive
 Ball Ground, GA, 30107
 Ph: (770) 479-2936

Original
 Ticket# 1076006

Customer Name ~~BIG BEND ENV~~ BIG BEND ENVIRONME Carrier Newsome Trucking Newsome Trucking
 Ticket Date 07/10/2013 Vehicle# N238 Volume
 Payment Type Credit Account Container
 Manual Ticket# Driver
 Hauling Ticket# Check#
 Route Billing # 0102756
 State Waste Code Gen EPA ID NR
 Manifest 1881769 Grid
 Destination
 PO
 Profile 40184400 (NON RCRA SIMPACTED SOILS)
 Generator 111-LAFARGE ROAD LAFARGE ROAD MARKING

Time	Scale	Operator	Inbound	Gross	59840 lb
In 07/10/2013 10:37:02	Scale 2	VDANIEL		Tare	22180 lb
Out 07/10/2013 10:37:02		VDANIEL		Net	37660 lb
				Tons	18.83

Comments

WM WILL NOT BE RESPONSIBLE FOR ACCIDENTS FROM PULLING, PUSHING VEHICLES

Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1 Cont Soil Sp. W. T	100	18.83	Tons				FULTON
2 TTE-TRANSPORTATION	100	18.83	Tons				FULTON

Total Fees
 Total Ticket





NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST		1. Generator's US EPA ID No. G A D 0 9 9 0 3 5 9 6 0	Manifest Doc No.	2. Page 1 of	TRK# 138 Area # 2
3. Generator's Mailing Address: LAFARGE ROAD MARKING, INC 2675 R N MARTIN ST EAST POINT, GA 30344		Generator's Site Address (if different than mailing):		WMNA	1861769
4. Generator's Phone: 973-625-3916		B. State Generator's ID:			
5. Transporter 1 Company Name: WASTE Management		6. US EPA ID Number		C. State Transporter's ID	
7. Transporter 2 Company Name:		8. US EPA ID Number		D. Transporter's Phone	
9. Designated Facility Name and Site Address: PINE BLUFF LANDFILL 13809 E CHEROKEE RD BALL GROUND, GA 30107		10. US EPA ID Number		E. State Transporter's ID	
				F. Transporter's Phone	
				G. State Facility ID: 028-039D (SL)	
				H. State Facility Phone: 770-479-2936	
GENERATOR	11. Description of Waste Materials		12. Containers		13. Total Quantity
	a. NON-HAZARDOUS NON-PARA IMPACTED SOILS/DEBRIS NON-DOT REGULATED		No.	Type	14. Unit Wt./Vol.
	WM Profile # 401844GA		18.83		
	b. WM Profile #				
	c. WM Profile #				
d. WM Profile #					
1. Additional Descriptions for Materials Listed Above		K. Disposal Location			
		Cell		Level	
		Grid			
15. Special Handling Instructions and Additional Information					
Purchase Order #			EMERGENCY CONTACT / PHONE NO.		
16. GENERATOR'S CERTIFICATE: I hereby certify that the above-described materials are not hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.					
Printed Name: John Murr		Signature: <i>[Signature]</i> "LRM"		Month: 07	Day: 10
				Year: 2013	
TRANSPORTER	17. Transporter 1 Acknowledgment of Receipt of Materials		Signature: <i>[Signature]</i>		Month: 07
	Printed Name: Robert Lee				Day: 10
					Year: 2013
18. Transporter 2 Acknowledgment of Receipt of Materials		Signature:		Month:	Day:
Printed Name:				Year:	
19. Certificate of Final Treatment/Disposal		I certify, on behalf of the above-listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.			
FACILITY	20. Facility Owner or Operator Certification of receipt of non-hazardous materials covered by this manifest		Signature: <i>[Signature]</i>		Month: 7
	Printed Name: [Name]				Day: 10
				Year: 13	

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY

Blue- GENERATOR #2 COPY

Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY

Gold- TRANSPORTER #1 COPY



Pine Bluff Landfill
 13809 E. Cherokee Drive
 Ball Ground, GA, 30107
 Ph: (770) 479-2936

Original
 Ticket# 1075049

Customer Name BIG BEND ENV BIG BEND ENVIRONME Carrier Newsome Trucking Newsome Trucking
 Ticket Date 07/10/2013 Vehicle# N260 Volume
 Payment Type Credit Account Container
 Manual Ticket# Driver
 Hauling Ticket# Check#
 Route Billing # 0102756
 State Waste Code Gen EPA ID NR
 Manifest 1851770 Grid
 Destination
 PO
 Profile 4018-46A (NON RCRA SIMPACTED SOILS)
 Generator 111-LAFARGE ROAD LAFARGE ROAD MARKING

Time	Scale	Operator	Inbound	Gross	51160 lb
In 07/10/2013 12:46:24	Scale 1	sy		Tare	22820 lb
Out 07/10/2013 12:46:24		sy		Net	28340 lb
				Tons	14.17

Comments

WM WILL NOT BE RESPONSIBLE FOR ACCIDENTS FROM PULLING, PUSHING VEHICLES

Product	LDX	Qty	UOM	Rate	Fee	Amount	Origin
1 Cont Soil Sp. W. T	100	14.17	Tons				CHEROKEE
2 TTE-TRANSPORTATION	100	14.17	Tons				CHEROKEE

Handwritten Signature

Total Fees
 Total Ticket

404WM

Driver's Signature





NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST		1. Generator's US EPA ID No. G A D 0 9 9 0 3 5 9 6 0	Manifest Doc No	2. Page 1 of	TRK# 260 Area #		
3. Generator's Mailing Address LAFARGE ROAD MARKING, INC 2675 R N MARTIN ST EAST POINT, GA 30344		Generator's Site Address (if different than mailing)		WMNA	1861770		
4. Generator's Phone 873-625-3916				B. State Generator's ID			
5. Transporter 1 Company Name WASTE Management		6. US EPA ID Number		C. State Transporter's ID			
				D. Transporter's Phone			
7. Transporter 2 Company Name		8. US EPA ID Number		E. State Transporter's ID			
				F. Transporter's Phone			
9. Designated Facility Name and Site Address PINE BLUFF LANDFILL 13809 E CHEROKEE RD BALL GROUND, GA 30107		10. US EPA ID Number		G. State Facility ID 028-039D (SL)			
				H. State Facility Phone 770-479-2936			
GENERATOR	11. Description of Waste Materials		12. Containers		13. Total Quantity	14. Unit Wt./Vol	1. Misc. Comments
	a. NON-HAZARDOUS NON-PCRA IMPACTED SOILS/DEBRIS NON-DOT REGULATED		No.	Type	14	17	T
	WM Profile # 401844GA						
	b.						
	WM Profile #						
	c.						
d.							
WM Profile #							
J. Additional Descriptions for Materials Listed Above		K. Disposal Location					
		Cell				Level	
		Grid					
15. Special Handling Instructions and Additional Information							
Purchase Order #				EMERGENCY CONTACT / PHONE NO.			
16. GENERATOR'S CERTIFICATE I hereby certify that the above-described materials are not hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.							
Printed Name John Meyer		Signature "on behalf of" <i>John Meyer</i> "LRM"			Month 7	Day 10	Year 13
17. Transporter 1 Acknowledgment of Receipt of Materials		Printed Name Paul Hastings			Signature <i>Paul Hastings</i>		
					Month 7	Day 10	Year 13
18. Transporter 2 Acknowledgment of Receipt of Materials		Printed Name			Signature		
					Month	Day	Year
19. Certificate of Final Treatment/Disposal I certify, on behalf of the above-listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.							
20. Facility Owner or Operator Certification of receipt of non-hazardous materials covered by this manifest							
Printed Name <i>[Signature]</i>		Signature <i>[Signature]</i>			Month 7	Day 10	Year 13

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Pink- FACILITY USE ONLY

Blue- GENERATOR #2 COPY
Gold- TRANSPORTER #1 COPY

Yellow- GENERATOR #1 COPY



Pine Bluff Landfill
 13809 E. Cherokee Drive
 Ball Ground, GA, 30107
 Ph: (770) 479-2936

Original
 Ticket# 1076060

Customer Name BIG BEND ENV BIG BEND ENVIRONME Carrier Newsome Trucking Newsome Trucking
 Ticket Date 07/10/2013 Vehicle# N238 Volume
 Payment Type Credit Account Container
 Manual Ticket# Driver
 Hauling Ticket# Check#
 Route Billing # 0102756
 State Waste Code Gen EPA ID NR
 Manifest 1861771 Grid
 Destination
 PO
 Profile 40154430 (NON RCRA SIMPACTED SOILS)
 Generator 111-LAFARGE ROAD LAFARGE ROAD MARKING

Time	Scale	Operator	Inbound	Gross	57280 lb
In 07/10/2013 13:38:03	Scale 2	sy		Tare	22180 lb
Out 07/10/2013 13:38:03		sy		Net	35100 lb
				Tons	17.55

Comments

WM WILL NOT BE RESPONSIBLE FOR ACCIDENTS FROM PULLING, PUSHING VEHICLES

Product	LDX	Qty	UOM	Rate	Fee	Amount	Origin
1 Cont Soil Sp. W-T 100		17.55	Tons				CHEROKEE
2 TTE-TRANSPORTATION 100		17.55	Tons				CHEROKEE

Rogers

Total Fees
 Total Ticket

404WM
 Driver's Signature





NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST		1. Generator's US EPA ID No G A D 0 9 9 0 3 5 9 6 0	Manifest Doc No	2. Page 1 of	TRK # 238 Area # 2		
3. Generator's Mailing Address LAFARGE ROAD MARKING, INC 2675 R N MARTIN ST EAST POINT, GA 30344		Generator's Site Address (if different than mailing)		WMNA	1861771		
4. Generator's Phone 873-25-3916				B. State Generator's ID			
5. Transporter 1 Company Name WASTE Management		6. US EPA ID Number		C. State Transporter's ID			
				D. Transporter's Phone			
7. Transporter 2 Company Name		8. US EPA ID Number		E. State Transporter's ID			
				F. Transporter's Phone			
9. Designated Facility Name and Site Address PINE BLUFF LANDFILL 13809 E CHEROKEE RD BALL GROUND, GA 30107		10. US EPA ID Number		G. State Facility ID		028-0390 (SL)	
				H. State Facility Phone		770-479-2935	
GENERATOR	11. Description of Waste Materials		12. Containers		13. Total Quantity	14. Unit Wt/Vol	1. Misc Comments
	a. NON-HAZARDOUS NON-FCRA IMPACTED SOILS/DEBRIS NON-DOT REGULATED		No.	Type			1755T
	WM Profile # 401844GA						
	b. WM Profile #						
	c. WM Profile #						
d. WM Profile #							
J. Additional Descriptions for Materials Listed Above		K. Disposal Location					
		Cell				Level	
		Grid					
15. Special Handling Instructions and Additional Information							
Purchase Order #				EMERGENCY CONTACT / PHONE NO.			
16. GENERATOR'S CERTIFICATE I hereby certify that the above-described materials are not hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.							
Printed Name Lars Meyer		Signature "On behalf of" <i>[Signature]</i> "LRM"		Month 7	Day 10	Year 13	
TRANSPORTER	17. Transporter 1 Acknowledgement of Receipt of Materials		Signature <i>[Signature]</i>		Month 07	Day 10	Year 13
	Printed Name Boyd Ice		Signature <i>[Signature]</i>				
	18. Transporter 2 Acknowledgement of Receipt of Materials		Signature		Month	Day	Year
Printed Name		Signature					
FACILITY	19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.						
	20. Facility Owner or Generator Certification of receipt of non-hazardous materials covered by this manifest						
Printed Name <i>[Signature]</i>		Signature <i>[Signature]</i>		Month 7	Day 10	Year 13	

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Pink- FACILITY USE ONLY

Blue- GENERATOR #2 COPY
Gold- TRANSPORTER #1 COPY

Yellow- GENERATOR #1 COPY



Pine Bluff Landfill
 13809 E. Cherokee Drive
 Ball Ground, GA, 30107
 Ph: (770) 479-2936

Original
 Ticket# 1076224

Customer Name: BIG BEND ENVIRONME Carrier: Newsome Trucking Newsome Trucking
 Ticket Date: 07/11/2013 Vehicle# N260 Volume
 Payment Type: Credit Account Container
 Manual Ticket# Driver
 Hauling Ticket# Check#
 Route Billing # 0102756
 State Waste Code Gen EPA ID NR
 Manifest 18E1772 Grid
 Destination
 PO
 Profile 4016-400 (NON RCRA SIMPACTED SOILS)
 Generator 111-LAFARGE ROAD LAFARGE ROAD MARKING

Time	Scale	Operator	Inbound	Gross	53080 lb
In 07/11/2013 12:01:35	Scale 1	sy		Tare	22820 lb
Out 07/11/2013 12:01:35		sy		Net	30260 lb
				Tons	15.13

Comments

WM WILL NOT BE RESPONSIBLE FOR ACCIDENTS FROM PULLING, PUSHING VEHICLES

Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1 Cont Soil Sp. M.	100	15.13	Tons				CHEROKEE
2 TTE-TRANSPORTATION	100	15.13	Tons				CHEROKEE

Handwritten Signature

Total Fees
 Total Ticket

404WM
 Driver's Signature





NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST		1. Generator's US EPA ID No GAD099035960	Manifest Doc No.	2. Page 1 of TRK# N260
3. Generator's Mailing Address LAFARGE ROAD MARK YG, INC 2675 R N MARTIN ST EAST POINT, GA 30344		Generator's Site Address (if different than mailing):		WMNA 1861772 B. State Generator's ID
4. Generator's Phone 573-825-3916		6. US EPA ID Number		C. State Transporter's ID
5. Transporter 1 Company Name WASTE Management		7. Transporter 2 Company Name		D. Transporter's Phone
8. US EPA ID Number		9. Designated Facility Name and Site Address PINE BLUFF LANDFILL 13809 E CHEROKEE RD BALL GROUND, GA 30107		E. State Transporter's ID
10. US EPA ID Number		11. Description of Waste Materials a. NON-HAZARDOUS NON-PHRA IMPACTED SOILS/DEBRIS NON-DOT REGULATED WM Profile # 401844GA		F. Transporter's Phone
12. Containers		13. Total Quantity		G. State Facility ID 028-039D (SL)
14. Unit Wt./Vol		1 Misc Comments		H. State Facility Phone 770-679-2936
15. Special Handling Instructions and Additional Information		16. GENERATOR'S CERTIFICATE I hereby certify that the above-described materials are not hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.		
Purchase Order #		EMERGENCY CONTACT / PHONE NO.		
Printed Name Jake Meyer		Signature / On behalf of <i>[Signature]</i> "LRM"		Month Day Year 7 11 13
17. Transporter 1 Acknowledgement of Receipt of Materials		Signature <i>[Signature]</i>		Month Day Year 7 11 13
Printed Name PAUL HASTINGS		Signature <i>[Signature]</i>		Month Day Year 7 11 13
18. Transporter 2 Acknowledgement of Receipt of Materials		Signature		Month Day Year
Printed Name		Signature		Month Day Year
19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.		20. Facility Owner or Operator Certification of receipt of non-hazardous materials covered by this manifest		
Printed Name <i>[Signature]</i>		Signature <i>[Signature]</i>		Month Day Year 7 11 13

GENERATOR

TRANSPORTER

FACILITY

White- TREATMENT/STORAGE/ DISPOSAL FACILITY COPY

Blue- GENERATOR #2 COPY

Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY

Gold- TRANSPORTER #1 COPY



Pine Bluff Landfill
 13809 E. Cherokee Drive
 Ball Ground, GA, 30107
 Ph: (770) 479-2936

Original
 Ticket# 1076264

Customer Name BIG BEND ENV BIG BEND ENVIRONME Carrier Newsome Trucking Newsome Trucking
 Ticket Date 07/11/2013 Vehicle# N260 Volume
 Payment Type Credit Account Container
 Manual Ticket# Driver
 Hauling Ticket# Check#
 Route Billing # 0102756
 State Waste Code Gen EPA ID NR
 Manifest 1861778 Grid
 Destination
 PO
 Profile 40184460 (NON RCRA SIMPACTED SOILS)
 Generator 111-LAFARGE ROAD LAFARGE ROAD MARKING

Time	Scale	Operator	Inbound	Gross	49460 lb
In 07/11/2013 14:47:26	Scale 2	sy		Tare	22820 lb
Out 07/11/2013 14:47:26		sy		Net	26640 lb
				Tons	13.32

Comments

WM WILL NOT BE RESPONSIBLE FOR ACCIDENTS FROM PULLING, PUSHING VEHICLES

Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1 Cont Soil Sp. W. T	100	13.32	Tons				CHEROKEE
2 TTE-TRANSPORTATION	100	13.32	Tons				CHEROKEE

Ed Hastings

Total Fees
 Total Ticket

404WM
 Driver's Signature





NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST		1. Generator's US EPA ID No G A D 0 9 9 0 3 5 9 6 0	Manifest Doc No.	2. Page 1 of	TRK # N260	
3. Generator's Mailing Address LAFARGE ROAD MARKING, INC 2675 R N MARTIN ST EAST POINT, GA 30344		Generator's Site Address (if different than mailing)		WMNA	1861773	
4. Generator's Phone 878-625-3916		B. State Generator's ID				
5. Transporter 1 Company Name WASTE Management		6. US EPA ID Number		C. State Transporter's ID		
7. Transporter 2 Company Name		8. US EPA ID Number		D. Transporter's Phone		
9. Designated Facility Name and Site Address PINE BLUFF LANDFILL 13809 E CHEROKEE RD BALL GROUND, GA 30137		10. US EPA ID Number		E. State Transporter's ID		
				F. Transporter's Phone		
				G. State Facility ID 028-039D (SL)		
				H. State Facility Phone 770-675-2936		
GENERATOR	11. Description of Waste Materials		12. Containers		13. Total Quantity	
	a. NON-HAZARDOUS NON-PCRA IMPACTED SOILS/DEBRIS NON-DOT REGULATED		No. Type		14. Unit Wt./Vol.	
	WM File # 401844GA				1332T	
	b. WM Profile #					
	c. WM Profile #					
d. WM Profile #						
J. Additional Descriptions for Materials Listed Above		K. Disposal Location				
		Cell		Level		
		Grid				
15. Special Handling Instructions and Additional Information						
Purchase Order #			EMERGENCY CONTACT / PHONE NO.			
16. GENERATOR'S CERTIFICATE						
I hereby certify that the above-described materials are not hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.						
Printed Name Jane Meyer		Signature "On behalf of" <i>Jane Meyer</i> "LRM"		Month 7	Day 11	Year 13
TRANSPORTER	17. Transporter 1 Acknowledgement of Receipt of Materials		Signature		Month 7	Day 11
	Printed Name PAUL HASTINGS		<i>Paul Hastings</i>		Day 11	Year 13
	18. Transporter 2 Acknowledgement of Receipt of Materials		Signature		Month	Day
Printed Name		Signature		Month	Day	Year
FACILITY	19. Certificate of Final Treatment/Disposal					
	I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.					
20. Facility Owner or Operator Certification of receipt of non-hazardous materials covered by this manifest						
Printed Name Steve Shames		Signature <i>Steve Shames</i>		Month 7	Day 11	Year 13

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Pink- FACILITY USE ONLY

Blue- GENERATOR #2 COPY
Gold- TRANSPORTER #1 COPY

Yellow- GENERATOR #1 COPY



Pine Bluff Landfill
 13809 E. Cherokee Drive
 Ball Ground, GA, 30107
 Ph: (770) 479-2936

Original
 Ticket# 1077388

Customer Name: BIG BEND ENVIRONME Carrier: Newsome Trucking Newsome Trucking
 Ticket Date: 07/19/2013 Vehicle# n242 Volume
 Payment Type: Credit Account Container
 Manual Ticket# Driver
 Hauling Ticket# Check#
 Route: Billing # 0102756
 State Waste Code: Gen EPA ID NR
 Manifest: 1861774 Grid
 Destination:
 PO:
 Profile: 4018469 (NON RCRA SIMPACTED SOILS)
 Generator: 111-LAFARGE ROAD LAFARGE ROAD MARKING

Time	Scale	Operator	Inbound	Gross	60140 lb
In 07/19/2013 09:39:44	Scale 1	SY		Tare	23540 lb
Out 07/19/2013 09:39:44		SY		Net	36600 lb
				Tons	18.30

Comments

WM WILL NOT BE RESPONSIBLE FOR ACCIDENTS FROM PULLING, PUSHING VEHICLES

Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1 Cont Soil Sp. M-T	100	18.30	Tons				CHEROKEE
2 TTE-TRANSPORTATION	100	18.30	Tons				CHEROKEE

Total Fees
 Total Ticket

R. Ben

404WM
 Driver's Signature





NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST		1. Generator's US EPA ID No. G A D 0 9 9 0 3 5 9 6 0	Manifest Doc No	2. Page 1 of	TRK# N242			
3. Generator's Mailing Address LAFARGE ROAD MARKING, INC 2675 R N MARTIN ST EAST POINT, GA 30344		Generator's Site Address (if different than mailing)		WMNA		1861774		
4. Generator's Phone 973-625-3916				B. State Generator's ID				
5. Transporter 1 Company Name WASTE Management		6. US EPA ID Number		C. State Transporter's ID				
PWSOWE				D. Transporter's Phone				
7. Transporter 2 Company Name		8. US EPA ID Number		E. State Transporter's ID				
				F. Transporter's Phone				
9. Designated Facility Name and Site Address PINE BLUFF LANDFILL 13809 E CHEROKEE RD BALL GROUND, GA 30107		10. US EPA ID Number		G. State Facility ID		028-039D (SL)		
				H. State Facility Phone		770-479-2936		
GENERATOR	11. Description of Waste Materials		12. Containers		13. Total Quantity		14. Unit Wt./Vol	
	a. NON-HAZARDOUS NON-PCRA IMPACTED SOILS/DEBRIS NON-DOT REGULATED		No. Type		1830T			
	WM Profile # 401844GA							
	b.							
	WM Profile #							
c.								
WM Profile #								
d.								
WM Profile #								
J. Additional Descriptions for Materials Listed Above			K. Disposal Location					
			Cell		Level			
			Grid					
15. Special Handling Instructions and Additional Information								
Purchase Order #				EMERGENCY CONTACT / PHONE NO				
16. GENERATOR'S CERTIFICATE: I hereby certify that the above-described materials are not hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.								
Printed Name Jack Meyer		Signature "On behalf of" <i>John Meyer</i> "LRM"			Month 7	Day 19	Year 13	
17. Transporter 1 Acknowledgment of Receipt of Materials								
Printed Name X Rick Run N-242		Signature <i>Rk Run</i>			Month 7	Day 19	Year 13	
18. Transporter 2 Acknowledgment of Receipt of Materials								
Printed Name		Signature			Month	Day	Year	
19. Certificate of Final Treatment/Disposal I certify, on behalf of the above-listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.								
20. Facility Owner or Operator Certification of receipt of non-hazardous materials covered by this manifest								
Printed Name <i>[Signature]</i>		Signature <i>[Signature]</i>			Month 7	Day 19	Year 13	

White- TREATMENT/STORAGE/ DISPOSAL FACILITY COPY

Blue- GENERATOR #2 COPY

Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY

Gold- TRANSPORTER #1 COPY



Pine Bluff Landfill
 13809 E. Cherokee Drive
 Ball Ground, GA, 30107
 Ph: (770) 479-2936

Original
 Ticket# 1077436

Customer Name: BIG BEND ENV BIG BEND ENVIRONME Carrier: Newsome Trucking Newsome Trucking
 Ticket Date: 07/19/2013 Vehicle# n242 Volume
 Payment Type: Credit Account Container
 Manual Ticket# Driver
 Hauling Ticket# Check#
 Route: Billing # 0102756
 State Waste Code: Gen EPA ID NR
 Manifest: 1851775 Grid
 Destination: PO
 Profile: 4218-469 (NON RCRA SIMPACTED SOILS)
 Generator: 111-LAFARGE ROAD LAFARGE ROAD MARKING

Time	Scale	Operator	Inbound	Gross	57060 lb
In 07/19/2013 12:34:57	Scale 2	sy		Tare	23540 lb
Out 07/19/2013 12:34:57		sy		Net	33520 lb
				Tons	16.76

Comments

WM WILL NOT BE RESPONSIBLE FOR ACCIDENTS FROM PULLING, PUSHING VEHICLES

Product	LD%	Qty	UDM	Rate	Fee	Amount	Origin
1 Cont Soil Sp. M.	100	16.76	Tons				CHEROKEE
2 TTE-TRANSPORTATION	100	16.76	Tons				CHEROKEE

Total Fees
 Total Ticket

404WM
 Driver's Signature





NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST		1. Generator's US EPA ID No. G A D 0 9 9 0 3 5 9 6 0	Manifest Doc No.	2. Page 1 of	TRUCK # N 242				
3. Generator's Mailing Address: LAFARGE ROAD MARKING, INC 2675 R N MARTIN ST EAST POINT, GA 30344		Generator's Site Address (if different than mailing):		WMNA	1861775				
4. Generator's Phone: 973-525-3916				B. State Generator's ID					
5. Transporter 1 Company Name: WASTE Management		6. US EPA ID Number		C. State Transporter's ID					
				D. Transporter's Phone					
7. Transporter 2 Company Name		8. US EPA ID Number		E. State Transporter's ID					
				F. Transporter's Phone					
9. Designated Facility Name and Site Address: PINE BLUFF LANDFILL 13809 E CHEROKEE RD BALL GROUND, GA 30107		10. US EPA ID Number		G. State Facility ID: 028-039D (SL)					
				H. State Facility Phone: 770-679-2936					
GENERATOR	11. Description of Waste Materials		12. Containers		13. Total Quantity	14. Unit Wt./Vol.	1. Misc Comments		
	a. NON-HAZARDOUS NON-RCRA IMPACTED SOILS/DEBRIS NON-DOT REGULATED		No.	Type					
	WM Profile # 401844GA						1676T		
	b. WM Profile #								
	c. WM Profile #								
d. WM Profile #									
J. Additional Descriptions for Materials Listed Above		K. Disposal Location							
		Cell				Level			
		Grid							
15. Special Handling Instructions and Additional Information									
Purchase Order #		EMERGENCY CONTACT / PHONE NO.							
16. GENERATOR'S CERTIFICATE: I hereby certify that the above described materials are not hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.									
Printed Name: Jake Meyer		Signature "On behalf of": <i>Jake Meyer</i> "LRM"				Month: 7	Day: 19	Year: 13	
TRANSPORTER	17. Transporter 1 Acknowledgement of Receipt of Materials		Signature: <i>Rick Ryan</i>				Month: 7	Day: 19	Year: 13
	Printed Name: Rick Ryan		Signature: <i>Rick Ryan</i>				Month: 7	Day: 19	Year: 13
	18. Transporter 2 Acknowledgement of Receipt of Materials		Signature:				Month:	Day:	Year:
FACILITY	19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.								
	20. Facility Owner or Operator Certification of receipt of non-hazardous materials covered by this manifest.		Signature: <i>[Signature]</i>				Month: 7	Day: 19	Year: 13
Printed Name: [Signature]		Signature: <i>[Signature]</i>				Month: 7	Day: 19	Year: 13	

White- TREATMENT/STORAGE/ DISPOSAL FACILITY COPY

Blue- GENERATOR #2 COPY

Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY

Gold- TRANSPORTER #1 COPY



Pine Bluff Landfill
 13809 E. Cherokee Drive
 Ball Ground, GA, 30107
 Ph: (770) 479-2936

Original
 Ticket# 1083534

Customer Name: BIG BEND ENVIRONMENTAL
 Ticket Date: 08/27/2013
 Payment Type: Credit Account
 Manual Ticket#:
 Hauling Ticket#:
 Route:
 State Waste Code:
 Manifest: 1861775
 Destination:
 PD:
 Profile: 40184160 (NON RCRA IMPACTED SOILS)
 Generator: 111-LAFARGE ROAD LAFARGE ROAD MARKING

Carrier: Newsome Trucking
 Vehicle#: N260
 Container:
 Driver:
 Check#:
 Billing #: 0102756
 Gen EPA ID: NR
 Grid:
 Newsome Trucking
 Volume

	Time	Scale	Operator	Inbound	Gross	
In	08/27/2013 12:40:02	Scale 2	sy		53320 lb	
Out	08/27/2013 12:40:02		sy		22820 lb	
					Net	30500 lb
					Tons	15.25

Comments: REPLACEMENT TICKET FOR TICKET # 1083533

WM WILL NOT BE RESPONSIBLE FOR ACCIDENTS FROM PULLING, PUSHING VEHICLES

Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1 Cont Soil Sp. M.	100	15.25	Tons				CHEROKEE
2 TTE-TRANSPORTATION	100	15.25	Tons				CHEROKEE

Total Fees
 Total Ticket

404WM
 Driver's Signature





NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST		1. Generator's US EPA ID No. G A D 0 9 9 0 3 5 9 6 0	Manifest Doc No	2. Page 1 of	TRK #1260		
3. Generator's Mailing Address: LAFARGE ROAD MARKING, INC 2675 R N MARTIN ST EAST POINT, GA 30344		Generator's Site Address (if different than mailing)		WMNA	1861776		
4. Generator's Phone 773-625-3916				B. State Generator's ID			
5. Transporter 1 Company Name WASTE Management		6. US EPA ID Number		C. State Transporter's ID			
				D. Transporter's Phone			
7. Transporter 2 Company Name		8. US EPA ID Number		E. State Transporter's ID			
				F. Transporter's Phone			
9. Designated Facility Name and Site Address PINE BLUFF LANDFILL 13809 E CHEROKEE RD BALL GROUND, GA 30107		10. US EPA ID Number		G. State Facility ID 028-039D (SL)			
				H. State Facility Phone 770-479-2936			
GENERATOR	11. Description of Waste Materials		12. Containers		13. Total Quantity	14. Unit Wt./Vol.	1. Misc. Comments
	a. NON-HAZARDOUS NON-PCRA IMPACTED SOILS/DEBRIS NON-DOT REGULATED		No	Type			
	WM Profile # 401844GA						
	b.						
	WM Profile #						
	c.						
WM Profile #							
d.							
WM Profile #							
J. Additional Descriptions for Materials Listed Above			K. Disposal Location				
			Cell			Level	
			Grid				
15. Special Handling Instructions and Additional Information							
Purchase Order #				EMERGENCY CONTACT / PHONE NO.			
16. GENERATOR'S CERTIFICATE I hereby certify that the above-described materials are not hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.							
Printed Name Daniel Hens		Signature "On behalf of" Paul Hammer			Month 8	Day 27	Year 13
17. Transporter 1 Acknowledgement of Receipt of Materials							
Printed Name PAUL HASTINGS		Signature Paul Hastings			Month 8	Day 27	Year 13
18. Transporter 2 Acknowledgement of Receipt of Materials							
Printed Name		Signature			Month	Day	Year
19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.							
20. Facility Owner or Operator Certification of receipt of non-hazardous materials covered by this manifest.							
Printed Name Stonewall		Signature Stonewall			Month 8	Day 27	Year 13

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY

Blue- GENERATOR #2 COPY

Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY

Gold- TRANSPORTER #1 COPY



Pine Bluff Landfill
 13809 E. Cherokee Drive
 Ball Ground, GA, 30107
 Ph: (770) 479-2936

Original
 Ticket# 1083729

Customer Name BIG BEND ENVIRONME Carrier Newsome Trucking Newsome Trucking
 Ticket Date 08/28/2013 Vehicle# N238 Volume
 Payment Type Credit Account Container
 Manual Ticket# Driver
 Hauling Ticket# Check#
 Route Billing # 0102756
 State Waste Code Gen EPA ID NR
 Manifest 1881777 Grid
 Destination
 PO
 Profile 401844GA (NON RCRA SIMPACTED SOILS)
 Generator 111 LAFARGE ROAD LAFARGE ROAD MARKING

Time	Scale	Operator	Inbound	Gross	40320 lb
In 08/28/2013 10:40:53	Scale 2	VDANIEL		Tare	21820 lb
Out 08/28/2013 10:40:53		VDANIEL		Net	18500 lb
				Tons	9.25

Comments

WM WILL NOT BE RESPONSIBLE FOR ACCIDENTS FROM PULLING, PUSHING VEHICLES

Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1 Cont Soil Spill	100	9.25	Tons				FULTON
2 TTE-TRANSPORTATION	100	9.25	Tons				FULTON

Total Fees
 Total Ticket

404WM

Driver's Signature





NON-HAZARDOUS MANIFEST

1. Generator's US EPA ID No G A D 0 9 9 0 3 5 9 6 0		Manifest Doc No		2. Page 1 of		
3. Generator's Mailing Address LAFARGE ROAD MARKING, NC 2675 R N MARTIN ST EAST POINT, GA 30344		Generator's Site Address (if different than mailing)		WMNA 1861777 B. State Generator's ID		
4. Generator's Phone 873-825-3916		6. US EPA ID Number		C. State Transporter's ID		
5. Transporter 1 Company Name WASTE Management		8. US EPA ID Number		D. Transporter's Phone		
7. Transporter 2 Company Name		10. US EPA ID Number		E. State Transporter's ID		
9. Designated Facility Name and Site Address PINE BLUFF LANDFILL 13809 E CHEROKEE RD BALL GROUND, GA 30107				F. Transporter's Phone		
				G. State Facility ID 028-039D (SL)		
				H. State Facility Phone 770-479-2936		
GENERATOR	11. Description of Waste Materials a. NON-HAZARDOUS NON-RCRA IMPACTED SOILS/DEBRIS NON-DOT REGULATED		12. Containers No Type		13. Total Quantity	
	WM File # 401844GA		9.25			
	b. WM Profile #					
	c. WM Profile #					
	d. WM Profile #					
J. Additional Descriptions for Materials Listed Above		K. Disposal Location				
		Cell		Level		
		Grid				
15. Special Handling Instructions and Additional Information						
Purchase Order #			EMERGENCY CONTACT / PHONE NO.			
16. GENERATOR'S CERTIFICATE I hereby certify that the above-described materials are not hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations						
Printed Name Daniel Harris		Signature "On behalf of" <i>Daniel Harris</i>		Month 8	Day 28	Year 13
17. Transporter 1 Acknowledgement of Receipt of Materials		Printed Name Roger Lee		Signature <i>Roger Lee</i>		Month 08
						Day 28
						Year 13
18. Transporter 2 Acknowledgement of Receipt of Materials		Printed Name		Signature		Month
						Day
						Year
FACILITY	19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.					
	20. Facility Owner or Operator. Certification of receipt of non-hazardous materials covered by this manifest					
Printed Name V. Dine		Signature <i>V. Dine</i>		Month 8	Day 28	Year 13

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY

Blue- GENERATOR #2 COPY

Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY

Gold- TRANSPORTER #1 COPY



Pipe Bluff Landfill
 13809 E. Cherokee Drive
 Ball Ground, GA, 30107
 Ph: (770) 479-2936

Original
 Ticket# 1084044

Customer Name BIG BEND ENVIRONME Carrier Newsome Trucking Newsome Trucking
 Ticket Date 08/29/2013 Vehicle# n228 Volume
 Payment Type Credit Account Container
 Manual Ticket# Driver
 Hauling Ticket# Check#
 Route Billing # 0102756
 State Waste Code Gen EPA ID NR
 Manifest 1851778 Grid
 Destination
 PO
 Profile 401846 (NON RCRA SIMPACTED SOILS)
 Generator 111 LAFARGE ROAD LAFARGE ROAD MARKING

Time	Scale	Operator	Inbound	Gross	46500 lb
In 08/29/2013 14:44:58	Scale 2	sy		Tare	23740 lb
Out 08/29/2013 14:44:58		sy		Net	22760 lb
				Tons	11.38

Comments

WM WILL NOT BE RESPONSIBLE FOR ACCIDENTS FROM PULLING/PUSHING VEHICLES

Product	LDX	Qty	UOM	Rate	Fee	Amount	Origin
1 Cont Soil Sp. A.	100	11.38	Tons				CHEROKEE
2 TTE-TRANSPORTATION	100	11.38	Tons				CHEROKEE

Ronald
West

Total Fees
 Total Ticket

404VM Driver's Signature





NON-HAZARDOUS MANIFEST

1. Generator's US EPA ID No. G A D 0 9 9 0 3 5 9 6 0		Manifest Doc No.		2. Page 1 of		
3. Generator's Mailing Address: LAFARGE ROAD MARKING, PC 2675 R N MARTIN ST EAST POINT, GA 30344		Generator's Site Address (if different than mailing):		WMNA 1861778 B. State Generator's ID		
4. Generator's Phone 973-625-3916		6. US EPA ID Number		C. State Transporter's ID		
5. Transporter 1 Company Name WASTE Management		7. US EPA ID Number		D. Transporter's Phone		
7. Transporter 2 Company Name Newsome		8. US EPA ID Number		E. State Transporter's ID		
9. Designated Facility Name and Site Address PINE BLUFF LANDFILL 13809 E CHEROKEE RD BALL GROUND, GA 30107		10. US EPA ID Number		F. Transporter's Phone		
				G. State Facility ID 028-039D (SL)		
				H. State Facility Phone 770-479-2936		
GENERATOR	11. Description of Waste Materials		12. Containers		13. Total Quantity	
	a. NON-HAZARDOUS NON-PCRA IMPACTED SOILS/DEBRIS NON-DOT REGULATED		No. Type		14. Unit Wt./Vol.	
	WM Profile # 401844GA				11.38 T	
	b. WM Profile #					
	c. WM Profile #					
d. WM Profile #						
J. Additional Descriptions for Materials Listed Above		K. Disposal Location				
		Cell		Level		
		Grid				
15. Special Handling Instructions / Additional Information						
Purchase Order #			EMERGENCY CONTACT / PHONE NO.			
16. GENERATOR'S CERTIFICATE I hereby certify that the above-described materials are not hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations						
Printed Name Daniel Adams		Signature "On behalf of" Daniel Adams		Month Day Year 8 29 13		
TRANSPORTER	17. Transporter 1 Acknowledgement of Receipt of Materials		Printed Name Ronald West		Signature Ronald West	
					Month Day Year 8 28 13	
	18. Transporter 2 Acknowledgement of Receipt of Materials		Printed Name		Signature	
				Month Day Year		
FACILITY	19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.					
	20. Facility Owner or Operator Certification of receipt of non-hazardous materials covered by this manifest.					
Printed Name D. K. Shoukri		Signature D. K. Shoukri		Month Day Year 8-29-13		

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
 Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY



Pine Bluff Landfill
 13809 E. Cherokee Drive
 Ball Ground, GA, 30107
 Ph: (770) 479-2936

Original
 Ticket# 1087269

Customer Name BIG BEND ENV BIG BEND ENVIRONME Carrier Newsome Trucking Newsome Trucking
 Ticket Date 09/19/2013 Vehicle# n247 Volume
 Payment Type Credit Account Container
 Manual Ticket# Driver
 Hauling Ticket# Check#
 Route Billing # 0102756
 State Waste Code Gen EPA ID NR
 Manifest 1851773 Grid
 Destination
 PO
 Profile 401844GA (NON RCRA SIMPACTED SOILS)
 Generator 111-LAFARGE ROAD LAFARGE ROAD MARKING

Time	Scale	Operator	Inbound	Gross	62900 lb
In 09/19/2013 12:30:38	Scale 2	VDANIEL		Tare	23620 lb
Out 09/19/2013 12:30:38		VDANIEL		Net	39280 lb
				Tons	19.64

Comments

WM WILL NOT BE RESPONSIBLE FOR ACCIDENTS FROM PULLING, PUSHING VEHICLES

Product	LDX	Qty	UOM	Rate	Fee	Amount	Origin
1 Cont Soil Sp. W.	100	19.64	Tons				FULTON
2 TTE-TRANSPORTATION	100	19.64	Tons				FULTON

Total Fees
 Total Ticket

404WM

Driver's Signature





NON-HAZARDOUS MANIFEST

1. Generator's US EPA ID No.

Manifest Doc No.

2. Page 1 of

NON-HAZARDOUS MANIFEST

G A D 0 9 9 0 3 5 9 6 0

Tik # 247

3. Generator's Mailing Address:
LAFARGE ROAD MARKING, INC
2675 R N MARTIN ST
EAST POINT, GA 30344

Generator's Site Address (if different than mailing)

WMNA

1861779

B. State-Generator's ID

4. Generator's Phone: 973-525-3916

5. Transporter 1 Company Name

WASTE Management

6. US EPA ID Number

C. State Transporter's ID

D. Transporter's Phone

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address

PINE BLUFF LANDFILL
13809 E CHEROKEE RD
BALL GROUND, GA 30107

10. US EPA ID Number

G. State Facility ID 028-039D (SL)

H. State Facility Phone 770-479-2936

GENERATOR

11. Description of Waste Materials

a. NON-HAZARDOUS NON-H-ORA IMPACTED SOILS/DEBRIS NON-DOT REGULATED

WM Profile # 401844GA

b.

WM Profile #

c.

WM Profile #

d.

WM Profile #

1. Additional Descriptions for Materials Listed Above

K. Disposal Location

Cell

Grid

Level

15. Special Handling Instructions and Additional Information

Purchase Order #

EMERGENCY CONTACT / PHONE NO.

16. GENERATOR'S CERTIFICATE

I hereby certify that the above-described materials are not hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name

Daniel Harmon

Signature "On behalf of"

Daniel Harmon

Month

Day

Year

9

19

13

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name

Cindy Johnson

Signature

Cindy Johnson

Month

Day

Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name

Signature

Month

Day

Year

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above-listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator Certification of receipt of non-hazardous materials covered by this manifest

Printed Name

Daniel

Signature

Daniel

Month

Day

Year

7

11

13

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY

Blue- GENERATOR #2 COPY

Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY

Gold- TRANSPORTER #1 COPY



Pine Bluff Landfill
 13809 E. Cherokee Drive
 Ball Ground, GA, 30107
 Ph: (770) 479-2936

Original
 Ticket# 1087295

Customer Name BIG BEND ENV BIG BEND ENVIRONME Carrier Newsome Trucking Newsome Trucking
 Ticket Date 09/19/2013 Vehicle# N223 Volume
 Payment Type Credit Account Container
 Manual Ticket# Driver
 Hauling Ticket# Check#
 Route Billing # 0102756
 State Waste Code Gen EPA ID NR
 Manifest 1861730 Grid
 Destination
 PO
 Profile 40184400 (NON RCRA SIMPACTED SOILS)
 Generator 111 LAFARGE ROAD LAFARGE ROAD MARKING

	Time	Scale	Operator	Inbound	Gross	55720 lb
In	09/19/2013 13:44:51	Scale 2	FJ		Tare	23420 lb
Out	09/19/2013 13:44:51		FJ		Net	32300 lb
					Tons	16.15

Comments

WM WILL NOT BE RESPONSIBLE FOR ACCIDENTS FROM PULLING, PUSHING VEHICLES

Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1 Cont Soil Sp. W-T	100	16.15	Tons				CLAYTON
2 TTE-TRANSPORTATION	100	16.15	Tons				CLAYTON

Total Fees
 Total Ticket

Shaw





NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST		Generator's US EPA ID No. GAD099035960	Manifest Doc No.	2 Page 1 of	TRK 223
3. Generator's Mailing Address LAFARGE ROAD MARKING, INC 2675 R N MARTIN ST EAST POINT, GA 30344		Generator's Site Address (if different than mailing)		WMNA	1861780
4. Generator's Phone 878-225-3916		B. State Generator's ID			
5. Transporter 1 Company Name WASTE Management - NAME # N223		6. US EPA ID Number		C. State Transporter's ID	
7. Transporter 2 Company Name		8. US EPA ID Number		D. Transporter's Phone	
9. Designated Facility Name and Site Address PINE BLUFF LANDFILL 13809 E CHEROKEE RD BALL GROUND, GA 30107		10. US EPA ID Number		E. State Transporter's ID	
				F. Transporter's Phone	
				G. State Facility ID 028-039D (SL)	
				H. State Facility Phone 770-479-2936	
GENERATOR	11. Description of Waste Materials		12. Containers		13. Total Quantity
	a. NON-HAZARDOUS NON-PHA IMPACTED SOILS/DEBRIS NON-DOT REGULATED		No.	Type	14. Unit Wt./Vol.
	WM Profile # 401844GA				16.15 T
	b. WM Profile #				
	c. WM Profile #				
d. WM Profile #					
J. Additional Descriptions for Materials Listed Above		K. Disposal Location			
		Cell			Level
		Grid			
15. Special Handling Instructions and Additional Information					
Purchase Order #		EMERGENCY CONTACT / PHONE NO:			
16. GENERATOR'S CERTIFICATE I hereby certify that the above-described materials are not hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations					
Printed Name Daniel Holmes		Signature "On behalf of" Daniel Holmes		Month	Day
				9	19
				13	
TRANSPORTER	17. Transporter 1 Acknowledgment of Receipt of Materials		Signature		Month
	Printed Name Shawn Oles		Shawn		Day
					09
				19	13
18. Transporter 2 Acknowledgment of Receipt of Materials		Signature		Month	Day
Printed Name					
FACILITY	19. Certificate of Final Treatment/Disposal I certify, on behalf of the above-listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.				
	20. Facility Owner or Operator Certification of receipt of non-hazardous materials covered by this manifest				
	Printed Name Williams		Signature Williams		Month
				Day	
				09	19
				13	

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Pink- FACILITY USE ONLY

Blue- GENERATOR #2 COPY
Gold- TRANSPORTER #1 COPY

Yellow- GENERATOR #1 COPY



Pine Bluff Landfill
 13809 E. Cherokee Drive
 Ball Ground, GA, 30107
 Ph: (770) 479-2936

Original
 Ticket# 1087297

Customer Name: BIRBENDEN IV BIG BEND ENVIRONME Carrier: Newsome Trucking Newsome Trucking
 Ticket Date: 09/19/2013 Vehicle#: n261 Volume
 Payment Type: Credit Account Container
 Manual Ticket# Driver
 Hauling Ticket# Check#
 Route: Billing # 0102756
 State Waste Code: Gen EPA ID NR
 Manifest: 186170 Grid
 Destination: PG
 Profile: 4018-460 (NON RCRA SIMPACTED SOILS)
 Generator: 111-LAFARGE ROAD LAFARGE ROAD MARKING

	Time	Scale	Operator	Inbound	Gross	61140 lb
In	09/19/2013 14:00:02	Scale 2	FJ		Tare	24920 lb
Out	09/19/2013 14:00:02		FJ		Net	36220 lb
					Tons	18.11

Comments

WM WILL NOT BE RESPONSIBLE FOR ACCIDENTS FROM PULLING, PUSHING VEHICLES

Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1 Cont Soil Sp. W. T	100	18.11	Tons				CLAYTON
2 TTE-TRANSPORTATION	100	18.11	Tons				CLAYTON

Total Fees
 Total Ticket





NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST		Generator's US EPA ID No G A D 0 9 9 0 3 5 9 6 0	Manifest Doc No	2. Page 1 of TIRH 261			
3. Generator's Mailing Address LAFARGE ROAD MARKING, NC 2675 R N MARTIN ST EAST POINT, GA 30344		Generator's Site Address (if different than mailing)		WMNA 1861781 B State Generator's ID			
4. Generator's Phone 973-825-3916	5. Transporter 1 Company Name WASTE Management <i>Waste Management</i>		6. US EPA ID Number	C. State Transporter's ID D. Transporter's Phone			
7. Transporter 2 Company Name		8. US EPA ID Number		E. State Transporter's ID F. Transporter's Phone			
9. Designated Facility Name and Site Address PINE BLUFF LANDFILL 13809 E CHEROKEE RD BALL GROUND, GA 30137		10. US EPA ID Number		G. State Facility ID 028-039D (SL) H. State Facility Phone 770-475-2536			
GENERATOR	11. Description of Waste Materials a. NON-HAZARDOUS NON-RCRA IMPACTED SOILS/DEBRIS NON-DOT REGULATED WM Profile # 401844GA		12. Containers No. Type	13. Total Quantity 18.11 T	14. Unit Wt./Vol.	1. Misc Comments	
	b. WM Profile #						
	c. WM Profile #						
	d. WM Profile #						
	J. Additional Descriptions for Materials Listed Above		K. Disposal Location				
			Cell		Level		
		Grid					
15. Special Handling Instructions and Additional Information							
Purchase Order #		EMERGENCY CONTACT / PHONE NO.					
16. GENERATOR'S CERTIFICATE I hereby certify that the above-described materials are not hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.							
Printed Name <i>Daniel James</i>		Signature "On behalf of" <i>Daniel James</i>		Month 9	Day 19	Year 13	
TRANSPORTER	17. Transporter 1 Acknowledgement of Receipt of Materials		Printed Name <i>Joshua Grant</i>		Signature <i>Joshua Grant</i>		
			Month 09	Day 19	Year 13		
	18. Transporter 2 Acknowledgement of Receipt of Materials		Printed Name		Signature		
		Month	Day	Year			
FACILITY	19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.						
	20. Facility Owner or Operator Certification of receipt of non-hazardous materials covered by this manifest						
Printed Name <i>James</i>		Signature <i>James</i>		Month 09	Day 19	Year 13	

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Pink- FACILITY USE ONLY

Blue- GENERATOR #2 COPY
Gold- TRANSPORTER #1 COPY

Yellow- GENERATOR #1 COPY



Pine Bluff Landfill
 13809 E. Cherokee Drive
 Ball Ground, GA, 30107
 Ph: (770) 479-2936

Original
 Ticket# 1087301

Customer Name BIG BEND ENVIRONMENTAL Carrier Newsome Trucking Newsome Trucking
 Ticket Date 09/19/2013 Vehicle# n216 Volume
 Payment Type Credit Account Container
 Manual Ticket# Driver
 Hauling Ticket# Check#
 Route Billing # 0102756
 State Waste Code Gen EPA ID NR
 Manifest 1-216-1 Grid
 Destination
 PO
 Profile 4019-6A (NON RCRA SIMPACTED SOILS)
 Generator 111-LAFARGE ROAD LAFARGE ROAD MARKING

	Time	Scale	Operator	Inbound	Gross	53240 lb
In	09/19/2013 14:08:19	Scale 2	FJ		Tare	21800 lb
Out	09/19/2013 14:08:19		FJ		Net	31440 lb
					Tons	15.72

Comments

WM WILL NOT BE RESPONSIBLE FOR ACCIDENTS FROM PULLING, PUSHING VEHICLES

Product	LDX	Qty	UOM	Rate	Fee	Amount	Origin
1 Cont Soil Sp. W.-T	100	15.72	Tons				CLAYTON
2 TTE-TRANSPORTATION	100	15.72	Tons				CLAYTON

Michael Kuhl

Total Fees
 Total Ticket



NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number

2. Page 1 of 2

3. Emergency Response Phone

4. Waste Tracking Number

#1 Tck # 216
1-216-1

5. Generator's Name and Mailing Address
Lafarge Road Marking, Inc.
2875 N Martin St
East Point, GA 30344

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name

U.S. EPA ID Number

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address

Pine Bluff Landfill
13809 E Cherokee Rd
Ball Ground, GA 30107

U.S. EPA ID Number

Facility's Phone:

9. Waste Shipping Name and Description

10. Containers

11. Total Quantity

12. Unit Wt./Vol.

No.

Type

1. Non-Haz Non-RCRA impacted soils Non-DOT Reg

15.72 T

2. Profile Number- 401844GA

3.

4.

13. Special Handling Instructions and Additional Information

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeor's Printed/Typed Name

Signature

Month Day Year

Daniel Harmon

Daniel Harmon

9 19 13

15. International Shipments

Import to U.S.

Export from U.S.

Port of entry/exit:

Transporter Signature (for exports only):

Date leaving U.S.:

16. Transporter Acknowledgment or Receipt of Materials

Transporter 1 Printed/Typed Name

Signature

Month Day Year

Michael Kirkland

Michael Kirkland

9 19 13

Transporter 2 Printed/Typed Name

Signature

Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space

Quantity

Type

Residue

Partial Rejection

Full Rejection

Manifest Reference Number:

U.S. EPA ID Number

17b. Alternate Facility (or Generator):

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name

Signature

Month Day Year

Jenkins

Jenkins

09 19 13



Pine Bluff Landfill
 13809 E. Cherokee Drive
 Ball Ground, GA, 30107
 Ph: (770) 479-2936

Original
 Ticket# 1087306

Customer Name BIG BEND ENV BIG BEND ENVIRONME Carrier Newsome Trucking Newsome Trucking
 Ticket Date 09/19/2013 Vehicle# N238 Volume
 Payment Type Credit Account Container
 Manual Ticket# Driver
 Hauling Ticket# Check#
 Route Billing # 0102756
 State Waste Code Gen EPA ID NR
 Manifest 2 Grid
 Destination
 PO
 Profile 40184465 (NON RCRA SIMPACTED SOILS)
 Generator 111-LAFARGE ROAD LAFARGE ROAD MARKING

	Time	Scale	Operator	Inbound	Gross	62360 lb
In	09/19/2013 14:19:07	Scale 2	FJ		Tare	21820 lb
Out	09/19/2013 14:19:07		FJ		Net	40540 lb
					Tons	20.27

Comments

WM WILL NOT BE RESPONSIBLE FOR ACCIDENTS FROM PULLING, PUSHING VEHICLES

Product	LDX	Qty	UOM	Rate	Fee	Amount	Origin
1 Cont Soil Sp. W-T	100	20.27	Tons				CLAYTON
2 TTE-TRANSPORTATION	100	20.27	Tons				CLAYTON

Total Fees
 Total Ticket



NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number

2. Page 1 of 3 3. Emergency Response Phone

4. Waste Tracking Number

#2 TRK# 238

5. Generator's Name and Mailing Address

Lafarge Road Marking, Inc.
2675 N Martin St
East Point, GA 30344

Generator's Site Address (if different than mailing address)

2-238

Generator's Phone:

6. Transporter 1 Company Name

NEWSOME

U.S. EPA ID Number

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address

Pine Bluff Landfill
13809 E Cherokee Rd
Ball Ground, GA 30107

U.S. EPA ID Number

Facility's Phone:

9. Waste Shipping Name and Description

10. Containers

No.

Type

11. Total Quantity

12. Unit Wt./Vol.

1.

Non-Haz Non-RCRA impacted soils Non-DOT Reg

20.27 T

2.

Profile Number- 401844GA

3.

4.

13. Special Handling Instructions and Additional Information

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeor's Printed/Typed Name

Signature

Month Day Year

Daniel Harris

Daniel Harris

9 19 13

15. International Shipments

Import to U.S.

Export from U.S.

Port of entry/exit:

Date leaving U.S.:

Transporter Signature (for exports only)

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

Signature

Month Day Year

Transporter 2 Printed/Typed Name

Signature

Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space

Quantity

Type

Residue

Partial Rejection

Full Rejection

Manifest Reference Number:

U.S. EPA ID Number

17b. Alternate Facility (or Generator)

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 7a

Printed/Typed Name

Signature

Month Day Year

Jenkins

Jenkins

09 19 13



Pine Bluff Landfill
 13809 E. Cherokee Drive
 Ball Ground, GA, 30107
 Ph: (770) 479-2936

Original
 Ticket# 1087309

Customer Name **BIG BEND ENVIRONMENTAL** Carrier **Newsome Trucking** Newsome Trucking
 Ticket Date **09/19/2013** Vehicle# **n246** Volume
 Payment Type **Credit Account** Container
 Manual Ticket# Driver
 Hauling Ticket# Check#
 Route Billing # **0102756**
 State Waste Code Gen EPA ID **NR**
 Manifest **3** Grid
 Destination
 PO
 Profile **401E44E3 (NON RCRA SIMPACTED SOILS)**
 Generator **111-LAFARGE ROAD LAFARGE ROAD MARKING**

Time	Scale	Operator	Inbound	Gross	58240 lb
In 09/19/2013 14:37:23	Scale 2	FJ		Tare	22800 lb
Out 09/19/2013 14:37:23		FJ		Net	35440 lb
				Tons	17.72

Comments

WM WILL NOT BE RESPONSIBLE FOR ACCIDENTS FROM PULLING, PUSHING VEHICLES

Product	LD%	Qty	UQM	Rate	Fee	Amount	Origin
1 Cont Soil Sp. A. T	100	17.72	Tons				CLAYTON
2 TTE-TRANSPORTATION	100	17.72	Tons				CLAYTON

Doug McPherson

Total Fees
 Total Ticket

404WM
 Driver's Signature



NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number

2. Page 1 of

3. Emergency Response Phone

4. Waste Tracking Number

#3 Tck # 246

5. Generator's Name and Mailing Address
Lafarge Road Marking, Inc.
2875 N Martin St
East Point, GA 30344

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name

NEWSME

U.S. EPA ID Number

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address

Pine Bluff Landfill
13809 E Cherokee Rd
Ball Ground, GA 30137

U.S. EPA ID Number

Facility's Phone:

9. Waste Shipping Name and Description

10. Containers

11. Total Quantity

12. Unit Wt./Vol.

No. Type

1.

Non-haz Non-RCRA impacted soils Non-DOT Reg

17.72 T

2.

Profile Number- 401844GA

3.

4.

13. Special Handling Instructions and Additional Information

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name

Signature

Month Day Year

Daniel Harris

Daniel Harris

9 19 13

15. International Shipments

Import to U.S.

Export from U.S.

Port of entry/exit:

Date leaving U.S.:

Transporter Signature (for exports only):

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

Signature

Month Day Year

DOUG M... BOVARS

Doug... Bovars

9 19 13

Transporter 2 Printed/Typed Name

Signature

Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space

Quantity

Type

Residue

Partial Rejection

Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)

U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

18. Designated Facility Owner or Operator Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name

Signature

Month Day Year

JEAN KINS

Jean Kins

09 19 13



Pine Bluff Landfill
 13809 E. Cherokee Drive
 Ball Ground, GA, 30107
 Ph: (770) 479-2936

Original
 Ticket# 1087317

Customer Name BIG BEND ENV BIG BEND ENVIRONME Carrier Newsome Trucking Newsome Trucking
 Ticket Date 09/19/2013 Vehicle# n247 Volume
 Payment Type Credit Account Container
 Manual Ticket# Driver
 Hauling Ticket# Check#
 Route Billing # 0102756
 State Waste Code Gen EPA ID NR
 Manifest 4 Grid
 Destination
 PG
 Profile 40184469 (NON RCRA SIMPACTED SOILS)
 Generator 111-LAFARGE ROAD LAFARGE ROAD MARKING

Time	Scale	Operator	Inbound	Gross	61760 lb
In 09/19/2013 15:01:34	Scale 2	FJ		Tare	23620 lb
Out 09/19/2013 15:01:34		FJ		Net	38140 lb
				Tons	19.07

Comments

WM WILL NOT BE RESPONSIBLE FOR ACCIDENTS FROM PULLING, PUSHING VEHICLES

Product	LD%	Qty	UDM	Rate	Fee	Amount	Origin
1 Cont Soil Sp. W. T	100	19.07	Tons				CLAYTON
2 TTE-TRANSPORTATION	100	19.07	Tons				CLAYTON

Total Fees
 Total Ticket

404WM

Driver's Signature



NON-HAZARDOUS
WASTE MANIFEST

1. Generator ID Number

Page 1 of

3. Emergency Response Phone

4. Waste Tracking Number

#4 Trk # V247

5. Generator's Name and Mailing Address
Lalarge Road Marking, Inc.
2875 N Martin St
East Point, GA 30344

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name

NauSme

U.S. EPA ID Number

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address
Pine Bluff Landfill

13809 E Cherokee Rd
Ball Ground, GA 30107

U.S. EPA ID Number

Facility's Phone:

9. Waste Shipping Name and Description

10. Containers

11. Total
Quantity

12. Unit
Wt./Vol.

1. Non-Haz Non-RCRA impacted soils Non-DOT Reg

No. Type

19.07 T

2. Profile Number - 401844GA

3.

4.

13. Special Handling Instructions and Additional Information

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offor's Printed/Typed Name

Signature

Month Day Year

Daniel Harms

Daniel Harms

9/19/13

15. International Shipments

Import to U.S.

Export from U.S.

Port of entry/exit:

Transporter Signature (for exports only):

Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

Signature

Month Day Year

C. Inman

C. Inman

9/19/13

Transporter 2 Printed/Typed Name

Signature

Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space

Quantity

Type

Residue

Partial Rejection

Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)

U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

18. Designated Facility Owner or Operator Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name

Signature

Month Day Year

Jenkins

Jenkins

09/19/13



Pine Bluff Landfill
 13809 E. Cherokee Drive
 Ball Ground, GA, 30107
 Ph: (770) 479-2936

Original
 Ticket# 1087330

Customer Name **BIG BEND ENVIRONME** Carrier **Newsome Trucking** Newsome Trucking
 Ticket Date **09/19/2013** Vehicle# **N215** Volume
 Payment Type **Credit Account** Container
 Manual Ticket#
 Hauling Ticket#
 Route
 State Waste Code
 Manifest **5** Billing # **0102756**
 Destination Gen EPA ID **NR**
 PO Grid
 Profile **4018-402 (NON RCRA SIMPACTED SOILS)**
 Generator **111-LAFARGE ROAD LAFARGE ROAD MARKING**

Time	Scale	Operator	Inbound	Gross	58980 lb
In 09/19/2013 15:38:55	Scale 1	FJ		Tare	24520 lb
Out 09/19/2013 15:38:56		FJ		Net	34460 lb
				Tons	17.23

Comments

WM WILL NOT BE RESPONSIBLE FOR ACCIDENTS FROM PULLING, PUSHING VEHICLES

Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1 Cont Soil Sp. W. T	100	17.23	Tons				CLAYTON
2 TTE-TRANSPORTATION	100	17.23	Tons				CLAYTON

Total Fees
 Total Ticket

404WM

Driver's Signature



NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number

2. Page 1 of

3. Emergency Response Phone

4. Waste Tracking Number

H5 TRK # 215

5. Generator's Name and Mailing Address
Lafarge Road Marking, Inc.
2875 N Martin St
East Point, GA 30344

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name

NEWSME

U.S. EPA ID Number

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address
Pine Bluff Landfill

13809 E Cherokee Rd
Ball Ground, GA 30107

U.S. EPA ID Number

Facility's Phone:

9. Waste Shipping Name and Description

10. Containers

No. Type

11. Total Quantity

12. Unit Wt./Vol.

1. **Non-Haz Non-RCRA impacted soils Non-DOT Reg**

17.23 T

2. **Profile Number- 401844GA**

3.

4.

13. Special Handling Instructions and Additional Information

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name

Signature

Month Day Year

Daniel Thomas

Daniel Thomas

9 19 13

15. International Shipments

Import to U.S.

Export from U.S.

Port of entry/exit:

Transporter Signature (for exports only):

Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

Signature

Month Day Year

Michael Young

Michael Young

9 19 13

Transporter 2 Printed/Typed Name

Signature

Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space

Quantity

Type

Residue

Partial Rejection

Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)

U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

18. Designated Facility Owner, or Operator: Certification of receipt of materials covered by the manifest except as noted in item 17a.

Printed/Typed Name

Signature

Month Day Year

Jen

Jen

09 19 13



Pine Bluff Landfill
 13809 E. Cherokee Drive
 Ball Ground, GA, 30107
 Ph: (770) 479-2936

Original
 Ticket# 1087434

Customer Name BIG BEND ENVIRONMENTAL CARRIER Newsome Trucking Newsome Trucking
 Ticket Date 09/20/2013 Vehicle# n261 Volume
 Payment Type Credit Account Container
 Manual Ticket# Driver
 Hauling Ticket# Check#
 Route Billing # 0102756
 State Waste Code Gen EPA ID NR
 Manifest 6 Grid
 Destination
 PO
 Profile 4018462 (NON RCRA SIMPACTED SOILS)
 Generator 111-LAFARGE ROAD LAFARGE ROAD MARKING

	Time	Scale	Operator	Inbound	Gross	
In	09/20/2013 09:47:02	Scale 2	FJ		Tare	60940 lb
Out	09/20/2013 09:47:02		FJ		Net	24920 lb
					Tons	36020 lb
						18.01

Comments

WM WILL NOT BE RESPONSIBLE FOR ACCIDENTS FROM PULLING, PUSHING VEHICLES

Product	LDX	Qty	UOM	Rate	Fee	Amount	Origin
1 Cont Soil Sp. M-T	100	18.01	Tons				CLAYTON
2 TTE-TRANSPORTATION	100	18.01	Tons				CLAYTON

Total Fees
 Total Ticket



**NON-HAZARDOUS
WASTE MANIFEST**

1. Generator ID Number

2. Page 1 of

3. Emergency Response Phone

4. Waste Tracking Number

46 TRK # 261

5. Generator's Name and Mailing Address
Larage Road Marking, Inc.
2675 N Martin St.
East Point, GA 30344
 Generator's Phone:

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name

NEWSON E

U.S. EPA ID Number

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address

Pine Bluff Landfill
13809 E Cherokee Rd
Ball Ground, GA 30107
 Facility's Phone:

U.S. EPA ID Number

9. Waste Shipping Name and Description

10. Containers

11. Total
Quantity

12. Unit
Wt./Vol.

No. Type

1. **Non-Haz Non-RCRA impacted soils Non-DOT Reg**

18.01 T

2. **Profile Number: 401844GA**

3.

4.

13. Special Handling Instructions and Additional Information

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeor's Printed/Typed Name

Daniel Harris

Signature

Daniel Harris

Month Day Year

9 20 13

15. International Shipments

Import to U.S.

Export from U.S.

Port of entry/exit:

Transporter Signature (for exports only):

Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

Josh O'Bryen

Signature

Josh O'Bryen

Month Day Year

09 20 13

Transporter 2 Printed/Typed Name

Signature

Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space

Quantity

Type

Residue

Partial Rejection

Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)

U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

18. Designated Facility Owner or Operator Certification of receipt of materials covered by the manifest except as noted in item 17a

Printed/Typed Name

Jenkins

Signature

Josh

Month Day Year

09 20 13



Pine Bluff Landfill
 13809 E. Cherokee Drive
 Ball Ground, GA, 30107
 Ph: (770) 479-2936

Original
 Ticket# 1087439

Customer Name: BIG BEND ENV BIG BEND ENVIRONME Carrier: Newsome Trucking Newsome Trucking
 Ticket Date: 09/20/2013 Vehicle#: n228 Volume
 Payment Type: Credit Account Container
 Manual Ticket# Driver
 Hauling Ticket# Check#
 Route: Billing # 0102756
 State Waste Code: Gen EPA ID NR
 Manifest: 7 Grid
 Destination:
 PO:
 Profile: 40184464 (NON RCRA SIMPACTED SOILS)
 Generator: 1112 AFFERDAD LAFARGE ROAD MARKING

Time	Scale	Operator	Inbound	Gross	57960 lb
In 09/20/2013 09:55:06	Scale 1	FJ		Tare	23740 lb
Out 09/20/2013 09:55:06		FJ		Net	34220 lb
				Tons	17.11

Comments

WM WILL NOT BE RESPONSIBLE FOR ACCIDENTS FROM PULLING, PUSHING VEHICLES

Product	LDX	Qty	UCM	Rate	Fee	Amount	Origin
1 Cont Soil Sp. w. T	100	17.11	Tons				CLAYTON
2 TTE-TRANSPORTATION	100	17.11	Tons				CLAYTON

Donald West

Total Fees
 Total Ticket

404WM

Driver's Signature



**NON-HAZARDOUS
WASTE MANIFEST**

1. Generator Docket Number

2. Page 1 of

3. Emergency Response Phone

4. Waste Tracking Number

#7 TRK# 228

5. Generator's Name and Mailing Address

Larage Road Marking, Inc.
2675 N Martin St
East Point, GA 30344

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name

NEWSOME

U.S. EPA ID Number

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address

Pine Bluff Landfill
13809 E Cherokee Rd
Ball Ground, GA 30107

U.S. EPA ID Number

Facility's Phone:

9. Waste Shipping Name and Description

10. Containers

No. Type

11. Total
Quantity

12. Unit
Wt/Vol.

1. Non-Haz Non-RCRA impacted soils Non-DOT Reg

17.11 T

2. Profile Number - 401844GA

3.

4.

13. Special Handling Instructions and Additional Information

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeor's Printed/Typed Name

Signature

Month Day Year

Daniel Hance

Daniel Hance

9 20 13

15. International Shipments

Import to U.S.

Export from U.S.

Port of entry/exit:

Date leaving U.S.:

Transporter Signature (for exports only):

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

Signature

Month Day Year

RONALD WEST

Ronald West

9 20 13

Transporter 2 Printed/Typed Name

Signature

Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space:

Quantity

Type

Residue

Partial Rejection

Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)

U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

18. Designated Facility Owner or Operator Certification of receipt of materials covered by the manifest except as noted in item 17a

Printed/Typed Name

Signature

Month Day Year

Starkins

Starkins

09 20 13



Pine Bluff Landfill
 13809 E. Cherokee Drive
 Ball Ground, GA, 30107
 Ph: (770) 479-2936

Original
 Ticket# 1007698

Customer Name BIG BEND ENV. BIG BEND ENVIRONME Carrier Newsome Trucking Newsome Trucking
 Ticket Date 09/23/2013 Vehicle# n261 Volume
 Payment Type Credit Account Container
 Manual Ticket# Driver
 Hauling Ticket# Check#
 Route Billing # 0102756
 State Waste Code Gen EPA ID NR
 Manifest 8 Grid
 Destination
 PQ
 Profile 4018+402 (NON RCRA SIMPACTED SOILS)
 Generator 111-LAFARGE ROAD LAFARGE ROAD MARKING

Time	Scale	Operator	Inbound	Gross	50240 lb
In 09/23/2013 12:28:52	Scale 1	sy		Tare	24920 lb
Out 09/23/2013 12:28:52		sy		Net	25320 lb
				Tons	12.66

Comments

WM WILL NOT BE RESPONSIBLE FOR ACCIDENTS FROM PULLING, PUSHING VEHICLES

Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1 Cont Soil Sp. W. T	100	12.66	Tons				CHEROKEE
2 TTE-TRANSPORTATION	100	12.66	Tons				CHEROKEE

Total Fees
 Total Ticket

404WM
 Driver's Signature



NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number

2. Page 1 of

3. Emergency Response Phone

4. Waste Tracking Number

#8 TRK# 261

5. Generator's Name and Mailing Address
Lafarge Road Molding, Inc.
2875 N Martin St
East Point, GA 30344

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name

U.S. EPA ID Number

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address
Pine Bluff Landfill
13809 E Cherokee Rd
Bell Ground, GA 30107

U.S. EPA ID Number

Facility's Phone:

9. Waste Shipping Name and Description

10. Containers

11. Total Quantity

12. Unit Wt./Vol.

No. Type

1. Non-haz Non-RCRA impacted soils Non-DOT Reg

12.66T

2. Profile Number- 401844GA

3.

4.

13. Special Handling Instructions and Additional Information

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offoror's Printed/Typed Name

Signature

Month Day Year

Daniel Hanes

Daniel Hanes

9 23 13

15. International Shipments

Import to U.S.

Export from U.S.

Port of entry/exit:

Date leaving U.S.:

Transporter Signature (for exports only)

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

Signature

Month Day Year

Josh OBryant

Josh OBryant

9 23 13

Transporter 2 Printed/Typed Name

Signature

Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space

Quantity

Type

Residue

Partial Rejection

Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)

U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

18. Designated Facility Owner or Operator Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name

Signature

Month Day Year

S. S. Suenko

S. S. Suenko

9 23 13

GENERATOR

TRANSPORTER INT'L

DESIGNATED FACILITY

25154

CWM1

3/C

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number GAD088935960		2. Page 1 of 1		3. Emergency Response Phone (800)424-9300		4. Manifest Tracking Number 002164549 GBF				
5. Generator's Name and Mailing Address LAFARGE ROAD MARKING 2675 R N MARTIN ST EAST POINT GA 30344										Generator's Site Address (if different than mailing address)		
Generator's Phone: (973)825-3816												
6. Transporter 1 Company Name Bobbie D. Wood								U.S. EPA ID Number ALD-06738891				
7. Transporter 2 Company Name								U.S. EPA ID Number				
8. Designated Facility Name and Site Address CHEMICAL WASTE MANAGEMENT, INC. HIGHWAY 17 NORTH, MILE MARKER 163 EMELLE AL 35459								U.S. EPA ID Number ALD000622464				
Facility's Phone: (205)652-9721												
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes						
		No.	Type									
X	1. RQ, NA3077, HAZARDOUS WASTE, SOLID, N.O.S., 9, III (D008) GA617482	1	CM	34,000	lbs	D008						
	2.											
	3.											
	4.											
14. Special Handling Instructions and Additional Information: 1. GA617482 ERG-171 ERI PROVIDER: CHEMTREC (CONTRACT CCN24117)												
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.												
Generator's/Offoror's Printed/Typed Name Joe McCarthy, Pres								Signature <i>Joe McCarthy</i>		Month 7	Day 16	Year 13
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____												
17. Transporter Acknowledgment of Receipt of Materials												
Transporter 1 Printed/Typed Name X Stephen Dowling								Signature <i>Stephen Dowling</i>		Month 7	Day 16	Year 13
Transporter 2 Printed/Typed Name								Signature		Month	Day	Year
18. Discrepancy												
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection												
Manifest Reference Number: _____												
18b. Alternate Facility (or Generator)								U.S. EPA ID Number				
Facility's Phone: _____												
18c. Signature of Alternate Facility (or Generator)								Month		Day	Year	
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)												
1. H132			2.			3.			4.			
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a												
Printed/Typed Name Judy Bankhead								Signature <i>Judy Bankhead</i>		Month 07	Day 22	Year 13

58

K28

CWN, INC. - EBELLE

***** Receipt # 492726 *****

Page - 1

Date/Time In 7/22/13 8:44

Load Type Rolloff

Federal EPA ID ALD057139891

Transporter ROBBIE D WOOD INC
DOLCHITE

AL

** WEIGHT SUMMARY **

Gross --78946.89

Tare 74420.00

Net 40146.00

Adj. Net 40146.00

Adj. Net 34280.00

Truck Number 284 Trailer/Contar #1 25134 #2 #3

Receipt Doc	Document Profile	Profile Generator	Cst Cat	Total W DCS	Sched Federal EPA
Ln# Ln#	Number Sales	Invoice Log Container	# Code	Quan. Y Units	PCB Cat Waste Status
1 1	60216454958F	60617492	LAFARGE ROAD BARKING EAST POINT GA	1 CR 34882.89 P Pounds	1758 PE Check Restriction
Doc Seq # 1				ZNC	BIG BEND ENVIRONMENTAL SVCS P.O. 0251
				Scheduled Date 07/22/13 Time 07:31 1648916-1	

Federal Waste Codes 9308

>SIX OR <SIX DEBRIS (CIRCLE)

PREFILLED VAILT Y OR N (CIRCLE)

>SIX OR <SIX MAC 10% INSPECTION (CIRCLE)

BULK MATERIAL ONLY:

SAMPLED/INSPECTED

FREE LIQUIDS DETECTED?

YES / NO

SELECT MATERIAL/NON-SELECT MATERIAL

WIND DISPERSAL MATERIAL?

YES / NO

PHYSICAL DESCRIPTION OF WASTE:

SAMPLER/APPROVAL

SPOT SAMPLE:	B13-	PHYS. DESCRIPTION
RAD. SCREEN	POS NEG	
IGN. SCREEN	POS NEG	
H2O SOL.	S F PT/SOL	
H2O RXN/TEMP. INITIAL	NO RXN REACTS	
H2O RXN/TEMP. SWIR.	NO RXN REACTS	
ph (PAPER)		
CH SCREEN	+ - SULFIDE SCREEN + -	

ADDITIONAL ANALYTICAL REQ'D? Y N

DESCRIBE:

PCB CONC. (PPH)	SULFIDE (9030)	
XH2O BY KF	CYANIDE (9010C)	TAB WASTE Y N
PAINT FILTER TEST/ P F	SPEC. GRAVITY	HWZ CONC. PPH

COMMENTS: (SAFETY/OPERATIONAL)

COMPAT. TEST W/ OR RXN

ADD'L SPOT SAMPLE ATTACHED? Y N

DISPOSAL METHOD: S SP ST-3 ST-3/PT P-ST-3 P-ST-3/PT ST-5 ST-5/PT P-ST-5 S01-PTA B-PIN OTHER

P-ST-5/PT ST-8 ST-8/PT KIC MAC (MAC INSPECT) F INC SP-VS PCB-MAC P-MAC

P-ST-8 P-ST-8/PT VS-3 VS-5 VS-8

INDICATOR PARAMETER WILL BE CIRCLED

B-MAC LOADS REQUIRING INSPECTION THAT ARE FOUND TO BE LESS THAN SIX MUST BE RETURNED TO LAR AND PLACED ON HOLD.

RELEASED FOR DISPOSAL BY: DATE:

1132

71 110. # 3177

Please print or type. Form designed for use on elite (12-pitch) typewriter.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number GAD088935960	2. Page 1 of 1	3. Emergency Response Phone (800)424-9300	4. Manifest Tracking Number 002164550 GBF				
5. Generator's Name and Mailing Address LAFARGE ROAD MARKING 2675 R N MARTIN ST EAST POINT GA 30344				Generator's Site Address (if different than mailing address)					
Generator's Phone: (973)625-3916				U.S. EPA ID Number ALD0067132891					
6. Transporter 1 Company Name Robbie D. Wood				U.S. EPA ID Number					
7. Transporter 2 Company Name				U.S. EPA ID Number					
8. Designated Facility Name and Site Address CHEMICAL WASTE MANAGEMENT, INC. HIGHWAY 17 NORTH, MILE MARKER 163 EMELLE AL 35459				U.S. EPA ID Number ALD000622464					
Facility's Phone: (205)652-9721									
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))			10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
				No.	Type				
X	1. RQ, NA3077, HAZARDOUS WASTE, SOLID, N.O.S., 9, III (D008) GA617492			1	Dr	22.26	T	D008	
	2.					1000			
	3.								
	4.								
14. Special Handling Instructions and Additional Information 1. GA617492 ERG-171 ERI PROVIDER: CHEMTREC (CONTRACT CCN24117)									
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.									
Generator's/Offoror's Printed/Typed Name Joe McCarthy, Pres. on behalf of LRM, Inc.				Signature <i>[Signature]</i>			Month 7	Day 29	Year 13
16. International Shipments: <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____									
17. Transporter Acknowledgment of Receipt of Materials									
Transporter 1 Printed/Typed Name Earnest Winston				Signature <i>[Signature]</i>			Month 7	Day 29	Year 13
Transporter 2 Printed/Typed Name				Signature			Month	Day	Year
18. Discrepancy									
18a. Discrepancy Indication Space <input checked="" type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection									
corrected wt per Joe McCarthy 08/06/13									
18b. Alternate Facility (or Generator)						U.S. EPA ID Number			
Facility's Phone:									
18c. Signature of Alternate Facility (or Generator)						Month	Day	Year	
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)									
1. H132			2.			3.			
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a									
Printed/Typed Name Judy Bankhead				Signature <i>[Signature]</i>			Month 10	Day 30	Year 13

60

123

CNH, INC. - EMELLE

***** Receipt # 452265 *****

Page - 1

Date/Time In 7/30/13 7:29

Load Type Rolloff

Federal EPA ID ALD867130891

Transporter ROBBIE O WOOD INC

DOLomite AL

** WEIGHT SUMMARY **
 Gross 73048.00
 Tare 28520.00
 Net 44528.00
 Adj. Net 44520.00
 Adj. Tare .00

Truck Number 235 Trailer/Contar #1 1135 #2 #3

22.26 Dns

Rept Dec	Document	Profile	Profile	Generator	Cat	Cat	Total	V	DCS	Sched	Federal	EPA	ADEN #	
Lat	Lat	Number	Sales	Invoicing	Customer	#	Code	Quan.	V	Units	PCB	Cat	Waste	Status
1	1	822164559GBF	84617492	LAFARGE ROAD MARKING	1	CH	28.00	T	Tons	Y750	PG	Check	Restriction	673115-0205
EAST POINT GA SUBCC Value - NO 86/28/14 Doc Seq # 1 ENE BIG BEND ENVIRONMENTAL SVCS P.O. Box Scheduled Date 87/30/13 Time 10:01 1009485-1														

Federal Waste Codes D008

>SIX OR <SIX DEBRIS (CIRCLE)

PREFILLED VAULT Y OR N (CIRCLE)

>SIX OR <SIX MAC 10% INSPECTION (CIRCLE)

HAZEL MATERIAL ONLY:

SAMPLED/INSPECTED

FREE LIQUIDS DETECTED?

YES / NO

SELECT MATERIAL/NO-SELECT MATERIAL

WIND DISPERSAL MATERIAL?

YES / NO

PHYSICAL DESCRIPTION OF WASTE:

SAMPLER/APPROVAL

SPOT SAMPLE:	B13-	PHYS. DESCRIPTION
RAD. SCREEN	POS NEG	
IGH. SCREEN	POS NEG	
H2O SOL.	S F PT/SOL	
H2O RXN/TEMP.	INITIAL NO RXN REACTS	
H2O RXN/TEMP.	SMTH. NO RXN REACTS	
ph (PAPER)		
CH SCREEN	+ - SULFIDE SCREEN + -	

ADDITIONAL ANALYTICAL REQ'D? Y N

DESCRIBE:

PCB CONC. (PPH)	SULFIDE (9030)	
PHEN BY KF	CYANIDE (9010C)	TAG WASTE Y N
PAINT FILTER TEST/ P F	SPEC. GRAVITY	HQZ CONC. PPH

COMMENTS: (SAFETY/OPERATIONAL)

COMPAT. TEST W/ OR RXN

ADD'L SPOT SAMPLE ATTACHED? Y N

DISPOSAL METHOD: S SP ST-3 ST-3/P? P-ST-3 P-ST-3/P? ST-5 ST-5/PT P-ST-5 S01-PTA B-PIN OTHER

P-ST-5/PT ST-8 ST-8/PT NIC MAC (MAC INSPECT) F INC SP-VS PCB-MAC P-MAC

P-ST-8 P-ST-8/PT VS-3 VS-5 VS-8

INDICATOR PARAMETER WILL BE CIRCLED

B-MAC LOADS REQUIRING INSPECTION THAT ARE FOUND TO BE LESS THAN SIX MUST

BE RETURNED TO LAB AND PLACED ON HOLD.

RELEASED FOR DISPOSAL BY: DATE:

0.1143

TI 2

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number GAD088935960	2. Page 1 of 1	3. Emergency Response Phone (800)424-9300	4. Manifest Tracking Number 002164551 GBF		
5. Generator's Name and Mailing Address LAFARGE ROAD MARKING 2675 R N MARTIN ST EAST POINT GA 30344				Generator's Site Address (if different than mailing address)			
Generator's Phone (973)625-3916				U.S. EPA ID Number ALD0067138291			
6. Transporter 1 Company Name Robbie D. Wood				U.S. EPA ID Number			
7. Transporter 2 Company Name				U.S. EPA ID Number			
8. Designated Facility Name and Site Address CHEMICAL WASTE MANAGEMENT, INC. HIGHWAY 17 NORTH, MILE MARKER 163 EMELLE AL 35458				U.S. EPA ID Number ALD000622464			
Facility's Phone (205)652-9721							
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
		No.	Type				
X	1. RQ, NA3077, HAZARDOUS WASTE, SOLID, N.O.S., 9, III (D008) GA617492	1	DT	22.77	T	D008	
	2.						
	3.						
	4.						
14. Special Handling Instructions and Additional Information 1. GA617492 ERG-171 ERI PROVIDER: CHEMTREC (CONTRACT CCN24117)							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offeror's Printed/Typed Name Joe McCarthy, Pres				Signature <i>Joe McCarthy</i>		Month Day Year 7 30 13	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____							
17. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name Ernest Winston				Signature <i>Ernest Winston</i>		Month Day Year 7 30 13	
Transporter 2 Printed/Typed Name				Signature		Month Day Year	
18. Discrepancy							
18a. Discrepancy Indication Space <input checked="" type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection							
corrected wt per Joe McCarthy 08/06/13							
18b. Alternate Facility (or Generator) U.S. EPA ID Number							
Facility's Phone:							
18c. Signature of Alternate Facility (or Generator) Month Day Year							
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. H132		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name Mal Alexander				Signature <i>Mal Alexander</i>		Month Day Year 7 31 13	

(69)

K255

CWH, INC. - EBELLE

***** Receipt # 432914 *****

Page - 1

Date/Time In 7/31/13 11:02

Load Type Killoff

Federal EPA ID AL0867120091

** WEIGHT SUMMARY **

Gross 73562.00

Transporter ROBBIE D VOOS INC

DOLPHITE

AL

Tare 28000.00

Net 45562.00

Net 45540.00

Net 45540.00

Truck Number 283

Trailer/Container #1 1143

#2

#3

22.77 Tons

Sept	Doc	Profile	Profile	Generator	Cat	Cat	Total	Y	DCS	Sched	Federal	EPA		
Lab	Lab	Number	Sales	Invoicing	Customer	#	Code	Gram.	Y	Units	PCB	Cat	Waste	Status
1	1	0021645516BF	H4617492	LAFARGE ROAD MARKING	EAST POINT GA	1	DT	28.00	T	Tons	Y55	PC	Check	Restriction

ARJG #

873115-0089

SUBC Value - NO 06/28/14

Inc Seq # 1 ERE BID BOND ENVIRONMENTAL SVCS P.O. Box

Scheduled Date 07/31/13 Time 10:01 1009392-1

Federal Waste Codes 2068

>S11 OR <S11 DERRIS (CIRCLE)

PREFILLED VAULT Y OR N (CIRCLE)

>S1Y OR <S1Y HAC 10X INSPECTION (CIRCLE)

MULK MATERIAL ONLY:

SAMPLED/INSPECTED

FREE LIQUIDS DETECTED?

YES / NO

SELECT MATERIAL/NO-SELECT MATERIAL

WIND DISPERSAL MATERIAL?

YES / NO

PHYSICAL DESCRIPTION OF WASTE:

SAMPLER/APPROVAL

SPOT SAMPLE:	B13-	PHYS. DESCRIPTION
BAD SCREEN	POS NEG	
IGH SCREEN	POS NEG	
H2O SOL.	S F PT/SOL	
H2O RXN/TEMP.	INITIAL NO RXN REACTS	
H2O RXN/TEMP.	SMPL. NO RXN REACTS	
ph (PAPER)		
CH SCREEN	+ - SULFIDE SCREEN + -	

ADDITIONAL ANALYTICAL REQ'D? Y N

DESCRIBE:

PCB CONC. (PPB)	SULFIDE (9030)	
NI20 BT XP	CYANIDE (9010C)	TAB WASTE Y N
PAINT FILTER TEST/ P F	SPEC. GRAVITY	HWZ CONC. PPM

COMMENTS: (SAFETY/OPERATIONAL)

COMPAT. TEST W/ OR RXN

ADD'L SPOT SAMPLE ATTACHED? Y N

DISPOSAL METHOD: S SF ST-3 ST-3/PT P-ST-3 F-ST-3/PT ST-5 ST-5/PT P-ST-5 S01-PTA B-PIN OTHER

P-ST-3/PT ST-8 ST-8/PT HIC HAC (HAC INSPECT) F HIC SP-75 PCB-HAC P-HAC

P-ST-8 P-ST-8/PT VS-3 VS-5 VS-8

INDICATOR PARAMETER WILL BE CIRCLED

B-HAC LOADS REQUIRING INSPECTION THAT ARE FOUND TO BE LESS THAN 51X MUST BE RETURNED TO LAB AND PLACED ON HOLD.

RELEASED FOR DISPOSAL BY: DATE:

01119

#3 TRK #5174 CWMI
Form Approved. OMB No. 2050-0039

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number GAD068935960	2. Page 1 of 1	3. Emergency Response Phone (800)424-9300	4. Manifest Tracking Number 002164552 GBF							
5. Generator's Name and Mailing Address LAFARGE ROAD MARKING 2675 R N MARTIN ST EAST POINT GA 30344												
Generator's Site Address (if different than mailing address)												
Generator's Phone: (973)625-3916												
6. Transporter 1 Company Name Robbie D Wood				U.S. EPA ID Number AL00707138891								
7. Transporter 2 Company Name				U.S. EPA ID Number								
8. Designated Facility Name and Site Address CHEMICAL WASTE MANAGEMENT, INC. HIGHWAY 17 NORTH, MILE MARKER 163 EMELLE AL 35459												
U.S. EPA ID Number ALD000622464												
Facility's Phone: (205)852-9721												
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes				
	X	1. RQ, NA3077, HAZARDOUS WASTE, SOLID, N.O.S., 9, III (D008)		No.	Type			D008				
		2. GA617492		1	DT	20T	T					
		3.										
		4.										
14. Special Handling Instructions and Additional Information 1. GA617492 ERG-171 ERI PROVIDER: CHEMTREC (CONTRACT CCN24117)												
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.												
Generator's/Offoror's Printed/Typed Name Joe McCarthy, Prep. on behalf of LRM, Inc.								Signature <i>Joe McCarthy</i>		Month 17	Day 31	Year 13
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____												
17. Transporter Acknowledgment of Receipt of Materials												
Transporter 1 Printed/Typed Name X Earnest Winston					Signature <i>Earnest Winston</i>			Month 3	Day 31	Year 13		
Transporter 2 Printed/Typed Name					Signature			Month	Day	Year		
18. Discrepancy												
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection												
18b. Alternate Facility (or Generator) U.S. EPA ID Number												
Facility's Phone:												
18c. Signature of Alternate Facility (or Generator) Month Day Year												
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)												
1. H132		2.		3.		4.						
20. Designated Facility Owner or Operator. Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a												
Printed/Typed Name Judy Bankhead					Signature <i>Judy Bankhead</i>			Month 07	Day 31	Year 13		

(68)

CWH, INC. - EMELLE

***** Receipt # 492928 *****

Page - 1

Date/Time In 7/31/13 13:13

Load Type Dumps

Federal EPA ID AL0667130891

Transporter ROBBIE D WOOD INC

DOLONITE

AL

•• WEIGHT SUMMARY ••

Gross 74240.00

Tare 30120.00

Net 44120.00

Adj. 43840.00

Adj. Net 43840.00

21.93 tons

Truck Number 5174 Trailer/Contor #1 1119 #2 #3

Rept Doc	Docment	Profile	Profile	Generator	Cat	Cat	Total	W	DCS	Sched	Federal	EPA	ADEN #	
Lat	Lat	Number	Sales	Invoicing	Customer	#	Code	Quan.	#	Units	PCB	Cat	Waste	Status
1	1	0021645526SF	04617492	LAFARGE ROAD MARKING	1	DT	26.00	1	Tons	T950	P0	Check	Restriction	073115-0009

SUBCX Value - NO 06/20/14

Doc Seq # 1 RHE BIG BEND ENVIRONMENTAL SVCS P.O. Box

Federal Waste Codes 0000

>S1X OR <S1X DENNIS (CIRCLE)

PREFILLED VAULT Y OR N (CIRCLE)

>S1X OR <S1X MAC 10X INSPECTOR (CIRCLE)

BULK MATERIAL ONLY:

SAMPLED/INSPECTED

FREE LIQUIDS DETECTED?

YES / NO

SELECT MATERIAL/NON-SELECT MATERIAL

WIND DISPERSAL MATERIAL?

YES / NO

PHYSICAL DESCRIPTION OF WASTE:

SAMPLER/APPROVAL

SPOT SAMPLE: | PHYS. DESCRIPTION

RAD. SCREEN |

IGN. SCREEN |

H2O SOL. PT/SOL. |

H2O RXN/TEMP. INITIAL NO RXN REACTS |

H2O RXN/TEMP. 5MIN. NO RXN REACTS |

ph (PAPER) |

CM SCREEN SULFIDE SCREEN |

ADDITIONAL ANALYTICAL REQ'D? Y N

DESCRIBE:

PCB CONC. (PPM) SULFIDE (9030)

XR20 BY KF CYANIDE (9010C) TAN WASTE Y N

PAINT FILTERED TEST/ P F SPEC. GRAVITY DRZ CONC. PPM

COMMENTS: (SAFETY/OPERATIONAL)

COMPAT. TEST W/ OK RXN

ADD'L SPOT SAMPLE ATTACHED? Y N

DISPOSAL METHOD: S SP ST-3 ST-3/PT P-ST-3 P-ST-3/PT ST-5 ST-5/PT P-ST-5 S01-PTA B-PTA OTHER

P-ST-5/PT ST-6 ST-6/PT NIC MAC (MAC INSPECT) F INC SP-VS PCB-MAC P-MAC

P-ST-6 P-ST-6/PT VS-3 VS-5 VS-6

INDICATOR PARAMETER WILL BE CIRCLED

B-MAC LOADS REQUIRES INSPECTION THAT ARE FOUND TO BE LESS THAN 51X MUST BE RETURNED TO LAB AND PLACED ON HOLD.

RELEASED FOR DISPOSAL BY: DATE:

104 CIO M-077

#4 TRK# 1145

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number GAD088935860	2. Page 1 of 1	3. Emergency Response Phone (800)424-9300	4. Manifest Tracking Number 002164553 GBF		
5. Generator's Name and Mailing Address LAFARGE ROAD MARKING 2675 R N MARTIN ST EAST POINT GA 30344				Generator's Site Address (if different than mailing address)			
Generator's Phone (973)625-3916							
6. Transporter 1 Company Name				U.S. EPA ID Number			
7. Transporter 2 Company Name				U.S. EPA ID Number			
8. Designated Facility Name and Site Address CHEMICAL WASTE MANAGEMENT, INC. HIGHWAY 17 NORTH, MILE MARKER 163 EMELLE AL 35459				U.S. EPA ID Number ALD000622464			
Facility's Phone (205)652-9721							
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
		No.	Type				
X	1. RQ, NA3077, HAZARDOUS WASTE, SOLID, N.O.S., 9, III (D008) GA617492	Dump	1	38480 34000 A 08/06/13	P	D008	
	2.						
	3.						
	4.						
14. Special Handling Instructions and Additional Information 1. GA617492 ERG-171							
ERI PROVIDER: CHEMTREC (CONTRACT CCN24117)							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offeor's Printed/Typed Name Joe McCarthy, Pres.				Signature <i>[Signature]</i>		Month Day Year 17 31 13	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____							
17. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name Tony P. Moore Sr.				Signature <i>[Signature]</i>		Month Day Year 07 31 13	
Transporter 2 Printed/Typed Name				Signature		Month Day Year	
18. Discrepancy							
18a. Discrepancy Indication Space <input checked="" type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection							
corrected wt per Joe McCarthy A 08/06/13							
18b. Alternate Facility (or Generator) U.S. EPA ID Number							
Facility's Phone:							
18c. Signature of Alternate Facility (or Generator) Month Day Year							
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. M132		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name Mal Alexander				Signature <i>[Signature]</i>		Month Day Year 17 31 13	

70

k25

CWA, INC. - EMELLE

***** Receipt # 492917 *****

Page - 1

Date/Time In 7/21/13 13:05
Load Type Roll-off
Transporter RICHIE D WOOD INC
DOLomite

Federal EPA ID ALD967138991

** WASTE SUMMARY **
Gross 78128.00
Tare .00
Net 31640 .00
#1 38,480 .00
#2 Net .00

Truck Number 394 Trailer/Container #1 1145 #2 #3

Dept Doc Document Profile Profile Generator Cat Cnt Total W BCS Sched Federal EPA
L# L# Meter Sales Invoicing Container # Code Quoz. Y Units PCB Cat Waste Status ADR #
1 1 00216435302F 04527492 LAFARGE ROAD MARKING 1 DT 34000.00 P Pounds TV58 PD Check Restriction 073115-0009
EAST POINT GA SUBCC Value - NO 06/28/14
Doc Seq # 1 EXE BIG BEND ENVIRONMENTAL SVCS P.O. Num

Federal Waste Codes 0000

>SIX OR <SIX DEBITS (CIRCLE)
PREFILLED VIAL Y OR N (CIRCLE)
>SIX OR <SIX MAC 10% INSPECTION (CIRCLE)

MILK MATERIAL ONLY:

SAMPLED/INSPECTED _____ FREE LIQUIDS DETECTED? YES / NO

SELECT MATERIAL/NO-SELECT MATERIAL _____ WIND DISPERSAL MATERIAL? YES / NO

PHYSICAL DESCRIPTION OF WASTE: _____ SAMPLER/APPROVAL _____

SPOT SAMPLE: B13- _____) PHYS. DESCRIPTION _____
RAD. SCREEN POS NEG)
IGH. SCREEN POS NEG)
H2O SOL. S F PT/SOL.)
H2O RIN/TEMP. INITIAL NO RIN REACTS)
H2O RIN/TEMP. SWIN. NO RIN REACTS)
ph (PAPER))
CN SCREEN + - SULFIDE SCREEN + -)
ADDITIONAL ANALYTICAL REQ'D? Y N
DESCRIBE:
PCB CONC. (PPM) _____ SULFIDE (9930) _____
M20 BY KF _____ CYANIDE (9910C) _____ TAB WASTE Y N
PAINT FILTER TEST/ P F _____ SPEC. GRAVITY _____ H2O CONC. PPM
COMMENTS: (SAFETY/OPERATIONAL) _____

COMPAT. TEST W/ _____ OR RIN _____

ADD'L SPOT SAMPLE ATTACHED? Y N _____

DISPOSAL METHOD: S SP ST-3 ST-3/PT P-ST-3 P-ST-3/PT ST-5 ST-5/PT P-ST-5 S01-PTA B-PTW OTHER _____
P-ST-5/PT ST-8 ST-8/PT RIC MAC (MAC INSPECT) F INC SP-VS PCB-MAC P-MAC
P-ST-8 P-ST-8/PT VS-3 VS-3 VS-8

INDICATED PARAMETER WILL BE CIRCLED
B-MAC LOADS REQUIRING INSPECTION THAT ARE FOUND TO BE LESS THAN 51% MUST
BE RETURNED TO LAB AND PLACED ON HOLD.

RELEASED FOR DISPOSAL BY: _____ DATE: _____

HS TRK #396

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number GAD088935960	2. Page 1 of 1	3. Emergency Response Phone (800)424-9300	4. Manifest Tracking Number 002164554 GBF		
5. Generator's Name and Mailing Address LAFARGE ROAD MARKING 2675 R N MARTIN ST EAST POINT GA 30344				Generator's Site Address (if different than mailing address)			
Generator's Phone (973)625-3918				U.S. EPA ID Number ALD067138891			
6. Transporter 1 Company Name Robbie D Wood Inc.				U.S. EPA ID Number			
7. Transporter 2 Company Name				U.S. EPA ID Number			
8. Designated Facility Name and Site Address CHEMICAL WASTE MANAGEMENT, INC. HIGHWAY 17 NORTH, MILE MARKER 163 EMELLE AL 35459				U.S. EPA ID Number ALD000622464			
Facility's Phone (205)652-9721							
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
			No.	Type			
	X	RQ, NA3077, HAZARDOUS WASTE, SOLID, N.O.S., 9, III (D008)	1	DT	17.47	Tons	DC08
		GA617492			20	08/06/13	
14. Special Handling Instructions and Additional Information 1. GA617492 ERG-171 ERI PROVIDER: CHEMTREC (CONTRACT CCN24117)							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offeror's Printed/Typed Name Joe McCarthy				Signature <i>[Signature]</i>		Month Day Year 17 31 13	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____							
17. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name TONY WEAVER				Signature <i>[Signature]</i>		Month Day Year 7 31 13	
Transporter 2 Printed/Typed Name				Signature		Month Day Year	
18. Discrepancy							
18a. Discrepancy Indication Space <input checked="" type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection							
corrected wt per Joe McCarthy 08/06/13							
18b. Alternate Facility (or Generator) U.S. EPA ID Number							
Facility's Phone:							
18c. Signature of Alternate Facility (or Generator) Month Day Year							
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. H132		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name Mal Alexander				Signature <i>[Signature]</i>		Month Day Year 17 31 13	

69

428

CWR, INC. - ENELLE

***** Receipt # 492919 *****

Page 1

Date/Time In 7/31/13 13:12

Load Type Debris

Federal EPA ID ALD067138891

Transporter ROBBIE D WOOD INC
POLYHITE

AL

** WEIGHT SUMMARY **

Gross 66360.00

Tare .00

Net 31400.00

Adj. 31400.00

Adj. Net .00

Truck Number 396

Trailer/Container #1 1135

#2

#3

11,477 lbs

Rept Doc	Document Profile	Profile Generator	Cat	Cat	Total W DCS	Sched	Federal EPA					
Lab Lab	Number	Sales	Invoicing	Customer	# Code	Quan.	Y Units	PCR	Cat	Waste Status	ADER #	
1	09216475000F	GAG1749Z	LAFARGE ROAD MARKING	1	BT	28.00	T	Kilogram	TV58	PC	Check Restriction	073115-0009

Doc Seq # 1 ENE
Federal Waste Codes 0000
>SIX OR <SIX DEBRIS (CIRCLE)
PREFILLED VAULT Y OR N (CIRCLE)
>SIX OR <SIX MAC 10% INSPECTIONS (CIRCLE)
SOLID MATERIAL ONLY:
SAMPLED/INSPECTED
SELECT MATERIAL/NO-SELECT MATERIAL

EAST POINT GA
SUBC Valer - RD 05/20/14
P.O. Num

DEB DEB ENVIRONMENTAL SVCS

FREE LIQUIDS DETECTED? YES / NO
WIND DISPERSAL MATERIAL? YES / NO

PHYSICAL DESCRIPTION OF WASTE:

SAMPLER/APPROVAL

SPOT SAMPLE:	R13-	PTS. DESCRIPTION
RAD. SCREEN	POS NEG	
IGN. SCREEN	POS NEG	
H2O SOL.	S F PT/SOL	
H2O RIN/TEMP. INITIAL	NO RXN REACTS	
H2O RIN/TEMP. SMIR.	NO RXN REACTS	
ph (PAPER)		
CH SCREEN	- SULFIDE SCREEN + -	

ADDITIONAL ANALYTICAL REQ'D? Y N

DESCRIBE:

PCB CONC. (PPM) _____ SULFIDE (9030) _____

MX20 BY KF _____ CYANIDE (9010C) _____ TAB WASTE Y N _____

PAINT FILTER TEST/ P F _____ SPEC. GRAVITY _____ HWZ CONC. _____ PPM _____

COMMENTS: (SAFETY/OPERATIONAL) _____

COMPAT. TEST W/ _____ OR _____

ADD'L SPOT SAMPLE ATTACHED? Y N

DISPOSAL METHOD: S SP ST-3 ST-3/PT P-ST-3 P-ST-3/PT ST-5 ST-5/PT P-ST-5 S01-PTA B-PIN OTHER _____

P-ST-5/PT ST-8 ST-8/PT HIC MAC (MAC INSPECT) F INC SP-VS PCB-MAC P-MAC _____

P-ST-8 P-ST-8/PT VS-3 VS-5 VS-8 _____

INDICATOR PARAMETER WILL BE CIRCLED

B-MAC LOADS REQUIRING INSPECTION THAT ARE FOUND TO BE LESS THAN SIX MUST

BE RETURNED TO LAB AND PLACED ON HOLD.

RELEASED FOR DISPOSAL BY: _____ DATE: _____

1 T.K # 421

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number GADD88935860	2. Page 1 of 1	3. Emergency Response Phone 516-816-4765	4. Manifest Tracking Number 011979676 JJK		
5. Generator's Name and Mailing Address LaFarge Road Marking, Inc. 12018 Sunrise Valley Drive, Suite 500 Reston, VA 20191				Generator's Site Address (if different than mailing address) 2875 R N Martin Street East Point, GA 30344			
Generator's Phone: 973-825-3816							
6. Transporter 1 Company Name Horwith Trucks, Inc.				U.S. EPA ID Number PAD146714878			
7. Transporter 2 Company Name				U.S. EPA ID Number			
8. Designated Facility Name and Site Address Wayne Disposal, Inc. Site #2 Landfill 49350 N. I-94 Service Drive Belleville, MI 48111				U.S. EPA ID Number MI0048090833			
Facility's Phone: 800-592-5489							
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
		No.	Type				
X	1. RQ, NA3077, Hazardous Waste Solid, N.O.S., 9, PGIII, (D040)(Trichloroethene), ERG#171	01	DT	EST. 18	Y	D040	
	2.						
	3.						
	4.						
14. Special Handling Instructions and Additional Information Ob. 1) G132172WDI							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offeror's Printed/Typed Name <i>[Signature]</i>				Signature <i>[Signature]</i>		Month Day Year 18 22 13	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____							
17. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name Stephen Mustrella				Signature <i>[Signature]</i>		Month Day Year 8 22 13	
Transporter 2 Printed/Typed Name				Signature		Month Day Year	
18. Discrepancy							
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection							
Manifest Reference Number: _____							
18b. Alternate Facility (or Generator)				U.S. EPA ID Number			
Facility's Phone:							
18c. Signature of Alternate Facility (or Generator)						Month Day Year	
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1.		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name				Signature		Month Day Year	

2

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number GAD006036900	2. Page 1 of 1	3. Emergency Response Phone 516-816-4785	4. Manifest Tracking Number 011979677 JJK		
5. Generator's Name and Mailing Address LaFargo Road Marking, Inc. 12018 Sunrise Valley Drive, Suite 500 Reston, VA 20191				Generator's Site Address (if different than mailing address) 2675 R N Martin Street East Point, GA 30344			
Generator's Phone: 873-625-3916							
6. Transporter 1 Company Name Horwith Trucks, Inc.				U.S. EPA ID Number PAD146714878			
7. Transporter 2 Company Name				U.S. EPA ID Number			
8. Designated Facility Name and Site Address Wayne Disposal, Inc. Site #2 Landfill 49350 N. I-94 Service Drive Belleville, MI 48111				U.S. EPA ID Number MID048090833			
Facility's Phone: 800-562-6469							
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
		No.	Type				
X	1. RQ, NA3077, Hazardous Waste Solid, N.O.S., 9, PGIII, (D040)(Trichloroethene), ERG#171	01	DT	Est. 18	Y	D040	
	2.						
	3.						
	4.						
14. Special Handling Instructions and Additional Information 9b. 1) G132172WDI							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offeror's Printed/Typed Name <i>[Signature]</i>				Signature <i>[Signature]</i>		Month Day Year 8 26 13	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____							
17. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name MIKE POWERS				Signature <i>[Signature]</i>		Month Day Year 8 26 13	
Transporter 2 Printed/Typed Name				Signature		Month Day Year	
18. Discrepancy							
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection							
Manifest Reference Number: _____							
18b. Alternate Facility (or Generator)						U.S. EPA ID Number	
Facility's Phone: _____							
18c. Signature of Alternate Facility (or Generator)						Month Day Year	
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1.		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name				Signature		Month Day Year	

#3 TIL # 17

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number GAD088936995	2. Page 1 of 1	3. Emergency Response Phone 516-816-4705	4. Manifest Tracking Number 011979678 JJK			
5. Generator's Name and Mailing Address LaFarge Road Marking, Inc. 12016 Sunrise Valley Drive, Suite 500 Reston, VA 20181				Generator's Site Address (if different than mailing address) 2575 R N Martin Street East Point, GA 30344				
Generator's Phone: 573-826-3915								
6. Transporter 1 Company Name Horwith Trucks, Inc.				U.S. EPA ID Number PAD146714878				
7. Transporter 2 Company Name				U.S. EPA ID Number				
8. Designated Facility Name and Site Address Wayne Disposal, Inc. Site #2 Landfill 46350 N. I-94 Service Drive Belleville, MI 48111				U.S. EPA ID Number MID048090633				
Facility's Phone: 800-592-5489								
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
		No.	Type					
X	1. RQ, NA3077, Hazardous Waste Solid, N.O.S., 9, PGIII, (D040)(Trichloroethane), ERG#171	01	DT	Est. 16	Y	D040		
	2.							
	3.							
	4.							
14. Special Handling Instructions and Additional Information 9b.1) G132172WCI								
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.								
Generator's/Offeror's Printed/Typed Name <i>[Signature]</i>				Signature <i>[Signature]</i>		Month 8	Day 26	Year 13
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Transporter signature (for exports only): _____ Date leaving U.S.: _____								
17. Transporter Acknowledgment of Receipt of Materials								
Transporter 1 Printed/Typed Name Chris Grinnell				Signature <i>[Signature]</i>		Month 8	Day 26	Year 13
Transporter 2 Printed/Typed Name				Signature		Month	Day	Year
18. Discrepancy								
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection								
Manifest Reference Number: _____								
18b. Alternate Facility (or Generator)						U.S. EPA ID Number		
Facility's Phone: _____								
18c. Signature of Alternate Facility (or Generator)						Month	Day	Year
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)								
1.		2.		3.		4.		
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a								
Printed/Typed Name				Signature		Month	Day	Year

#4 T.L.#15

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number GAD000035090	2. Page 1 of 1	3. Emergency Response Phone 516-816-4706	4. Manifest Tracking Number 011979679 JJK		
5. Generator's Name and Mailing Address LaFarge Road Marking, Inc. 12618 Sunrise Valley Drive, Suite 500 Reston, VA 20191			Generator's Site Address (if different than mailing address) 2675 R N Martin Street East Point, GA 30344				
Generator's Phone: 873-925-3916							
6. Transporter 1 Company Name Horwith Trucks, Inc.			U.S. EPA ID Number PAD146714878				
7. Transporter 2 Company Name			U.S. EPA ID Number				
8. Designated Facility Name and Site Address Wayne Disposal, Inc. Site #2 Landfill 49350 N. I-84 Service Drive Belleville, MI 48111			U.S. EPA ID Number MID046090833				
Facility's Phone: 800-592-5480							
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
		No.	Type				
X	1. RC, NA3077, Hazardous Waste Solid, N.O.S., 9, PGII, (D040)(Trichloroethene), ERG#171	01	DT	EST. 18	Y	D040	
	2.						
	3.						
	4.						
14. Special Handling Instructions and Additional Information 9b.1) G132172WDI							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offeror's Printed/Typed Name <i>LaFarge Road Marking, Inc. Primary</i>				Signature <i>[Signature]</i>		Month Day Year 8 26 13	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____							
17. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name <i>Tam Sheemaker</i>				Signature <i>[Signature]</i>		Month Day Year 8 26 13	
Transporter 2 Printed/Typed Name				Signature		Month Day Year	
18. Discrepancy							
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection							
18b. Alternate Facility (or Generator) Manifest Reference Number: _____ U.S. EPA ID Number _____							
Facility's Phone:							
18c. Signature of Alternate Facility (or Generator)						Month Day Year	
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1.		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name				Signature		Month Day Year	

#5 Tr # 1

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number GAD008935000	2. Page 1 of 1	3. Emergency Response Phone 516-816-4765	4. Manifest Tracking Number 011979680 JJK			
5. Generator's Name and Mailing Address LaFarge Road Marking, Inc. 12018 Sunrise Valley Drive, Suite 500 Reston, VA 20191				Generator's Site Address (if different than mailing address) 2675 R N Martin Street East Point, GA 30344				
Generator's Phone: 973-825-3816								
6. Transporter 1 Company Name Horwith Trucks, Inc.				U.S. EPA ID Number PAD146714670				
7. Transporter 2 Company Name				U.S. EPA ID Number				
8. Designated Facility Name and Site Address Wayne Disposal, Inc. Site #2 Landfill 40350 N. I-24 Service Drive Solvay, MI 48111				U.S. EPA ID Number MMD048090833				
Facility's Phone: 800-592-6486								
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
		No.	Type					
X	1. RQ, HA3077, Hazardous Waste Solid, N.O.S., 9, PGIII, (D040)(Trichloroethene), ERG#171	01	DT	EST. 18	Y	D040		
	2.							
	3.							
	4.							
14. Special Handling Instructions and Additional Information 9b. 1) G132172WDI								
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.								
Generator's/Offeror's Printed/Typed Name <i>LaFarge Road Marking, Inc.</i>				Signature <i>[Signature]</i>		Month 8	Day 26	Year 13
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____								
17. Transporter Acknowledgment of Receipt of Materials								
Transporter 1 Printed/Typed Name William Koves				Signature <i>[Signature]</i>		Month 09	Day 26	Year 13
Transporter 2 Printed/Typed Name				Signature		Month	Day	Year
18. Discrepancy								
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection								
Manifest Reference Number:								
18b. Alternate Facility (or Generator)				U.S. EPA ID Number				
Facility's Phone:								
18c. Signature of Alternate Facility (or Generator)						Month	Day	Year
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)								
1.	2.	3.	4.					
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a								
Printed/Typed Name				Signature		Month	Day	Year

6 Trk # 2

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number GAD008935090	2. Page 1 of 1	3. Emergency Response Phone 516-816-4765	4. Manifest Tracking Number 011979681 JJK			
5. Generator's Name and Mailing Address LaFarge Road Marking, Inc. 12018 Sunrise Valley Drive, Suite 500 Reston, VA 20191			Generator's Site Address (if different than mailing address) 2675 R N Martin Street East Point, GA 30344					
Generator's Phone: 873-625-3816								
6. Transporter 1 Company Name Horwith Trucks, Inc.			U.S. EPA ID Number PAD146714678					
7. Transporter 2 Company Name			U.S. EPA ID Number					
8. Designated Facility Name and Site Address: Wayne Disposal, Inc. Site #2 Landfill 49360 N. I-94 Service Drive Batesville, TN 38111			U.S. EPA ID Number MID048090633					
Facility's Phone: 800-592-5480								
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
		No.	Type					
X	1. RC, NA3077, Hazardous Waste Solid, N.O.S., 9, PGIII, (D040)(Trichloroethene), ERG#171	01	DT	EST 16	Y	D040		
	2.							
	3.							
	4.							
14. Special Handling Instructions and Additional Information 9b.1) G132172WDI								
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.								
Generator's/Offeror's Printed/Typed Name LaFarge Road Marking, Inc. Reston, VA				Signature <i>[Signature]</i>		Month 8	Day 26	Year 13
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____ Transporter signature (for exports only): _____								
17. Transporter Acknowledgment of Receipt of Materials								
Transporter 1 Printed/Typed Name Clayton Wheland				Signature <i>[Signature]</i>		Month 8	Day 26	Year 13
Transporter 2 Printed/Typed Name				Signature		Month	Day	Year
18. Discrepancy								
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection								
Manifest Reference Number: _____								
18b. Alternate Facility (or Generator)						U.S. EPA ID Number		
Facility's Phone:								
18c. Signature of Alternate Facility (or Generator)						Month	Day	Year
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)								
1.	2.	3.	4.					
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a								
Printed/Typed Name				Signature		Month	Day	Year

#7 T.I.#26

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number GAD088935900	2. Page 1 of 1	3. Emergency Response Phone 516-616-4705	4. Manifest Tracking Number 011979682 JJK			
5. Generator's Name and Mailing Address LaFarge Road Marking, Inc. 12018 Sunrise Valley Drive, Suite 500 Reston, VA 20191			Generator's Site Address (if different than mailing address) 2875 R N Martin Street East Point, GA 30344					
Generator's Phone: 973-626-3818								
6. Transporter 1 Company Name Horwith Trucks, Inc.			U.S. EPA ID Number FAD148714878					
7. Transporter 2 Company Name			U.S. EPA ID Number					
8. Designated Facility Name and Site Address Wayne Disposal, Inc. Site #2 Landfill 49350 N. I-94 Service Drive Belleville, MI 48111			U.S. EPA ID Number MID048000933					
Facility's Phone: 800-692-5486								
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
		No.	Type					
X	1. RC, NA3077, Hazardous Waste Solid, N.O.S., 9, PGIII, (DD40)(Trichloroethane), ERG#171	01	DT	EST. 18	Y	DD40		
	2.							
	3.							
	4.							
14. Special Handling Instructions and Additional Information 9b. 1) G132172WDI								
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.								
Generator's/Offorer's Printed/Typed Name <i>LaFarge Road Marking, Inc. Jennifer</i>				Signature <i>Jennifer</i>		Month 8	Day 29	Year 13
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____								
17. Transporter Acknowledgment of Receipt of Materials								
Transporter 1 Printed/Typed Name MIKE BUES				Signature <i>Mike Bues</i>		Month 8	Day 29	Year 13
Transporter 2 Printed/Typed Name				Signature		Month	Day	Year
18. Discrepancy								
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection								
18b. Alternate Facility (or Generator) Manifest Reference Number: _____ U.S. EPA ID Number _____								
Facility's Phone: _____								
18c. Signature of Alternate Facility (or Generator)						Month	Day	Year
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)								
1.		2.		3.		4.		
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a								
Printed/Typed Name				Signature		Month	Day	Year

8 T.H. # 17

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number GAD0988935900	2. Page 1 of 1	3. Emergency Response Phone 510-810-4705	4. Manifest Tracking Number 011979683 JJK			
5. Generator's Name and Mailing Address LaFarge Road Marking, Inc. 12018 Sunrise Valley Drive, Suite 500 Reston, VA 20191				Generator's Site Address (if different than mailing address) 2675 R N Martin Street East Point, GA 30344				
Generator's Phone: 973-625-3910								
6. Transporter 1 Company Name Horwith Trucks, Inc.			U.S. EPA ID Number PAD146714678					
7. Transporter 2 Company Name			U.S. EPA ID Number					
8. Designated Facility Name and Site Address Wayne Disposal, Inc. Site #2 Landfill 40350 N. I-94 Service Drive Belleville, MI 48111				U.S. EPA ID Number MI0046090333				
Facility's Phone: 800-592-6409								
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
		No.	Type					
X	1. RQ, NA3077, Hazardous Waste Solid, N.O.S., 9, PGIII, (0040)(Trichloroethane), ERGN171	01	DT	27.18	Y	0040		
	2.							
	3.							
	4.							
14. Special Handling Instructions and Additional Information 9b. 1) G132172WDI								
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.								
Generator's/Offeror's Printed/Typed Name <i>LaFarge Road Marking, Inc.</i>					Signature <i>[Signature]</i>		Month Day Year 8 29 13	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____								
17. Transporter Acknowledgment of Receipt of Materials								
Transporter 1 Printed/Typed Name <i>Chris Crumell</i>					Signature <i>[Signature]</i>		Month Day Year 8 29 13	
Transporter 2 Printed/Typed Name					Signature		Month Day Year	
18. Discrepancy								
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection								
18b. Alternate Facility (or Generator) Manifest Reference Number: _____ U.S. EPA ID Number _____								
Facility's Phone: _____								
18c. Signature of Alternate Facility (or Generator)							Month Day Year	
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)								
1.		2.		3.		4.		
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a								
Printed/Typed Name					Signature		Month Day Year	

GENERATOR
TRANSPORTER INT'L
DESIGNATED FACILITY

9 Tick # 15

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number GAD0060835800	2. Page 1 of 1	3. Emergency Response Phone 510-516-4705	4. Manifest Tracking Number 011979684 JJK		
5. Generator's Name and Mailing Address LaFarge Road Marking, Inc. 12018 Sunrise Valley Drive, Suite 500 Reston, VA 20191				Generator's Site Address (if different than mailing address) 2675 R N Martin Street East Point, GA 30344			
Generator's Phone: 973-625-3818							
6. Transporter 1 Company Name Horwith Trucks, Inc.				U.S. EPA ID Number PAD146714878			
7. Transporter 2 Company Name				U.S. EPA ID Number			
8. Designated Facility Name and Site Address Wayne Disposal, Inc. Site #2 Landfill 48350 N. I-84 Service Drive Balsville, MI 48111				U.S. EPA ID Number MD048090833			
Facility's Phone: 800-592-5489							
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
		No.	Type				
X	1. RO, NA3077, Hazardous Waste Solid, N.O.S., 9, PGIII, (D040)(Trichloroethane), ERG#171	01	DT	15	Y	D040	
	2.						
	3.						
	4.						
14. Special Handling Instructions and Additional Information 9b. 1) G132172WDM							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offeor's Printed/Typed Name <i>LaFarge Road Marking, Inc. J. McCall</i>				Signature <i>[Signature]</i>		Month Day Year 8 29 13	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____							
17. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name <i>Tom Jochenker</i>				Signature <i>[Signature]</i>		Month Day Year 7 27 13	
Transporter 2 Printed/Typed Name				Signature		Month Day Year	
18. Discrepancy							
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection							
Manifest Reference Number: _____							
18b. Alternate Facility (or Generator)						U.S. EPA ID Number	
Facility's Phone: _____							
18c. Signature of Alternate Facility (or Generator)						Month Day Year	
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1.		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name				Signature		Month Day Year	

#10 T-1 #525

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number GAD000935000	2. Page 1 of 1	3. Emergency Response Phone 510-810-4705	4. Manifest Tracking Number 011979685 JJK		
5. Generator's Name and Mailing Address LaFarge Road Marking, Inc. 12018 Sunrise Valley Drive, Suite 500 Reston, VA 20191				Generator's Site Address (if different than mailing address) 2675 R N Martin Street East Point, GA 30344			
Generator's Phone: 573-828-3016							
6. Transporter 1 Company Name Horwith Trucks, Inc.			U.S. EPA ID Number PAD146714678				
7. Transporter 2 Company Name			U.S. EPA ID Number				
8. Designated Facility Name and Site Address Wayne Disposal, Inc. Site #2 Landfill 40350 N. I-34 Service Drive Bellefonte, PA 16811				U.S. EPA ID Number MID048090633			
Facility's Phone: 800-692-5489							
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
		No.	Type				
X	1. RQ, NA3077, Hazardous Waste Solid, N.O.S., 9, PGIII, (D040)(Trichloroethene), ERG#171	01	DT	18	Y	D040	
	2.						
	3.						
	4.						
14. Special Handling Instructions and Additional Information 9b.1) G132172WDI							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offeror's Printed/Typed Name <i>LaFarge Road Marking, Inc. Tom Cullen</i>				Signature <i>[Signature]</i>		Month Day Year 9 3 13	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____							
17. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name <i>Frank Kruppenberger</i>				Signature <i>[Signature]</i>		Month Day Year 09 23 13	
Transporter 2 Printed/Typed Name				Signature		Month Day Year	
18. Discrepancy							
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection							
Manifest Reference Number: _____							
18b. Alternate Facility (or Generator)						U.S. EPA ID Number	
Facility's Phone: _____							
18c. Signature of Alternate Facility (or Generator)						Month Day Year	
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1.		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name				Signature		Month Day Year	

11 TRK # 416

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number GAD086635003	2. Page 1 of 1	3. Emergency Response Phone 516-816-4765	4. Manifest Tracking Number 011979686 JJK				
5. Generator's Name and Mailing Address LaFarge Road Marking, Inc. 12018 Sunrise Valley Drive, Suite 500 Reston, VA 20191				Generator's Site Address (if different than mailing address) 2675 R N Martin Street East Point, GA 30344					
Generator's Phone: 703-425-3016									
6. Transporter 1 Company Name Horwith Trucks, Inc.				U.S. EPA ID Number PAD146714676					
7. Transporter 2 Company Name				U.S. EPA ID Number					
8. Designated Facility Name and Site Address Wayne Disposal, Inc. Site #2 Landfill 49350 N. I-94 Service Drive Belleville, MI 48111				U.S. EPA ID Number MID048090933					
Facility's Phone: 800-592-5400									
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes			
		No.	Type						
X	1. RQ, NA3077, Hazardous Waste Solid, N.O.S., 9, PGIII, (D040)(Trichloroethane), ERG#171	01	DT	EST. 18	Y	D040			
	2.								
	3.								
	4.								
14. Special Handling Instructions and Additional Information 9b. 1) G132172WDI									
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.									
Generator's/Offeror's Printed/Typed Name <i>LaFarge Road Marking, Inc.</i>				Signature <i>[Signature]</i>			Month Day Year 9 4 13		
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Transporter signature (for exports only): _____ Date leaving U.S.: _____									
17. Transporter Acknowledgment of Receipt of Materials									
Transporter 1 Printed/Typed Name <i>ROBERT STAMMIZ</i>				Signature <i>[Signature]</i>			Month Day Year 9 4 13		
Transporter 2 Printed/Typed Name				Signature			Month Day Year		
18. Discrepancy									
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection									
18b. Alternate Facility (or Generator) Manifest Reference Number: _____ U.S. EPA ID Number _____									
Facility's Phone: _____									
18c. Signature of Alternate Facility (or Generator)							Month Day Year		
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)									
1.		2.		3.		4.			
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a									
Printed/Typed Name				Signature			Month Day Year		



Appendix E

Well Construction and Development,
Logs

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: <u>A3-101</u> <u>SVE-219</u>	Site Name: Lafarge Road Marking			Well Install Date(s): <u>5/6/13</u> <u>SVE 4/20/13</u>	
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: Hollow Stem Auger	
If AG, list feet of riser above land surface:				Surface Casing Install Method: NA	
Borehole Depth (feet): <u>56</u>	Well Depth (feet): <u>36</u>	Borehole Diameter (inches): <u>8</u>	Manhole Diameter (inches): <u>8</u>	Well Pad Size: _____ feet by _____ feet	
Riser Diameter and Material: <u>2" PUS + S.S.</u>	Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)			Riser Length: <u>37.0</u> feet from <u>36.33</u> feet to <u>33</u> feet	
Screen Diameter and Material: <u>2" S.S.</u>	Screen Slot Size: <u>0.010</u>			Screen Length: <u>3</u> feet from <u>30</u> feet to <u>33</u> feet	
1 st Surface Casing Material: also check <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary	1 st Surface Casing I.D. (inches):			1 st Surface Casing Length: _____ feet from _____ feet to _____ feet	
2 nd Surface Casing Material: also check <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary	2 nd Surface Casing I.D. (inches):			2 nd Surface Casing Length: _____ feet from _____ feet to _____ feet	
3 rd Surface Casing Material: also check <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary	3 rd Surface Casing I.D. (inches):			3 rd Surface Casing Length: _____ feet from _____ feet to _____ feet	
Filter Pack Material and Size: <u>20/30 Sand</u>	Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			Filter Pack Length: <u>4.5</u> feet from <u>36</u> feet to <u>31.5</u> feet	
Filter Pack Seal Material and Size: <u>Fine Sand + Grout</u>				Filter Pack Seal Length: <u>2</u> feet from <u>31.5</u> feet to <u>29.5</u> feet	
Surface Seal Material:	<u>Cement Grout</u>			Surface Seal Length: <u>29.5</u> feet from <u>29.5</u> feet to <u>0</u> feet	

WELL DEVELOPMENT DATA			
Well Development Date:	Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)		
Development Pump Type (check): <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)	<input type="checkbox"/> Centrifugal <input type="checkbox"/> Peristaltic	Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):	Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No	
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development:		Water Appearance (color and odor) At End of Development:	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA				
Well Number: <u>AS-102</u> <u>SVE-214</u>	Site Name: Lafarge Road Marking		Well Install Date(s): <u>5/10/13</u> <u>SVE 4/20/13</u>	
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade	Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)	Well Install Method: Hollow Stem Auger		
If AG, list feet of riser above land surface:		Surface Casing Install Method: NA		
Borehole Depth (feet): <u>36</u>	Well Depth (feet): <u>36</u>	Borehole Diameter (inches): <u>8</u>	Manhole Diameter (inches): <u>8</u>	Well Pad Size: _____ feet by _____ feet
Riser Diameter and Material: <u>2" S.S. + PVC</u>	Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)	Riser Length: <u>33</u> feet from <u>33.2</u> feet to <u>0</u> feet		
Screen Diameter and Material: <u>2" S.S.</u>	Screen Slot Size: <u>0.010</u>	Screen Length: <u>3</u> feet from <u>36</u> feet to <u>33</u> feet		
1 st Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary	1 st Surface Casing I.D. (inches):	1 st Surface Casing Length: _____ feet from _____ feet to _____ feet		
2 nd Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary	2 nd Surface Casing I.D. (inches):	2 nd Surface Casing Length: _____ feet from _____ feet to _____ feet		
3 rd Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary	3 rd Surface Casing I.D. (inches):	3 rd Surface Casing Length: _____ feet from _____ feet to _____ feet		
Filter Pack Material and Size: <u>20/30 Sand</u>	Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Filter Pack Length: <u>4.5</u> feet from <u>36</u> feet to <u>31.5</u> feet		
Filter Pack Seal Material and Size: <u>Fine Sand + Bentonite</u>		Filter Pack Seal Length: <u>2</u> feet from <u>31.5</u> feet to <u>29.5</u> feet		
Surface Seal Material: Cement Grout		Surface Seal Length: <u>29.5</u> feet from <u>29.5</u> feet to <u>0</u> feet		

WELL DEVELOPMENT DATA			
Well Development Date:	Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)		
Development Pump Type (check): <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)	<input type="checkbox"/> Centrifugal <input type="checkbox"/> Peristaltic	Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):	Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No	
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development:		Water Appearance (color and odor) At End of Development:	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: <i>AS-107</i> <i>SVE-219</i>	Site Name: Lafarge Road Marking		Well Install Date(s): <i>5/20/13</i> <i>5/20/13</i>		
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: Hollow Stem Auger	
If AG, list feet of riser above land surface:				Surface Casing Install Method: NA	
Borehole Depth (feet):	Well Depth (feet):	Borehole Diameter (inches): <i>8</i>	Manhole Diameter (inches): <i>8</i>	Well Pad Size: _____ feet by _____ feet	
Riser Diameter and Material: <i>2", SS + PVC</i>		Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)	Riser Length: _____ feet from _____ feet to _____ feet		
Screen Diameter and Material: <i>2", S.S.</i>		Screen Slot Size: <i>0.010</i>	Screen Length: _____ feet from _____ feet to _____ feet		
1 st Surface Casing Material: also check <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		1 st Surface Casing I.D. (inches):	1 st Surface Casing Length: _____ feet from _____ feet to _____ feet		
2 nd Surface Casing Material: also check <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		2 nd Surface Casing I.D. (inches):	2 nd Surface Casing Length: _____ feet from _____ feet to _____ feet		
3 rd Surface Casing Material: also check <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		3 rd Surface Casing I.D. (inches):	3 rd Surface Casing Length: _____ feet from _____ feet to _____ feet		
Filter Pack Material and Size: <i>20/30 Sand</i>	Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Filter Pack Length: _____ feet from _____ feet to _____ feet		
Filter Pack Seal Material and Size: <i>Fine Sand + Bentonite</i>		Filter Pack Seal Length: _____ feet from _____ feet to _____ feet			
Surface Seal Material: Cement Grout		Surface Seal Length: _____ feet from _____ feet to _____ feet			

WELL DEVELOPMENT DATA			
Well Development Date:		Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)	
Development Pump Type (check): <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)		Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):		Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development:		Water Appearance (color and odor) At End of Development:	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: <u>AS-104</u> <u>SVE-214</u>		Site Name: <u>Lafarge Road Marking</u>		Well Install Date(s): <u>5/7/13</u> <u>SVE 4/20/13</u>	
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: <u>Hollow Stem Auger</u>	
If AG, list feet of riser above land surface:				Surface Casing Install Method: <u>NA</u>	
Borehole Depth (feet): <u>30</u>	Well Depth (feet): <u>30</u>	Borehole Diameter (inches): <u>8</u>	Manhole Diameter (inches): <u>8</u>	Well Pad Size: _____ feet by _____ feet	
Riser Diameter and Material: <u>2" SS + PVC</u>		Riser/Screen Connections: <input type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)	Riser Length: <u>33</u> feet from <u>33</u> feet to <u>0</u> feet		
Screen Diameter and Material: <u>2" SS</u>		Screen Slot Size: <u>0.010</u>	Screen Length: <u>3</u> feet from <u>36</u> feet to <u>33</u> feet		
1 st Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		1 st Surface Casing I.D. (inches):	1 st Surface Casing Length: _____ feet from _____ feet to _____ feet		
2 nd Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		2 nd Surface Casing I.D. (inches):	2 nd Surface Casing Length: _____ feet from _____ feet to _____ feet		
3 rd Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		3 rd Surface Casing I.D. (inches):	3 rd Surface Casing Length: _____ feet from _____ feet to _____ feet		
Filter Pack Material and Size: <u>20/30 Sand</u>	Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Filter Pack Length: <u>4.5</u> feet from <u>30</u> feet to <u>31.5</u> feet		
Filter Pack Seal Material and Size: <u>Fine Sand + Bentonite</u>			Filter Pack Seal Length: <u>2</u> feet from <u>31.5</u> feet to <u>29.5</u> feet		
Surface Seal Material: <u>Cement Grout</u>			Surface Seal Length: <u>29.5</u> feet from <u>29.5</u> feet to <u>0</u> feet		

WELL DEVELOPMENT DATA			
Well Development Date:		Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)	
Development Pump Type (check): <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)		Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):	Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No	
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development:		Water Appearance (color and odor) At End of Development:	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA				
Well Number: <u>A-105</u> <u>SVE 219</u>		Site Name: <u>Lafarge Road Marking</u>		Well Install Date(s): <u>6/16/13</u> <u>SVE 4/20/13</u>
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: <u>Hollow Stem Auger</u>
If AG, list feet of riser above land surface:		Surface Casing Install Method: <u>NA</u>		
Borehole Depth (feet): <u>36</u>	Well Depth (feet): <u>36</u>	Borehole Diameter (inches): <u>6</u>	Manhole Diameter (inches): <u>8</u>	Well Pad Size: _____ feet by _____ feet
Riser Diameter and Material: <u>2" PVC + S.S.</u>	Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)	Riser Length: <u>33</u> feet from <u>33</u> feet to <u>0</u> feet		
Screen Diameter and Material: <u>2" S.S.</u>	Screen Slot Size: <u>0.010</u>	Screen Length: <u>3</u> feet from <u>36</u> feet to <u>33</u> feet		
1 st Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary	1 st Surface Casing I.D. (inches):	1 st Surface Casing Length: _____ feet from _____ feet to _____ feet		
2 nd Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary	2 nd Surface Casing I.D. (inches):	2 nd Surface Casing Length: _____ feet from _____ feet to _____ feet		
3 rd Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary	3 rd Surface Casing I.D. (inches):	3 rd Surface Casing Length: _____ feet from _____ feet to _____ feet		
Filter Pack Material and Size: <u>20/30 Sand</u>	Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Filter Pack Length: <u>4.5</u> feet from <u>36</u> feet to <u>31.5</u> feet		
Filter Pack Seal Material and Size: <u>Fine Sand + Bentonite</u>		Filter Pack Seal Length: <u>2</u> feet from <u>31.5</u> feet to <u>29.5</u> feet		
Surface Seal Material: <u>Cement Grout</u>		Surface Seal Length: <u>29.5</u> feet from <u>29.5</u> feet to <u>0</u> feet		

WELL DEVELOPMENT DATA			
Well Development Date:	Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)		
Development Pump Type (check): <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)	<input type="checkbox"/> Centrifugal <input type="checkbox"/> Peristaltic	Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):	Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No	
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development:		Water Appearance (color and odor) At End of Development:	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: <u>AS 106</u> <u>SVE-2190</u>		Site Name: <u>Lafarge Road Marking</u>		Well Install Date(s): <u>1/7/12</u> 4/20/13	
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: <u>Hollow Stem Auger</u>	
If AG, list feet of riser above land surface:				Surface Casing Install Method: <u>NA</u>	
Borehole Depth (feet): <u>836</u>	Well Depth (feet): <u>836</u>	Borehole Diameter (inches): <u>8</u>	Manhole Diameter (inches): <u>8</u>	Well Pad Size: _____ feet by _____ feet	
Riser Diameter and Material: <u>2", SS + PVC</u>		Riser/Screen Connections: <input type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)	Riser Length: <u>57</u> feet from <u>772</u> feet to <u>0</u> feet		
Screen Diameter and Material: <u>2", SS</u>		Screen Slot Size: <u>0-010</u>	Screen Length: <u>3</u> feet from <u>76</u> feet to <u>57</u> feet		
1 st Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		1 st Surface Casing I.D. (inches):	1 st Surface Casing Length: _____ feet from _____ feet to _____ feet		
2 nd Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		2 nd Surface Casing I.D. (inches):	2 nd Surface Casing Length: _____ feet from _____ feet to _____ feet		
3 rd Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		3 rd Surface Casing I.D. (inches):	3 rd Surface Casing Length: _____ feet from _____ feet to _____ feet		
Filter Pack Material and Size: <u>20/30 Sand</u>	Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Filter Pack Length: <u>4.5</u> feet from <u>36</u> feet to <u>31.5</u> feet		
Filter Pack Seal Material and Size: <u>Fine Sand + Bentonite</u>			Filter Pack Seal Length: <u>2</u> feet from <u>31.5</u> feet to <u>29.5</u> feet		
Surface Seal Material: <u>Cement Grout</u>			Surface Seal Length: <u>29.5</u> feet from <u>29.5</u> feet to <u>0</u> feet		

WELL DEVELOPMENT DATA			
Well Development Date:		Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)	
Development Pump Type (check): <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)		Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):		Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development:		Water Appearance (color and odor) At End of Development:	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: <u>AS-104</u> <u>SVE-219</u> <u>103</u>		Site Name: Lafarge Road Marking		Well Install Date(s): <u>6/9/13</u> <u>SVE 4/20/13</u>	
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: Hollow Stem Auger	
If AG, list feet of riser above land surface:				Surface Casing Install Method: NA	
Borehole Depth (feet): <u>34</u>	Well Depth (feet): <u>34</u>	Borehole Diameter (inches): <u>8</u>	Manhole Diameter (inches): <u>8</u>	Well Pad Size: <u> </u> feet by <u> </u> feet	
Riser Diameter and Material: <u>2" PVC + S.S.</u>		Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)	Riser Length: <u>31</u> feet from <u>31</u> feet to <u>0</u> feet		
Screen Diameter and Material: <u>2" SS.</u>		Screen Slot Size: <u>0.010</u>	Screen Length: <u>3</u> feet from <u>34</u> feet to <u>31</u> feet		
1 st Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		1 st Surface Casing I.D. (inches):	1 st Surface Casing Length: <u> </u> feet from <u> </u> feet to <u> </u> feet		
2 nd Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		2 nd Surface Casing I.D. (inches):	2 nd Surface Casing Length: <u> </u> feet from <u> </u> feet to <u> </u> feet		
3 rd Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		3 rd Surface Casing I.D. (inches):	3 rd Surface Casing Length: <u> </u> feet from <u> </u> feet to <u> </u> feet		
Filter Pack Material and Size: <u>20/30 Sand</u>	Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Filter Pack Length: <u>4.5</u> feet from <u>34</u> feet to <u>29.5</u> feet		
Filter Pack Seal Material and Size: <u>Fine Sand + Bentonite</u>		Filter Pack Seal Length: <u>2</u> feet from <u>29.5</u> feet to <u>27.5</u> feet			
Surface Seal Material: Cement Grout		Surface Seal Length: <u>27.5</u> feet from <u>29.5</u> feet to <u>0</u> feet			

WELL DEVELOPMENT DATA			
Well Development Date:		Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)	
Development Pump Type (check): <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)		Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):		Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development:		Water Appearance (color and odor) At End of Development:	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS
<u>Hit Resistance @ 34' bgs, set well @ 34'</u>

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: <u>AS-108</u> <u>SVE-279</u>	Site Name: <u>Lafarge Road Marking</u>		Well Install Date(s): <u>7/9/13</u> <u>STE 4/20/13</u>		
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: <u>Hollow Stem Auger</u>	
If AG, list feet of riser above land surface:				Surface Casing Install Method: <u>NA</u>	
Borehole Depth (feet): <u>36</u>	Well Depth (feet): <u>36</u>	Borehole Diameter (inches): <u>8</u>	Manhole Diameter (inches): <u>8</u>	Well Pad Size: _____ feet by _____ feet	
Riser Diameter and Material: <u>2" SS + PVC</u>	Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)	Riser Length: <u>33</u> feet from <u>33</u> feet to <u>0</u> feet			
Screen Diameter and Material: <u>2" SS</u>		Screen Slot Size: <u>0.010</u>		Screen Length: <u>3</u> feet from <u>36</u> feet to <u>33</u> feet	
1 st Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		1 st Surface Casing I.D. (inches):		1 st Surface Casing Length: _____ feet from _____ feet to _____ feet	
2 nd Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		2 nd Surface Casing I.D. (inches):		2 nd Surface Casing Length: _____ feet from _____ feet to _____ feet	
3 rd Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		3 rd Surface Casing I.D. (inches):		3 rd Surface Casing Length: _____ feet from _____ feet to _____ feet	
Filter Pack Material and Size: <u>20/30 Sand</u>	Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Filter Pack Length: <u>4.5</u> feet from <u>36</u> feet to <u>31.5</u> feet		
Filter Pack Seal Material and Size: <u>Fin Seal + Bentonite</u>		Filter Pack Seal Length: <u>2</u> feet from <u>31.5</u> feet to <u>29.5</u> feet			
Surface Seal Material: <u>Cement Grout</u>		Surface Seal Length: <u>29.5</u> feet from <u>29.5</u> feet to <u>0</u> feet			

WELL DEVELOPMENT DATA			
Well Development Date:	Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)		
Development Pump Type (check): <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)	<input type="checkbox"/> Centrifugal <input type="checkbox"/> Peristaltic	Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):	Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No	
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development:		Water Appearance (color and odor) At End of Development:	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: <u>AS-109</u> <u>SVE-219</u>		Site Name: <u>Lafarge Road Marking</u>		Well Install Date(s): <u>5/9/13</u> <u>SVE 4/20/13</u>	
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: <u>Hollow Stem Auger</u>	
If AG, list feet of riser above land surface:				Surface Casing Install Method: <u>NA</u>	
Borehole Depth (feet): <u>36</u>	Well Depth (feet): <u>36</u>	Borehole Diameter (inches): <u>8</u>	Manhole Diameter (inches): <u>8</u>	Well Pad Size: <u> </u> feet by <u> </u> feet	
Riser Diameter and Material: <u>2" PVC + S.S.</u>		Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)	Riser Length: <u>33</u> feet from <u>33</u> feet to <u>0</u> feet		
Screen Diameter and Material: <u>2" SS</u>		Screen Slot Size: <u>0-010</u>	Screen Length: <u>3</u> feet from <u>36</u> feet to <u>33</u> feet		
1 st Surface Casing Material: also check <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		1 st Surface Casing I.D. (inches):	1 st Surface Casing Length: <u> </u> feet from <u> </u> feet to <u> </u> feet		
2 nd Surface Casing Material: also check <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		2 nd Surface Casing I.D. (inches):	2 nd Surface Casing Length: <u> </u> feet from <u> </u> feet to <u> </u> feet		
3 rd Surface Casing Material: also check <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		3 rd Surface Casing I.D. (inches):	3 rd Surface Casing Length: <u> </u> feet from <u> </u> feet to <u> </u> feet		
Filter Pack Material and Size: <u>20/30 Sand</u>	Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Filter Pack Length: <u>4.5</u> feet from <u>36</u> feet to <u>31.5</u> feet		
Filter Pack Seal Material and Size: <u>Finer Sand + Benbrite</u>		Filter Pack Seal Length: <u>2</u> feet from <u>31.5</u> feet to <u>29.5</u> feet			
Surface Seal Material: <u>Cement Grout</u>		Surface Seal Length: <u>29.5</u> feet from <u>29.5</u> feet to <u>0</u> feet			

WELL DEVELOPMENT DATA			
Well Development Date:		Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)	
Development Pump Type (check): <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)		Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):		Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development:		Water Appearance (color and odor) At End of Development:	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: <u>AS-110</u> <u>SVE-219</u>	Site Name: Lafarge Road Marking			Well Install Date(s): <u>7/8/13</u> <u>SVE 4/20/13</u>	
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: Hollow Stem Auger	
If AG, list feet of riser above land surface:				Surface Casing Install Method: NA	
Borehole Depth (feet): <u>36</u>	Well Depth (feet): <u>36</u>	Borehole Diameter (inches): <u>8</u>	Manhole Diameter (inches): <u>8</u>	Well Pad Size: _____ feet by _____ feet	
Riser Diameter and Material: <u>2" SS + PVC</u>	Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)			Riser Length: _____ feet from _____ feet to _____ feet	
Screen Diameter and Material: <u>2" SS</u>	Screen Slot Size:			Screen Length: _____ feet from _____ feet to _____ feet	
1 st Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary	1 st Surface Casing I.D. (inches):			1 st Surface Casing Length: _____ feet from _____ feet to _____ feet	
2 nd Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary	2 nd Surface Casing I.D. (inches):			2 nd Surface Casing Length: _____ feet from _____ feet to _____ feet	
3 rd Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary	3 rd Surface Casing I.D. (inches):			3 rd Surface Casing Length: _____ feet from _____ feet to _____ feet	
Filter Pack Material and Size: <u>20/30 Sand</u>	Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			Filter Pack Length: <u>4.5</u> feet from <u>36</u> feet to <u>31.5</u> feet	
Filter Pack Seal Material and Size: <u>Fine Sand + Bentonite</u>				Filter Pack Seal Length: <u>2</u> feet from <u>31.5</u> feet to <u>29.5</u> feet	
Surface Seal Material:	<u>Cement Grout</u>			Surface Seal Length: <u>29.5</u> feet from <u>29.5</u> feet to <u>0</u> feet	

WELL DEVELOPMENT DATA			
Well Development Date:	Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)		
Development Pump Type (check): <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)	<input type="checkbox"/> Centrifugal <input type="checkbox"/> Peristaltic	Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):	Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No	
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development:		Water Appearance (color and odor) At End of Development:	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION DATA

Well Number: <u>AS-#2</u> <u>SVE-219-111</u>		Site Name: <u>Lafarge Road Marking</u>		Well Install Date(s): <u>5/8/13</u> <u>SVE 4/20/13</u>	
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade			Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: <u>Hollow Stem Auger</u>
If AG, list feet of riser above land surface: _____					
Borehole Depth (feet): <u>36</u>	Well Depth (feet): <u>36</u>	Borehole Diameter (inches): <u>8</u>	Manhole Diameter (inches): <u>8</u>	Well Pad Size: _____ feet by _____ feet	
Riser Diameter and Material: <u>2" PVC + S.S.</u>		Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)	Riser Length: <u>33</u> feet from <u>33</u> feet to <u>0</u> feet		
Screen Diameter and Material: <u>2" S.S.</u>		Screen Slot Size: <u>0.010</u>	Screen Length: <u>3</u> feet from <u>36</u> feet to <u>3</u> feet		
1 st Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		1 st Surface Casing I.D. (inches):	1 st Surface Casing Length: _____ feet from _____ feet to _____ feet		
2 nd Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		2 nd Surface Casing I.D. (inches):	2 nd Surface Casing Length: _____ feet from _____ feet to _____ feet		
3 rd Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		3 rd Surface Casing I.D. (inches):	3 rd Surface Casing Length: _____ feet from _____ feet to _____ feet		
Filter Pack Material and Size: <u>20/30 Sand</u>	Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Filter Pack Length: <u>4.5</u> feet from <u>36</u> feet to <u>31.5</u> feet		
Filter Pack Seal Material and Size: <u>Fine Sand and Bentonite</u>		Filter Pack Seal Length: <u>2</u> feet from <u>31.5</u> feet to <u>29.5</u> feet			
Surface Seal Material: <u>Cement Grout</u>		Surface Seal Length: <u>29.5</u> feet from <u>29.5</u> feet to <u>0</u> feet			

WELL DEVELOPMENT DATA

Well Development Date:		Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)			
Development Pump Type (check): <input type="checkbox"/> Centrifugal <input type="checkbox"/> Peristaltic <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)		Depth to Groundwater (before developing in feet):			
Pumping Rate (gallons per minute):		Maximum Drawdown of Groundwater During Development (feet):		Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No	
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent		Total Development Water Removed (gallons):		Development Duration (minutes):	
Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No		Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No			
Water Appearance (color and odor) At Start of Development:			Water Appearance (color and odor) At End of Development:		

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: <u>AS-112</u> <u>SVE-219</u>		Site Name: <u>Lafarge Road Marking</u>		Well Install Date(s): <u>5/10/13</u> <u>SVE 4/20/13</u>	
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: <u>Hollow Stem Auger</u>	
If AG, list feet of riser above land surface:				Surface Casing Install Method: <u>NA</u>	
Borehole Depth (feet): <u>30</u>	Well Depth (feet): <u>30</u>	Borehole Diameter (inches): <u>8</u>	Manhole Diameter (inches): <u>8</u>	Well Pad Size: _____ feet by _____ feet	
Riser Diameter and Material: <u>2", SS. + PVC</u>		Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)		Riser Length: <u>33</u> feet from <u>33</u> feet to <u>0</u> feet	
Screen Diameter and Material: <u>2", SS.</u>		Screen Slot Size: <u>0010</u>		Screen Length: <u>3</u> feet from <u>36</u> feet to <u>33</u> feet	
1 st Surface Casing Material: also check <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		1 st Surface Casing I.D. (inches):		1 st Surface Casing Length: _____ feet from _____ feet to _____ feet	
2 nd Surface Casing Material: also check <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		2 nd Surface Casing I.D. (inches):		2 nd Surface Casing Length: _____ feet from _____ feet to _____ feet	
3 rd Surface Casing Material: also check <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		3 rd Surface Casing I.D. (inches):		3 rd Surface Casing Length: _____ feet from _____ feet to _____ feet	
Filter Pack Material and Size: <u>20/30 Sand</u>		Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Filter Pack Length: <u>4.5</u> feet from <u>36</u> feet to <u>31.5</u> feet	
Filter Pack Seal Material and Size: <u>Fine Sand + Bentonite</u>				Filter Pack Seal Length: <u>2</u> feet from <u>31.5</u> feet to <u>29.5</u> feet	
Surface Seal Material:		<u>Cement Grout</u>		Surface Seal Length: <u>29.5</u> feet from <u>29.5</u> feet to <u>0</u> feet	

WELL DEVELOPMENT DATA			
Well Development Date:		Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)	
Development Pump Type (check): <input type="checkbox"/> Centrifugal <input type="checkbox"/> Peristaltic <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)		Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):		Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development:		Water Appearance (color and odor) At End of Development:	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: <u>AS-113</u> SWF-219		Site Name: <u>Lafarge Road Marking</u>		Well Install Date(s): <u>5/2/13</u> SWF 4/20/13	
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: <u>Hollow Stem Auger</u>	
If AG, list feet of riser above land surface:				Surface Casing Install Method: <u>NA</u>	
Borehole Depth (feet): <u>836</u>	Well Depth (feet): <u>830</u>	Borehole Diameter (inches): <u>8</u>	Manhole Diameter (inches): <u>8</u>	Well Pad Size: _____ feet by _____ feet	
Riser Diameter and Material: <u>SS, 2" x 2", S1 + PVC</u>	Riser/Screen Connections: <input type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)	Riser Length: <u>33</u> feet from <u>33</u> feet to <u>0</u> feet			
Screen Diameter and Material: <u>SS, 2"</u>	Screen Slot Size: <u>0.010</u>	Screen Length: <u>3</u> feet from <u>36</u> feet to <u>33</u> feet			
1 st Surface Casing Material: also check <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary	1 st Surface Casing I.D. (inches):	1 st Surface Casing Length: _____ feet from _____ feet to _____ feet			
2 nd Surface Casing Material: also check <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary	2 nd Surface Casing I.D. (inches):	2 nd Surface Casing Length: _____ feet from _____ feet to _____ feet			
3 rd Surface Casing Material: also check <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary	3 rd Surface Casing I.D. (inches):	3 rd Surface Casing Length: _____ feet from _____ feet to _____ feet			
Filter Pack Material and Size: <u>20/30 Sand</u>	Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Filter Pack Length: <u>4.5</u> feet from <u>36</u> feet to <u>31.5</u> feet			
Filter Pack Seal Material and Size: <u>Fine Sand + Bentonite</u>		Filter Pack Seal Length: <u>2</u> feet from <u>31.5</u> feet to <u>29.5</u> feet			
Surface Seal Material:	<u>Cement Grout</u>	Surface Seal Length: <u>29.5</u> feet from <u>29.5</u> feet to <u>0</u> feet			

WELL DEVELOPMENT DATA			
Well Development Date:		Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)	
Development Pump Type (check): <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)		<input type="checkbox"/> Centrifugal <input type="checkbox"/> Peristaltic	Depth to Groundwater (before developing in feet):
Pumping Rate (gallons per minute):	Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No	
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development:		Water Appearance (color and odor) At End of Development:	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: <u>AS-114</u> <u>SVE-2197</u>		Site Name: <u>Lafarge Road Marking</u>		Well Install Date(s): <u>5/8/13</u> <u>SVE 4/20/13</u>	
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: <u>Hollow Stem Auger</u>	
If AG, list feet of riser above land surface:				Surface Casing Install Method: <u>NA</u>	
Borehole Depth (feet): <u>836</u>	Well Depth (feet): <u>836</u>	Borehole Diameter (inches): <u>8</u>	Manhole Diameter (inches): <u>8</u>	Well Pad Size: _____ feet by _____ feet	
Riser Diameter and Material: <u>2" PVC+SS</u>		Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)		Riser Length: <u>33</u> feet from <u>33</u> feet to <u>0</u> feet	
Screen Diameter and Material: <u>2" SS</u>		Screen Slot Size: <u>0.010</u>		Screen Length: <u>3</u> feet from <u>36</u> feet to <u>33</u> feet	
1 st Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		1 st Surface Casing I.D. (inches):		1 st Surface Casing Length: _____ feet from _____ feet to _____ feet	
2 nd Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		2 nd Surface Casing I.D. (inches):		2 nd Surface Casing Length: _____ feet from _____ feet to _____ feet	
3 rd Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		3 rd Surface Casing I.D. (inches):		3 rd Surface Casing Length: _____ feet from _____ feet to _____ feet	
Filter Pack Material and Size: <u>20/30 Sand</u>		Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Filter Pack Length: <u>4.5</u> feet from <u>36</u> feet to <u>31.5</u> feet	
Filter Pack Seal Material and Size: <u>Fine Sand + Bentonite</u>				Filter Pack Seal Length: <u>2</u> feet from <u>31.5</u> feet to <u>29.5</u> feet	
Surface Seal Material: <u>Cement Grout</u>				Surface Seal Length: <u>29.5</u> feet from <u>29.5</u> feet to <u>0</u> feet	

WELL DEVELOPMENT DATA			
Well Development Date:		Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)	
Development Pump Type (check): <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)		Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):		Maximum Drawdown of Groundwater During Development (feet):	
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent		Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No	
Total Development Water Removed (gallons):		Development Duration (minutes):	
Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No		Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No	
Water Appearance (color and odor) At Start of Development:		Water Appearance (color and odor) At End of Development:	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA				
Well Number: <u>AS-115</u> <u>SVE-219</u>	Site Name: <u>Lafarge Road Marking</u>		Well Install Date(s): <u>5/21/13</u> <u>SVE 4/20/13</u>	
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: <u>Hollow Stem Auger</u>
If AG, list feet of riser above land surface:		Surface Casing Install Method: <u>NA</u>		
Borehole Depth (feet): <u>30</u>	Well Depth (feet): <u>30</u>	Borehole Diameter (inches): <u>8</u>	Manhole Diameter (inches): <u>8</u>	Well Pad Size: _____ feet by _____ feet
Riser Diameter and Material: <u>2", PVC + S.S.</u>	Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-T threaded <input type="checkbox"/> Other (describe)	Riser Length: <u>33</u> feet from <u>33</u> feet to <u>0</u> feet		
Screen Diameter and Material: <u>2" S.S.</u>	Screen Slot Size: <u>0.010</u>	Screen Length: <u>3</u> feet from <u>36</u> feet to <u>33</u> feet		
1 st Surface Casing Material: Also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary	1 st Surface Casing I.D. (inches):	1 st Surface Casing Length: _____ feet from _____ feet to _____ feet		
2 nd Surface Casing Material: Also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary	2 nd Surface Casing I.D. (inches):	2 nd Surface Casing Length: _____ feet from _____ feet to _____ feet		
3 rd Surface Casing Material: Also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary	3 rd Surface Casing I.D. (inches):	3 rd Surface Casing Length: _____ feet from _____ feet to _____ feet		
Filter Pack Material and Size: <u>20/30 Sand</u>	Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Filter Pack Length: <u>4.5</u> feet from <u>36</u> feet to <u>31.5</u> feet		
Filter Pack Seal Material and Size: <u>Fine Sand + Bentonite</u>		Filter Pack Seal Length: <u>2</u> feet from <u>31.5</u> feet to <u>29.5</u> feet		
Surface Seal Material:	<u>Cement Grout</u>	Surface Seal Length: <u>28.5</u> feet from <u>29.5</u> feet to <u>0</u> feet		

WELL DEVELOPMENT DATA			
Well Development Date:	Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)		
Development Pump Type (check): <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)	<input type="checkbox"/> Centrifugal <input type="checkbox"/> Peristaltic	Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):	Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No	
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development:		Water Appearance (color and odor) At End of Development:	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: <u>AS-201</u>	Site Name: <u>Lafarge Road Marking</u>			Well Install Date(s): <u>4/20 + 4/21/13</u>	
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: <u>Hollow Stem Auger</u>	
If AG, list feet of riser above land surface:				Surface Casing Install Method: <u>NA</u>	
Borehole Depth (feet): <u>35'</u>	Well Depth (feet): <u>35'</u>	Borehole Diameter (inches):	Manhole Diameter (inches):	Well Pad Size: _____ feet by _____ feet	
Riser Diameter and Material: <u>2" SS + 2" SCH 80 PVC</u>		Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)	Riser Length: <u>32</u> feet from <u>0</u> feet to <u>32</u> feet		
Screen Diameter and Material: <u>2" SS wire wrap</u>		Screen Slot Size: <u>9010"</u>	Screen Length: <u>3</u> feet from <u>32</u> feet to <u>35</u> feet		
1 st Surface Casing Material: also check <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		1 st Surface Casing I.D. (inches):	1 st Surface Casing Length: _____ feet from _____ feet to _____ feet		
2 nd Surface Casing Material: also check <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		2 nd Surface Casing I.D. (inches):	2 nd Surface Casing Length: _____ feet from _____ feet to _____ feet		
3 rd Surface Casing Material: also check <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		3 rd Surface Casing I.D. (inches):	3 rd Surface Casing Length: _____ feet from _____ feet to _____ feet		
Filter Pack Material and Size: <u>20/30 Sand</u>	Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Filter Pack Length: <u>4.5</u> feet from <u>30.5</u> feet to <u>35</u> feet		
Filter Pack Seal Material and Size: <u>Bentonite Pellets followed by fine sand</u>			Filter Pack Seal Length: <u>2</u> feet from <u>28.5</u> feet to <u>30.5</u> feet		
Surface Seal Material: <u>Cement Grout</u>			Surface Seal Length: <u>28.5</u> feet from <u>0</u> feet to <u>28.5</u> feet		

WELL DEVELOPMENT DATA			
Well Development Date:	Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)		
Development Pump Type (check): <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)	<input type="checkbox"/> Centrifugal <input type="checkbox"/> Peristaltic	Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):	Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No	
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development:		Water Appearance (color and odor) At End of Development:	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: AS-202	Site Name: Lafarge Road Marking			Well Install Date(s): 4/21/13	
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: Hollow Stem Auger	
If AG, list feet of riser above land surface:				Surface Casing Install Method: NA	
Borehole Depth (feet):	Well Depth (feet):	Borehole Diameter (inches):	Manhole Diameter (inches):	Well Pad Size: _____ feet by _____ feet	
Riser Diameter and Material:	Riser/Screen Connections: <input type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)			Riser Length: _____ feet from _____ feet to _____ feet	
Screen Diameter and Material:		Screen Slot Size:	Screen Length: _____ feet from _____ feet to _____ feet		
1 st Surface Casing Material: also check <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		1 st Surface Casing I.D. (inches):	1 st Surface Casing Length: _____ feet from _____ feet to _____ feet		
2 nd Surface Casing Material: also check <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		2 nd Surface Casing I.D. (inches):	2 nd Surface Casing Length: _____ feet from _____ feet to _____ feet		
3 rd Surface Casing Material: also check <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		3 rd Surface Casing I.D. (inches):	3 rd Surface Casing Length: _____ feet from _____ feet to _____ feet		
Filter Pack Material and Size: 20/30 Sand	Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Filter Pack Length: _____ feet from _____ feet to _____ feet		
Filter Pack Seal Material and Size:		Filter Pack Seal Length: _____ feet from _____ feet to _____ feet			
Surface Seal Material: Cement Grout		Surface Seal Length: _____ feet from _____ feet to _____ feet			

WELL DEVELOPMENT DATA			
Well Development Date:	Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)		
Development Pump Type (check): <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)	<input type="checkbox"/> Centrifugal <input type="checkbox"/> Peristaltic	Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):	Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No	
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development:		Water Appearance (color and odor) At End of Development:	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: <u>AS-203</u>	Site Name: <u>Lafarge Road Marking</u>			Well Install Date(s): <u>4/20/13</u>	
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: <u>Hollow Stem Auger</u>	
If AG, list feet of riser above land surface:				Surface Casing Install Method: <u>NA</u>	
Borehole Depth (feet): <u>35'</u>	Well Depth (feet): <u>35'</u>	Borehole Diameter (inches):	Manhole Diameter (inches):	Well Pad Size: _____ feet by _____ feet	
Riser Diameter and Material: <u>2" SS + 2" SCH 40 PVC</u>	Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)	Riser Length: <u>32</u> feet <u>32</u> from <u>0.5</u> feet to <u>3.5</u> feet			
Screen Diameter and Material: <u>2" SS wire wrap</u>		Screen Slot Size: <u>0.10"</u>		Screen Length: <u>3</u> feet from <u>32</u> feet to <u>35</u> feet	
1 st Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		1 st Surface Casing I.D. (inches):		1 st Surface Casing Length: _____ feet from _____ feet to _____ feet	
2 nd Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		2 nd Surface Casing I.D. (inches):		2 nd Surface Casing Length: _____ feet from _____ feet to _____ feet	
3 rd Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		3 rd Surface Casing I.D. (inches):		3 rd Surface Casing Length: _____ feet from _____ feet to _____ feet	
Filter Pack Material and Size: <u>20/30 Sand</u>	Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Filter Pack Length: <u>4.5</u> feet from <u>30.5</u> feet to <u>35</u> feet		
Filter Pack Seal Material and Size: <u>Bentonite Pellets followed by fine sand</u>		Filter Pack Seal Length: <u>2</u> feet from <u>28.5</u> feet to <u>30.5</u> feet			
Surface Seal Material: <u>Cement Grout</u>		Surface Seal Length: <u>28.5</u> feet from <u>0</u> feet to <u>28.5</u> feet			

WELL DEVELOPMENT DATA			
Well Development Date:		Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)	
Development Pump Type (check): <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)		Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):		Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development:		Water Appearance (color and odor) At End of Development:	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: <u>AS-204</u>	Site Name: <u>Lafarge Road Marking</u>		Well Install Date(s): <u>4/21/13</u>		
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: <u>Hollow Stem Auger</u>	
If AG, list feet of riser above land surface:				Surface Casing Install Method: <u>NA</u>	
Borehole Depth (feet): <u>35'</u>	Well Depth (feet): <u>35'</u>	Borehole Diameter (inches): <u>6"</u>	Manhole Diameter (inches):	Well Pad Size: _____ feet by _____ feet	
Riser Diameter and Material: <u>2" SS + 2" SCH 80 AL</u>	Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)			Riser Length: <u>32</u> feet from <u>0</u> feet to <u>32</u> feet	
Screen Diameter and Material: <u>2" SS</u>		Screen Slot Size: <u>0.010"</u>		Screen Length: <u>3</u> feet from <u>32</u> feet to <u>35</u> feet	
1 st Surface Casing Material also check <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		1 st Surface Casing I.D. (inches)		1 st Surface Casing Length: _____ feet from _____ feet to _____ feet	
2 nd Surface Casing Material also check <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		2 nd Surface Casing I.D. (inches)		2 nd Surface Casing Length: _____ feet from _____ feet to _____ feet	
3 rd Surface Casing Material also check <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		3 rd Surface Casing I.D. (inches)		3 rd Surface Casing Length: _____ feet from _____ feet to _____ feet	
Filter Pack Material and Size: <u>20/30 Sand</u>	Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Filter Pack Length: <u>4.5</u> feet from <u>30.5</u> feet to <u>35</u> feet		
Filter Pack Seal Material and Size: <u>Bentonite Pellets Followed by fine SD</u>			Filter Pack Seal Length: <u>2</u> feet from <u>28.5</u> feet to <u>30.5</u> feet		
Surface Seal Material: <u>Cement Grout</u>			Surface Seal Length: <u>28.5</u> feet from <u>0</u> feet to <u>28.5</u> feet		

WELL DEVELOPMENT DATA			
Well Development Date:	Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)		
Development Pump Type (check): <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)	<input type="checkbox"/> Centrifugal <input type="checkbox"/> Peristaltic	Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):	Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No	
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development:		Water Appearance (color and odor) At End of Development:	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: <i>AS-205</i>	Site Name: <i>Lafarge Road Marking</i>		Well Install Date(s): <i>4/18/13</i>		
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: <i>Hollow Stem Auger</i>	
If AG, list feet of riser above land surface:				Surface Casing Install Method: <i>NA</i>	
Borehole Depth (feet): <i>38'</i>	Well Depth (feet): <i>35'</i>	Borehole Diameter (inches): <i>6"</i>	Manhole Diameter (inches):	Well Pad Size: _____ feet by _____ feet	
Riser Diameter and Material: <i>2" SS + 2" SCH 40 PVC</i>		Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)	Riser Length: <i>32</i> feet from <i>0</i> feet to <i>32</i> feet		
Screen Diameter and Material: <i>2" SS wire wrap</i>		Screen Slot Size: <i>0.10"</i>	Screen Length: <i>3</i> feet from <i>32</i> feet to <i>35</i> feet		
1 st Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		1 st Surface Casing I.D. (inches):	1 st Surface Casing Length: _____ feet from _____ feet to _____ feet		
2 nd Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		2 nd Surface Casing I.D. (inches):	2 nd Surface Casing Length: _____ feet from _____ feet to _____ feet		
3 rd Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		3 rd Surface Casing I.D. (inches):	3 rd Surface Casing Length: _____ feet from _____ feet to _____ feet		
Filter Pack Material and Size: <i>20/30 Sand</i>	Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Filter Pack Length: <i>4.5</i> feet from <i>30.5</i> feet to <i>35</i> feet		
Filter Pack Seal Material and Size: <i>Bentonite Pellets followed by fine sand</i>		Filter Pack Seal Length: <i>2</i> feet from <i>29.5</i> feet to <i>30.5</i> feet			
Surface Seal Material: <i>Cement Grout</i>		Surface Seal Length: <i>29.5</i> feet from <i>0</i> feet to <i>29.5</i> feet			

WELL DEVELOPMENT DATA			
Well Development Date:	Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)		
Development Pump Type (check): <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)	<input type="checkbox"/> Centrifugal <input type="checkbox"/> Peristaltic	Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):	Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No	
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development:		Water Appearance (color and odor) At End of Development:	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: AS - 206	Site Name: Lafarge Road Marking			Well Install Date(s): 4/22/13	
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: Hollow Stem Auger	
If AG, list feet of riser above land surface:				Surface Casing Install Method: NA	
Borehole Depth (feet): 30	Well Depth (feet): 30	Borehole Diameter (inches): 8	Manhole Diameter (inches): 8	Well Pad Size: 2 feet by 2 feet	
Riser Diameter and Material: 2" S.S.		Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)	Riser Length: 35 32 feet from 32 feet to 0 feet		
Screen Diameter and Material: 2" S.S.		Screen Slot Size: 0.010	Screen Length: 35 32 feet from 35 36 feet to 33 32 feet		
1 st Surface Casing Material: also check <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		1 st Surface Casing I.D. (inches)	1 st Surface Casing Length: _____ feet from _____ feet to _____ feet		
2 nd Surface Casing Material: also check <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		2 nd Surface Casing I.D. (inches)	2 nd Surface Casing Length: _____ feet from _____ feet to _____ feet		
3 rd Surface Casing Material: also check <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		3 rd Surface Casing I.D. (inches)	3 rd Surface Casing Length: _____ feet from _____ feet to _____ feet		
Filter Pack Material and Size: 20/30 Sand	Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Filter Pack Length: 4.5 feet from 30 feet to 30.5 feet		
Filter Pack Seal Material and Size: Bentonite Pellets followed by Fine Seal		Filter Pack Seal Length: 2 feet from 30.5 feet to 28.5 feet			
Surface Seal Material: Cement Grout		Surface Seal Length: 29.5 feet from 24 feet to 0 feet			

WELL DEVELOPMENT DATA			
Well Development Date:		Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)	
Development Pump Type (check): <input type="checkbox"/> Centrifugal <input type="checkbox"/> Peristaltic <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)		Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):	Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No	
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development:		Water Appearance (color and odor) At End of Development:	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: <u>AS-207</u>		Site Name: <u>Lafarge Road Marking</u>		Well Install Date(s): <u>4/20/13</u>	
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: <u>Hollow Stem Auger</u>	
If AG, list feet of riser above land surface:				Surface Casing Install Method: <u>NA</u>	
Borehole Depth (feet): <u>35'</u>	Well Depth (feet): <u>35'</u>	Borehole Diameter (inches): <u>6"</u>	Manhole Diameter (inches):	Well Pad Size: ____ feet by ____ feet	
Riser Diameter and Material: <u>2" SS + 2" SCH 80 PVC</u>		Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-T Threaded <input type="checkbox"/> Other (describe)	Riser Length: <u>32</u> feet from <u>0</u> feet to <u>32</u> feet		
Screen Diameter and Material: <u>2" SS wire wrap</u>		Screen Slot Size: <u>0.10"</u>	Screen Length: <u>3</u> feet from <u>32</u> feet to <u>35</u> feet		
1 st Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		1 st Surface Casing I.D. (inches):	1 st Surface Casing Length: ____ feet from ____ feet to ____ feet		
2 nd Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		2 nd Surface Casing I.D. (inches):	2 nd Surface Casing Length: ____ feet from ____ feet to ____ feet		
3 rd Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		3 rd Surface Casing I.D. (inches):	3 rd Surface Casing Length: ____ feet from ____ feet to ____ feet		
Filter Pack Material and Size: <u>20/30 Sand</u>	Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Filter Pack Length: <u>4.5</u> feet from <u>30.5</u> feet to <u>35</u> feet		
Filter Pack Seal Material and Size: <u>Bentonite pellets followed by fine sand</u>		Filter Pack Seal Length: <u>2</u> feet from <u>28.5</u> feet to <u>30.5</u> feet			
Surface Seal Material: <u>Cement Grout</u>		Surface Seal Length: <u>28.5</u> feet from <u>0</u> feet to <u>28.5</u> feet			

WELL DEVELOPMENT DATA			
Well Development Date:		Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)	
Development Pump Type (check): <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)		Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):		Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development:		Water Appearance (color and odor) At End of Development:	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: <u>AS-208</u>		Site Name: <u>Lafarge Road Marking</u>		Well Install Date(s):	
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: <u>Hollow Stem Auger</u>	
If AG, list feet of riser above land surface:				Surface Casing Install Method: <u>NA</u>	
Borehole Depth (feet): <u>35</u>	Well Depth (feet): <u>35</u>	Borehole Diameter (inches): <u>8</u>	Manhole Diameter (inches): <u>8</u>	Well Pad Size: ___ feet by ___ feet	
Riser Diameter and Material: <u>2" S.S. with PVC</u>		Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)	Riser Length: 32 <u>30</u> feet from <u>36</u> feet to <u>2</u> feet		
Screen Diameter and Material: <u>2" S.S.</u>		Screen Slot Size: <u>0.010</u>	Screen Length: <u>3</u> feet from <u>35</u> feet to <u>32</u> feet		
1 st Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		1 st Surface Casing I.D. (inches)	1 st Surface Casing Length: ___ feet from ___ feet to ___ feet		
2 nd Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		2 nd Surface Casing I.D. (inches)	2 nd Surface Casing Length: ___ feet from ___ feet to ___ feet		
3 rd Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		3 rd Surface Casing I.D. (inches)	3 rd Surface Casing Length: ___ feet from ___ feet to ___ feet		
Filter Pack Material and Size: <u>20/30 Sand</u>	Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Filter Pack Length: <u>4.5</u> feet from <u>35</u> feet to <u>30.5</u> feet		
Filter Pack Seal Material and Size: <u>Bentonite Pellets Followed by Fine Sand</u>		Filter Pack Seal Length: <u>2</u> feet from <u>30.5</u> feet to <u>28.5</u> feet			
Surface Seal Material: <u>Cement Grout</u>		Surface Seal Length: <u>26.5</u> feet from <u>28.5</u> feet to <u>2</u> feet			

WELL DEVELOPMENT DATA			
Well Development Date:		Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)	
Development Pump Type (check): <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)		Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):		Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development:		Water Appearance (color and odor) At End of Development:	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: <i>AS-242209</i>	Site Name: <i>Lafarge Road Marking</i>		Well Install Date(s): <i>4-19-13</i>		
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: <i>Hollow Stem Auger</i>	
If AG, list feet of riser above land surface:				Surface Casing Install Method: <i>NA</i>	
Borehole Depth (feet): <i>36</i>	Well Depth (feet): <i>36</i>	Borehole Diameter (inches): <i>6</i>	Manhole Diameter (inches):	Well Pad Size: <i>2</i> feet by <i>2</i> feet	
Riser Diameter and Material: <i>2" SS</i>		Riser/Screen Connections: <input type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)	Riser Length: <i>33</i> feet from <i>33</i> feet to <i>0</i> feet		
Screen Diameter and Material: <i>2" SS</i>		Screen Slot Size: <i>0.10</i>	Screen Length: <i>3</i> feet from <i>36</i> feet to <i>33</i> feet		
1 st Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		1 st Surface Casing I.D. (inches):	1 st Surface Casing Length: _____ feet from _____ feet to _____ feet		
2 nd Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		2 nd Surface Casing I.D. (inches):	2 nd Surface Casing Length: _____ feet from _____ feet to _____ feet		
3 rd Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		3 rd Surface Casing I.D. (inches):	3 rd Surface Casing Length: _____ feet from _____ feet to _____ feet		
Filter Pack Material and Size: <i>20/30 Sand</i>	Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Filter Pack Length: <i>5</i> feet from <i>36</i> feet to <i>31</i> feet		
Filter Pack Seal Material and Size: <i>Bedrock + Fine Sand</i>		Filter Pack Seal Length: <i>2</i> feet from <i>31</i> feet to <i>29</i> feet			
Surface Seal Material: <i>Cement Grout</i>		Surface Seal Length: <i>29</i> feet from <i>29</i> feet to <i>0</i> feet			

WELL DEVELOPMENT DATA			
Well Development Date:	Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)		
Development Pump Type (check): <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)	<input type="checkbox"/> Centrifugal <input type="checkbox"/> Peristaltic	Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):	Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No	
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development:		Water Appearance (color and odor) At End of Development:	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: AS-210	Site Name: Lafarge Road Marking		Well Install Date(s): 4/20/13		
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe) AS well		Well Install Method: Hollow Stem Auger	
If AG, list feet of riser above land surface:				Surface Casing Install Method: NA	
Borehole Depth (feet): 36'	Well Depth (feet): 36'	Borehole Diameter (inches): 6"	Manhole Diameter (inches):	Well Pad Size: _____ feet by _____ feet	
Riser Diameter and Material: 2" SS + 2" SCH 80 PVC		Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)	Riser Length: 33 feet from 0 feet to 33 feet		
Screen Diameter and Material: 2" SS wire wrap		Screen Slot Size: 0.10"	Screen Length: 3 feet from 33 feet to 36 feet		
1 st Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		1 st Surface Casing I.D. (inches):	1 st Surface Casing Length: _____ feet from _____ feet to _____ feet		
2 nd Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		2 nd Surface Casing I.D. (inches):	2 nd Surface Casing Length: _____ feet from _____ feet to _____ feet		
3 rd Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		3 rd Surface Casing I.D. (inches):	3 rd Surface Casing Length: _____ feet from _____ feet to _____ feet		
Filter Pack Material and Size: 20/30 Sand	Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Filter Pack Length: 4.5 feet from 31.5 feet to 36 feet		
Filter Pack Seal Material and Size: Bentonite Pellets Followed by Fine Sand			Filter Pack Seal Length: 2 feet from 29.5 feet to 31.5 feet		
Surface Seal Material: Cement Grout			Surface Seal Length: 29.5 feet from 0 feet to 29.5 feet		

WELL DEVELOPMENT DATA			
Well Development Date:	Well Development Method (check one): <input type="checkbox"/> Surge P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)		
Development Pump Type (check): <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)	<input type="checkbox"/> Centrifugal <input type="checkbox"/> Peristaltic	Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):	Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No	
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development:		Water Appearance (color and odor) At End of Development:	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: <u>AS-211</u>	Site Name: <u>Lafarge Road Marking</u>			Well Install Date(s): <u>4/21/13</u>	
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: <u>Hollow Stem Auger</u>	
If AG, list feet of riser above land surface:				Surface Casing Install Method: <u>NA</u>	
Borehole Depth (feet): <u>20³⁶</u>	Well Depth (feet): <u>26³⁶</u>	Borehole Diameter (inches): <u>8</u>	Manhole Diameter (inches): <u>8</u>	Well Pad Size: <u> </u> feet by <u> </u> feet	
Riser Diameter and Material: <u>2" S.S.</u>		Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)	Riser Length: <u>33</u> feet from <u>36</u> feet to <u>0</u> feet		
Screen Diameter and Material: <u>2" S.S.</u>		Screen Slot Size: <u>0.010</u>	Screen Length: <u>3</u> feet from <u>36</u> feet to <u>33</u> feet		
1" Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		1" Surface Casing I.D. (inches):	1" Surface Casing Length: <u> </u> feet from <u> </u> feet to <u> </u> feet		
2" Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		2" Surface Casing I.D. (inches):	2" Surface Casing Length: <u> </u> feet from <u> </u> feet to <u> </u> feet		
3" Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		3" Surface Casing I.D. (inches):	3" Surface Casing Length: <u> </u> feet from <u> </u> feet to <u> </u> feet		
Filter Pack Material and Size: <u>20/30 Sand</u>	Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Filter Pack Length: <u>4.5</u> feet from <u>36</u> feet to <u>31.5</u> feet		
Filter Pack Seal Material and Size: <u>Bentonite Pellets followed by Fine Sand</u>		Filter Pack Seal Length: <u>2</u> feet from <u>31.5</u> feet to <u>29.5</u> feet			
Surface Seal Material: <u>Cement Grout</u>		Surface Seal Length: <u>29.5</u> feet from <u>29.5</u> feet to <u>0</u> feet			

WELL DEVELOPMENT DATA			
Well Development Date:	Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)		
Development Pump Type (check): <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)	<input type="checkbox"/> Centrifugal <input type="checkbox"/> Peristaltic	Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):	Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No	
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development:		Water Appearance (color and odor) At End of Development:	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: <u>AS-212</u>		Site Name: <u>Lafarge Road Marking</u>		Well Install Date(s): <u>4-19-13</u>	
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: <u>Hollow Stem Auger</u>	
If AG, list feet of riser above land surface:				Surface Casing Install Method: <u>NA</u>	
Borehole Depth (feet): <u>38</u>	Well Depth (feet): <u>36</u>	Borehole Diameter (inches): <u>8</u>	Manhole Diameter (inches):	Well Pad Size: <u>2</u> feet by <u>2</u> feet	
Riser Diameter and Material: <u>2" SS</u>		Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)		Riser Length: <u>37</u> feet from <u>33</u> feet to <u>0</u> feet	
Screen Diameter and Material: <u>2" SS</u>		Screen Slot Size: <u>0.10</u>		Screen Length: <u>3</u> feet from <u>36</u> feet to <u>33</u> feet	
1 st Surface Casing Material also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		1 st Surface Casing I.D. (inches):		1 st Surface Casing Length: _____ feet from _____ feet to _____ feet	
2 nd Surface Casing Material also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		2 nd Surface Casing I.D. (inches):		2 nd Surface Casing Length: _____ feet from _____ feet to _____ feet	
3 rd Surface Casing Material also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		3 rd Surface Casing I.D. (inches):		3 rd Surface Casing Length: _____ feet from _____ feet to _____ feet	
Filter Pack Material and Size: <u>20/30 Sand</u>		Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Filter Pack Length: <u>5</u> feet from <u>36</u> feet to <u>31</u> feet	
Filter Pack Seal Material and Size: <u>Bentonite Pellets</u>				Filter Pack Seal Length: <u>2</u> feet from <u>31</u> feet to <u>29</u> feet	
Surface Seal Material: <u>Cement Grout</u>				Surface Seal Length: _____ feet from <u>29</u> feet to <u>0</u> feet	

WELL DEVELOPMENT DATA			
Well Development Date:		Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)	
Development Pump Type (check): <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)		Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):		Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development:		Water Appearance (color and odor) At End of Development:	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: <u>As-219 213 PC</u>		Site Name: <u>Lafarge Road Marking</u>		Well Install Date(s): <u>4-19-13</u>	
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: <u>Hollow Stem Auger</u>	
If AG, list feet of riser above land surface:				Surface Casing Install Method: <u>NA</u>	
Borehole Depth (feet): <u>36</u>	Well Depth (feet): <u>56</u>	Borehole Diameter (inches): <u>6</u>	Manhole Diameter (inches):	Well Pad Size: <u>2</u> feet by <u>2</u> feet	
Riser Diameter and Material: <u>2" S.S.</u>		Riser/Screen Connections: <input type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)	Riser Length: <u>33</u> feet from <u>33</u> feet to <u>0</u> feet		
Screen Diameter and Material: <u>2" S.S.</u>		Screen Slot Size: <u>2/10</u>	Screen Length: <u>3</u> feet from <u>36</u> feet to <u>33</u> feet		
1 st Surface Casing Material also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		1 st Surface Casing I.D. (inches)	1 st Surface Casing Length: _____ feet from _____ feet to _____ feet		
2 nd Surface Casing Material also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		2 nd Surface Casing I.D. (inches)	2 nd Surface Casing Length: _____ feet from _____ feet to _____ feet		
3 rd Surface Casing Material also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		3 rd Surface Casing I.D. (inches)	3 rd Surface Casing Length: _____ feet from _____ feet to _____ feet		
Filter Pack Material and Size: <u>20/30 Sand</u>	Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Filter Pack Length: <u>5</u> feet from <u>36</u> feet to <u>31</u> feet		
Filter Pack Seal Material and Size: <u>Bentonite Pellets / ^{MAX} 20 Fine Sand</u>		Filter Pack Seal Length: <u>2</u> feet from <u>31</u> feet to <u>29</u> feet			
Surface Seal Material: <u>Cement Grout</u>		Surface Seal Length: <u>29</u> feet from <u>29</u> feet to <u>0</u> feet			

WELL DEVELOPMENT DATA			
Well Development Date:		Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)	
Development Pump Type (check): <input type="checkbox"/> Centrifugal <input type="checkbox"/> Peristaltic <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)		Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):	Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No	
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development:		Water Appearance (color and odor) At End of Development:	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: <u>AS-214</u>	Site Name: <u>Lafarge Road Marking</u>		Well Install Date(s): <u>4-19-13</u>		
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade If AG, list feet of riser above land surface:		Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: <u>Hollow Stem Auger</u>	
				Surface Casing Install Method: <u>NA</u>	
Borehole Depth (feet): <u>36</u>	Well Depth (feet): <u>36</u>	Borehole Diameter (inches): <u>6"</u>	Manhole Diameter (inches):	Well Pad Size: <u>2</u> feet by <u>2</u> feet	
Riser Diameter and Material: <u>2", S.S.</u>	Riser/Screen Connections: <input type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)			Riser Length: <u>33</u> feet from <u>33</u> feet to <u>0</u> feet	
Screen Diameter and Material: <u>2", S.S.</u>		Screen Slot Size: <u>D-10</u>		Screen Length: <u>3</u> feet from <u>36</u> feet to <u>33</u> feet	
1 st Surface Casing Material: also check <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		1 st Surface Casing I.D. (inches):		1 st Surface Casing Length: _____ feet from _____ feet to _____ feet	
2 nd Surface Casing Material: also check <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		2 nd Surface Casing I.D. (inches):		2 nd Surface Casing Length: _____ feet from _____ feet to _____ feet	
3 rd Surface Casing Material: also check <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		3 rd Surface Casing I.D. (inches):		3 rd Surface Casing Length: _____ feet from _____ feet to _____ feet	
Filter Pack Material and Size: <u>20/30 Sand</u>	Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Filter Pack Length: <u>5</u> feet from <u>36</u> feet to <u>31</u> feet		
Filter Pack Seal Material and Size: <u>Benfonke + Fine Sand</u>			Filter Pack Seal Length: <u>2</u> feet from <u>31</u> feet to <u>29</u> feet		
Surface Seal Material: <u>Cement Grout</u>			Surface Seal Length: <u>27</u> feet from <u>27</u> feet to <u>0</u> feet		

WELL DEVELOPMENT DATA			
Well Development Date:	Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)		
Development Pump Type (check): <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)	<input type="checkbox"/> Centrifugal <input type="checkbox"/> Peristaltic	Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):	Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No	
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development:		Water Appearance (color and odor) At End of Development:	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: <u>AS-215</u>	Site Name: <u>Lafarge Road Marking</u>		Well Install Date(s): <u>4/22/15</u>		
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: <u>Hollow Stem Auger</u>	
If AG, list feet of riser above land surface:				Surface Casing Install Method: <u>NA</u>	
Borehole Depth (feet): <u>36</u>	Well Depth (feet): <u>36</u>	Borehole Diameter (inches): <u>8</u>	Manhole Diameter (inches): <u>8</u>	Well Pad Size: <u> </u> feet by <u> </u> feet	
Riser Diameter and Material: <u>2" S.S.</u>	Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)	Riser Length: <u>3</u> feet from <u>36</u> feet to <u>33</u> feet			
Screen Diameter and Material: <u>2" SS</u>		Screen Slot Size: <u>0.010</u>		Screen Length: <u>33</u> feet from <u>33</u> feet to <u>0</u> feet	
1 st Surface Casing Material: also check <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		1 st Surface Casing I.D. (inches):		1 st Surface Casing Length: <u> </u> feet from <u> </u> feet to <u> </u> feet	
2 nd Surface Casing Material: also check <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		2 nd Surface Casing I.D. (inches):		2 nd Surface Casing Length: <u> </u> feet from <u> </u> feet to <u> </u> feet	
3 rd Surface Casing Material: also check <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		3 rd Surface Casing I.D. (inches):		3 rd Surface Casing Length: <u> </u> feet from <u> </u> feet to <u> </u> feet	
Filter Pack Material and Size: <u>20/30 Sand</u>	Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Filter Pack Length: <u>4.5</u> feet from <u>36</u> feet to <u>31.5</u> feet		
Filter Pack Seal Material and Size: <u>Scrubber Pellets followed by Fine Sand</u>		Filter Pack Seal Length: <u>2</u> feet from <u>31.5</u> feet to <u>29.5</u> feet			
Surface Seal Material: <u>Cement Grout</u>		Surface Seal Length: <u>29.5</u> feet from <u>29.5</u> feet to <u>0</u> feet			

WELL DEVELOPMENT DATA					
Well Development Date:		Well Development Method (check one): <input type="checkbox"/> Surge P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)			
Development Pump Type (check): <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)		<input type="checkbox"/> Centrifugal <input type="checkbox"/> Peristaltic		Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):		Maximum Drawdown of Groundwater During Development (feet):		Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No	
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent		Total Development Water Removed (gallons):		Development Duration (minutes):	
Water Appearance (color and odor) At Start of Development:		Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No			
Water Appearance (color and odor) At End of Development:					

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: AS-301	Site Name: Lafarge Road Marking			Well Install Date(s): 6/2/17	
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: Hollow Stem Auger	
If AG, list feet of riser above land surface:				Surface Casing Install Method: NA	
Borehole Depth (feet): 35	Well Depth (feet): 35	Borehole Diameter (inches): 8	Manhole Diameter (inches): 8	Well Pad Size: ___ feet by ___ feet	
Riser Diameter and Material: 2" / SS. + PVC	Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)			Riser Length: 32 feet from 32 feet to 0 feet	
Screen Diameter and Material: 2" / S.S.		Screen Slot Size: 0.010		Screen Length: 3 feet from 35 feet to 32 feet	
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
Filter Pack Material and Size: 20/30 Sand	Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Filter Pack Length: 4.5 feet from 25 feet to 30.5 feet		
Filter Pack Seal Material and Size: Fine Sand + Bentonite			Filter Pack Seal Length: 2 feet from 30.5 feet to 28.5 feet		
Surface Seal Material: Cement Grout			Surface Seal Length: 28.5 feet from 28.5 feet to 0 feet		

WELL DEVELOPMENT DATA			
Well Development Date:	Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)		
Development Pump Type (check): <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)	<input type="checkbox"/> Centrifugal <input type="checkbox"/> Peristaltic	Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):	Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No	
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development:		Water Appearance (color and odor) At End of Development:	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: <u>A7-502</u>	Site Name: <u>Lafarge Road Marking</u>			Well Install Date(s): <u>6/24/03</u>	
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: <u>Hollow Stem Auger</u>	
If AG, list feet of riser above land surface:				Surface Casing Install Method: <u>NA</u>	
Borehole Depth (feet): <u>35</u>	Well Depth (feet): <u>35</u>	Borehole Diameter (inches): <u>6</u>	Manhole Diameter (inches): <u>8</u>	Well Pad Size: <u> </u> feet by <u> </u> feet	
Riser Diameter and Material: <u>2" PVC & S.S.</u>	Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)			Riser Length: <u>32</u> feet from <u>32</u> feet to <u>0</u> feet	
Screen Diameter and Material: <u>2" S.S.</u>		Screen Slot Size: <u>0.010</u>		Screen Length: <u>3</u> feet from <u>35</u> feet to <u>32</u> feet	
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
Filter Pack Material and Size: <u>20/30 Sand</u>	Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Filter Pack Length: <u>4.5</u> feet from <u>35</u> feet to <u>30.5</u> feet		
Filter Pack Seal Material and Size: <u>Fine Sand</u>			Filter Pack Seal Length: <u>0.2</u> feet from <u>30.5</u> feet to <u>28.5</u> feet		
Surface Seal Material: <u>Cement Grout</u>			Surface Seal Length: <u>29.5</u> feet from <u>28.5</u> feet to <u>0</u> feet		

WELL DEVELOPMENT DATA			
Well Development Date:		Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)	
Development Pump Type (check): <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)		Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):		Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development:		Water Appearance (color and odor) At End of Development:	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: <u>AS-307</u>	Site Name: <u>Lafarge Road Marking</u>			Well Install Date(s): <u>6/21/13</u>	
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: <u>Hollow Stem Auger</u>	
If AG, list feet of riser above land surface:				Surface Casing Install Method: <u>NA</u>	
Borehole Depth (feet): <u>35</u>	Well Depth (feet): <u>35</u>	Borehole Diameter (inches): <u>8</u>	Manhole Diameter (inches): <u>8</u>	Well Pad Size: <u> </u> feet by <u> </u> feet	
Riser Diameter and Material: <u>2" PVC + S.S.</u>	Riser/Screen Connections: <input type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)			Riser Length: <u>32</u> feet from <u>32</u> feet to <u>0</u> feet	
Screen Diameter and Material: <u>2" / S.S.</u>		Screen Slot Size: <u>0-010</u>		Screen Length: <u>3</u> feet from <u>35</u> feet to <u>32</u> feet	
<input type="checkbox"/> Surface Casing Material		<input type="checkbox"/> Surface Casing ID (inches)		<input type="checkbox"/> Surface Casing Length	
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
Filter Pack Material and Size: <u>20/30 Sand</u>	Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Filter Pack Length: <u>4.5</u> feet from <u>35</u> feet to <u>30.5</u> feet		
Filter Pack Seal Material and Size: <u>Five Seal + Bentonite</u>			Filter Pack Seal Length: <u>2</u> feet from <u>30.5</u> feet to <u>28.5</u> feet		
Surface Seal Material: <u>Cement Grout</u>			Surface Seal Length: <u>28.5</u> feet from <u>28.5</u> feet to <u>0</u> feet		

WELL DEVELOPMENT DATA			
Well Development Date:		Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)	
Development Pump Type (check): <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)		Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):		Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development:		Water Appearance (color and odor) At End of Development:	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: <u>AS-304</u>	Site Name: <u>Lafarge Road Marking</u>			Well Install Date(s): <u>6/6/13</u>	
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: <u>Hollow Stem Auger</u>	
If AG, list feet of riser above land surface:				Surface Casing Install Method: <u>NA</u>	
Borehole Depth (feet): <u>35</u>	Well Depth (feet): <u>35</u>	Borehole Diameter (inches): <u>1</u>	Manhole Diameter (inches): <u>8</u>	Well Pad Size: <u> </u> feet by <u> </u> feet	
Riser Diameter and Material: <u>2" / PVC + S.S.</u>		Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)	Riser Length: <u>32</u> feet from <u>32</u> feet to <u>0</u> feet		
Screen Diameter and Material: <u>2" / S.S.</u>		Screen Slot Size: <u>0.010</u>	Screen Length: <u>3</u> feet from <u>35</u> feet to <u>32</u> feet		
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
Filter Pack Material and Size: <u>20/30 Sand</u>	Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Filter Pack Length: <u>4.5</u> feet from <u>35</u> feet to <u>30.5</u> feet		
Filter Pack Seal Material and Size: <u>Fine Sand + Bentonite</u>			Filter Pack Seal Length: <u>2</u> feet from <u>30.5</u> feet to <u>28.5</u> feet		
Surface Seal Material: <u>Cement Grout</u>			Surface Seal Length: <u>28.5</u> feet from <u>28.5</u> feet to <u>0</u> feet		

WELL DEVELOPMENT DATA			
Well Development Date:	Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)		
Development Pump Type (check): <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)	<input type="checkbox"/> Centrifugal <input type="checkbox"/> Peristaltic	Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):	Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No	
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development:		Water Appearance (color and odor) At End of Development:	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: <u>AS-305</u>		Site Name: <u>Lafarge Road Marking</u>		Well Install Date(s): <u>6/11/13</u>	
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade			Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: <u>Hollow Stem Auger</u>
If AG, list feet of riser above land surface:			Surface Casing Install Method: <u>NA</u>		
Borehole Depth (feet): <u>35</u>	Well Depth (feet): <u>35</u>	Borehole Diameter (inches): <u>8</u>	Manhole Diameter (inches): <u>8</u>	Well Pad Size: <u> </u> feet by <u> </u> feet	
Riser Diameter and Material: <u>2" / PVC 2 S.S.</u>		Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)		Riser Length: <u>32</u> feet from <u>32</u> feet to <u>0</u> feet	
Screen Diameter and Material: <u>2" / S.S.</u>		Screen Slot Size: <u>0-010</u>		Screen Length: <u>3</u> feet from <u>35</u> feet to <u>32</u> feet	
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary	
Filter Pack Material and Size: <u>20/30 Sand</u>		Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Filter Pack Length: <u>4.5</u> feet from <u>35</u> feet to <u>30.5</u> feet	
Filter Pack Seal Material and Size: <u>Fine Sand + Bentonite</u>				Filter Pack Seal Length: <u>2</u> feet from <u>30.5</u> feet to <u>28.5</u> feet	
Surface Seal Material: <u>Cement Grout</u>				Surface Seal Length: <u>28.5</u> feet from <u>28.5</u> feet to <u>0</u> feet	

WELL DEVELOPMENT DATA			
Well Development Date:		Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)	
Development Pump Type (check): <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)		Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):		Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development:		Water Appearance (color and odor) At End of Development:	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: <u>AS-300</u>		Site Name: <u>Lafarge Road Marking</u>		Well Install Date(s): <u>6/11/13</u>	
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: <u>Hollow Stem Auger</u>	
If AG, list feet of riser above land surface:				Surface Casing Install Method: <u>NA</u>	
Borehole Depth (feet): <u>35</u>	Well Depth (feet): <u>35</u>	Borehole Diameter (inches): <u>8</u>	Manhole Diameter (inches): <u>8</u>	Well Pad Size: <u> </u> feet by <u> </u> feet	
Riser Diameter and Material: <u>2" PVC + S.S.</u>		Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)	Riser Length: <u>32</u> feet from <u>30</u> feet to <u>0</u> feet		
Screen Diameter and Material: <u>2" S.S.</u>		Screen Slot Size: <u>0.010</u>	Screen Length: <u>3</u> feet from <u>35</u> feet to <u>32</u> feet		
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
Filter Pack Material and Size: <u>20/30 Sand</u>	Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Filter Pack Length: <u>4.5</u> feet from <u>35</u> feet to <u>30.5</u> feet		
Filter Pack Seal Material and Size: <u>Brandy + Fine Sand</u>			Filter Pack Seal Length: <u>2</u> feet from <u>30.5</u> feet to <u>28.5</u> feet		
Surface Seal Material: <u>Cement Grout</u>			Surface Seal Length: <u>28.5</u> feet from <u>28.5</u> feet to <u>0</u> feet		

WELL DEVELOPMENT DATA			
Well Development Date:		Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)	
Development Pump Type (check): <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)		<input type="checkbox"/> Centrifugal <input type="checkbox"/> Peristaltic	Depth to Groundwater (before developing in feet):
Pumping Rate (gallons per minute):	Maximum Drawdown of Groundwater During Development (feet):		Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development:		Water Appearance (color and odor) At End of Development:	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

112-217
 11/2/13
 11

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: AS-307		Site Name: Lafarge Road Marking		Well Install Date(s): 6/12/13	
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade			Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: Hollow Stem Auger
If AG, list feet of riser above land surface:			Surface Casing Install Method: NA		
Borehole Depth (feet): 35	Well Depth (feet): 35	Borehole Diameter (inches): 8	Manhole Diameter (inches): 8	Well Pad Size: _____ feet by _____ feet	
Riser Diameter and Material: 2" / PVC + S.S.		Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)	Riser Length: 72 feet from 32 feet to 0 feet		
Screen Diameter and Material: 2" / S.S.		Screen Slot Size: 0.010	Screen Length: 3 feet from 35 feet to 72 feet		
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
Filter Pack Material and Size: 20/30 Sand		Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Filter Pack Length: 4.5 feet from 35 feet to 30.5 feet		
Filter Pack Seal Material and Size: Fine Sand + Bentonite		Filter Pack Seal Length: 2 feet from 30.5 feet to 28.5 feet			
Surface Seal Material: Cement Grout		Surface Seal Length: 28.5 feet from 28.5 feet to 0 feet			

WELL DEVELOPMENT DATA			
Well Development Date:		Well Development Method (check one): <input type="checkbox"/> Other (describe) <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air	
Development Pump Type (check): <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)		<input type="checkbox"/> Centrifugal <input type="checkbox"/> Peristaltic	Depth to Groundwater (before developing in feet):
Pumping Rate (gallons per minute):		Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development:		Water Appearance (color and odor) At End of Development:	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: <u>AS-308</u>	Site Name: <u>Lafarge Road Marking</u>			Well Install Date(s): <u>3/12/13</u>	
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: <u>Hollow Stem Auger</u>	
If AG, list feet of riser above land surface:		Surface Casing Install Method: <u>NA</u>			
Borehole Depth (feet): <u>35</u>	Well Depth (feet): <u>35</u>	Borehole Diameter (inches): <u>8</u>	Manhole Diameter (inches): <u>8</u>	Well Pad Size: <u> </u> feet by <u> </u> feet	
Riser Diameter and Material: <u>2" PVC + S.S.</u>		Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)	Riser Length: <u>32</u> feet from <u>32</u> feet to <u>0</u> feet		
Screen Diameter and Material: <u>2" S.S.</u>		Screen Slot Size: <u>0.010</u>	Screen Length: <u>3</u> feet from <u>35</u> feet to <u>32</u> feet		
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
Filter Pack Material and Size: <u>20/30 Sand</u>	Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Filter Pack Length: <u>4.5</u> feet from <u>35</u> feet to <u>30.5</u> feet		
Filter Pack Seal Material and Size: <u>Fine Seal + Bentonite</u>			Filter Pack Seal Length: <u>2</u> feet from <u>30.5</u> feet to <u>28.5</u> feet		
Surface Seal Material: <u>Cement Grout</u>			Surface Seal Length: <u>28.5</u> feet from <u>28.5</u> feet to <u>0</u> feet		

WELL DEVELOPMENT DATA			
Well Development Date:	Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)		
Development Pump Type (check): <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)	<input type="checkbox"/> Centrifugal <input type="checkbox"/> Peristaltic	Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):	Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No	
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development:		Water Appearance (color and odor) At End of Development:	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: <u>AS-509</u>	Site Name: <u>Lafarge Road Marking</u>			Well Install Date(s): <u>6/11/13</u>	
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: <u>Hollow Stem Auger</u>	
If AG, list feet of riser above land surface:				Surface Casing Install Method: <u>NA</u>	
Borehole Depth (feet): <u>35</u>	Well Depth (feet): <u>35</u>	Borehole Diameter (inches): <u>8</u>	Manhole Diameter (inches): <u>8</u>	Well Pad Size: <u> </u> feet by <u> </u> feet	
Riser Diameter and Material: <u>2" PVC + S.S.</u>	Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)	Riser Length: <u>32</u> feet from <u>32</u> feet to <u>0</u> feet			
Screen Diameter and Material: <u>2" / S.S.</u>	Screen Slot Size: <u>0.010</u>	Screen Length: <u>3</u> feet from <u>35</u> feet to <u>32</u> feet			
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
Filter Pack Material and Size: <u>20/30 Sand</u>	Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Filter Pack Length: <u>4.5</u> feet from <u>35</u> feet to <u>30.5</u> feet		
Filter Pack Seal Material and Size: <u>Fine Seal + Bentonite</u>			Filter Pack Seal Length: <u>2</u> feet from <u>30.5</u> feet to <u>28.5</u> feet		
Surface Seal Material: <u>Cement Grout</u>			Surface Seal Length: <u>28.5</u> feet from <u>28.5</u> feet to <u>0</u> feet		

WELL DEVELOPMENT DATA			
Well Development Date:	Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)		
Development Pump Type (check): <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)	<input type="checkbox"/> Centrifugal <input type="checkbox"/> Peristaltic	Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):	Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No	
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development:		Water Appearance (color and odor) At End of Development:	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: AS-310	Site Name: Lafarge Road Marking			Well Install Date(s): 6/20/13	
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: Hollow Stem Auger	
If AG, list feet of riser above land surface:				Surface Casing Install Method: NA	
Borehole Depth (feet): 35	Well Depth (feet): 35	Borehole Diameter (inches): 8	Manhole Diameter (inches): 8	Well Pad Size: ___ feet by ___ feet	
Riser Diameter and Material: 2" / PVC + S.S.	Riser/Screen Connections: <input type="checkbox"/> Flush-T threaded <input type="checkbox"/> Other (describe)			Riser Length: 32 feet from 32 feet to 0 feet	
Screen Diameter and Material: 2" / S.S.	Screen Slot Size: 0.010			Screen Length: 3 feet from 31 feet to 32 feet	
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
Filter Pack Material and Size: 20/30 Sand	Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Filter Pack Length: 4.5 feet from 35 feet to 30.5 feet			
Filter Pack Seal Material and Size: Fine Sand + Bentonite	Filter Pack Seal Length: 2 feet from 30.5 feet to 28.5 feet				
Surface Seal Material: Cement Grout	Surface Seal Length: 28.5 feet from 28.5 feet to 0 feet				

WELL DEVELOPMENT DATA			
Well Development Date:	Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)		
Development Pump Type (check): <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)	<input type="checkbox"/> Centrifugal <input type="checkbox"/> Peristaltic	Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):	Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No	
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development:		Water Appearance (color and odor) At End of Development:	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: <u>AS-311</u> <u>SVE-214</u>	Site Name: <u>Lafarge Road Marking</u>			Well Install Date(s): <u>SVE 4/20/13</u>	
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: <u>Hollow Stem Auger</u>	
If AG, list feet of riser above land surface:				Surface Casing Install Method: <u>NA</u>	
Borehole Depth (feet): <u>33.5</u>	Well Depth (feet): <u>33.5</u>	Borehole Diameter (inches): <u>8</u>	Manhole Diameter (inches): <u>8</u>	Well Pad Size: ___ feet by ___ feet	
Riser Diameter and Material: <u>4" / PVC + S.S.</u>	Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)			Riser Length: <u>30.5</u> feet from <u>30.5</u> feet to <u>0</u> feet	
Screen Diameter and Material: <u>4" / S.S.</u>		Screen Slot Size: <u>0.010</u>		Screen Length: <u>5</u> feet from <u>33.5</u> feet to <u>30.5</u> feet	
1 st Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		1 st Surface Casing I.D. (inches):		1 st Surface Casing Length: ___ feet from ___ feet to ___ feet	
2 nd Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		2 nd Surface Casing I.D. (inches):		2 nd Surface Casing Length: ___ feet from ___ feet to ___ feet	
3 rd Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		3 rd Surface Casing I.D. (inches):		3 rd Surface Casing Length: ___ feet from ___ feet to ___ feet	
Filter Pack Material and Size: <u>20/30 Sand</u>	Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Filter Pack Length: <u>4.5</u> feet from <u>33.5</u> feet to <u>39</u> feet		
Filter Pack Seal Material and Size: <u>Fine Sand + Bentonite</u>	Filter Pack Seal Length: <u>2</u> feet from <u>29</u> feet to <u>27</u> feet				
Surface Seal Material: <u>Cement Grout</u>	Surface Seal Length: <u>27</u> feet from <u>27</u> feet to <u>0</u> feet				

WELL DEVELOPMENT DATA			
Well Development Date:		Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)	
Development Pump Type (check): <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)		Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):		Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development:		Water Appearance (color and odor) At End of Development:	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: <u>AS-312</u>	Site Name: <u>Lafarge Road Marking</u>			Well Install Date(s): <u>6/11/13</u>	
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: <u>Hollow Stem Auger</u>	
If AG, list feet of riser above land surface:				Surface Casing Install Method: <u>NA</u>	
Borehole Depth (feet): <u>35</u>	Well Depth (feet): <u>35</u>	Borehole Diameter (inches): <u>8</u>	Manhole Diameter (inches): <u>8</u>	Well Pad Size: ___ feet by ___ feet	
Riser Diameter and Material: <u>2" PVC + S.S.</u>		Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)	Riser Length: <u>52</u> feet from <u>32</u> feet to <u>0</u> feet		
Screen Diameter and Material: <u>2" / S.S.</u>		Screen Slot Size: <u>0.010</u>	Screen Length: <u>3</u> feet from <u>35</u> feet to <u>52</u> feet		
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
Filter Pack Material and Size: <u>20/30 Sand</u>	Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Filter Pack Length: <u>4.5</u> feet from <u>35</u> feet to <u>30.5</u> feet		
Filter Pack Seal Material and Size: <u>Fine Sand + Bentonite</u>			Filter Pack Seal Length: <u>2</u> feet from <u>30.5</u> feet to <u>28.5</u> feet		
Surface Seal Material: <u>Cement Grout</u>			Surface Seal Length: <u>28.5</u> feet from <u>28.5</u> feet to <u>0</u> feet		

WELL DEVELOPMENT DATA			
Well Development Date:	Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)		
Development Pump Type (check): <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)	<input type="checkbox"/> Centrifugal <input type="checkbox"/> Peristaltic	Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):	Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No	
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development:		Water Appearance (color and odor) At End of Development:	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: <u>AS-313</u>	Site Name: <u>Lafarge Road Marking</u>			Well Install Date(s): <u>6/18/13</u>	
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: <u>Hollow Stem Auger</u>	
If AG, list feet of riser above land surface:				Surface Casing Install Method: <u>NA</u>	
Borehole Depth (feet): <u>335</u>	Well Depth (feet): <u>335</u>	Borehole Diameter (inches): <u>8</u>	Manhole Diameter (inches): <u>8</u>	Well Pad Size: _____ feet by _____ feet	
Riser Diameter and Material: <u>2" / PVC + S.S.</u>	Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)			Riser Length: <u>32</u> feet from <u>32</u> feet to <u>0</u> feet	
Screen Diameter and Material: <u>2" / S.S.</u>		Screen Slot Size: <u>0.010</u>		Screen Length: <u>5</u> feet from <u>35</u> feet to <u>32</u> feet	
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
Filter Pack Material and Size: <u>20/30 Sand</u>	Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Filter Pack Length: <u>4.5</u> feet from <u>35</u> feet to <u>32.5</u> feet		
Filter Pack Seal Material and Size: <u>Fine Sand + Bentonite</u>			Filter Pack Seal Length: <u>2</u> feet from <u>30.5</u> feet to <u>28.5</u> feet		
Surface Seal Material: <u>Cement Grout</u>		Surface Seal Length: <u>28.5</u> feet from <u>28.5</u> feet to <u>0</u> feet			

WELL DEVELOPMENT DATA			
Well Development Date:	Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)		
Development Pump Type (check): <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)	<input type="checkbox"/> Centrifugal <input type="checkbox"/> Peristaltic	Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):	Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No	
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development:		Water Appearance (color and odor) At End of Development:	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: <u>AS-314</u>	Site Name: <u>Lafarge Road Marking</u>			Well Install Date(s): <u>6/19/15</u>	
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: <u>Hollow Stem Auger</u>	
If AG, list feet of riser above land surface:				Surface Casing Install Method: <u>NA</u>	
Borehole Depth (feet): <u>35</u>	Well Depth (feet): <u>35</u>	Borehole Diameter (inches): <u>8</u>	Manhole Diameter (inches): <u>8</u>	Well Pad Size: <u> </u> feet by <u> </u> feet	
Riser Diameter and Material: <u>2" PVC + SS</u>		Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)	Riser Length: <u>32</u> feet from <u>38</u> feet to <u>0</u> feet		
Screen Diameter and Material: <u>2" / S.S.</u>		Screen Slot Size: <u>0-010</u>	Screen Length: <u>3</u> feet from <u>35</u> feet to <u>32</u> feet		
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
Filter Pack Material and Size: <u>20/30 Sand</u>	Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Filter Pack Length: <u>4.5</u> feet from <u>35</u> feet to <u>30.5</u> feet		
Filter Pack Seal Material and Size: <u>Fine Sand + Grout</u>			Filter Pack Seal Length: <u>2</u> feet from <u>30.5</u> feet to <u>28.5</u> feet		
Surface Seal Material: <u>Cement Grout</u>			Surface Seal Length: <u>28.5</u> feet from <u>28.5</u> feet to <u>0</u> feet		

WELL DEVELOPMENT DATA					
Well Development Date:		Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)			
Development Pump Type (check): <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)			Depth to Groundwater (before developing in feet):		
Pumping Rate (gallons per minute):		Maximum Drawdown of Groundwater During Development (feet):		Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No	
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent		Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No	
Water Appearance (color and odor) At Start of Development:			Water Appearance (color and odor) At End of Development:		

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: AS-315	Site Name: Lafarge Road Marking			Well Install Date(s): 6/10/13	
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: Hollow Stem Auger	
If AG, list feet of riser above land surface:				Surface Casing Install Method: NA	
Borehole Depth (feet): 35	Well Depth (feet): 35	Borehole Diameter (inches): 8	Manhole Diameter (inches): 8	Well Pad Size: _____ feet by _____ feet	
Riser Diameter and Material: 2" / PVC + S.S.		Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)		Riser Length: 32 feet from 32 feet to 0 feet	
Screen Diameter and Material: 2" / S.S.		Screen Slot Size: 0.010		Screen Length: 3 feet from 35 feet to 32 feet	
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
Filter Pack Material and Size: 20/30 Sand		Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Filter Pack Length: 4.5 feet from 35 feet to 30.5 feet	
Filter Pack Seal Material and Size: Fine Seal + Bentonite				Filter Pack Seal Length: 2 feet from 30.5 feet to 28.5 feet	
Surface Seal Material: Cement Grout				Surface Seal Length: 28.5 feet from 28.5 feet to 0 feet	

WELL DEVELOPMENT DATA			
Well Development Date:		Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)	
Development Pump Type (check): <input type="checkbox"/> Centrifugal <input type="checkbox"/> Peristaltic <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)		Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):		Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development:		Water Appearance (color and odor) At End of Development:	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: AS-401		Site Name: Lafarge Road Marking		Well Install Date(s): 6/7/13	
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: Hollow Stem Auger	
If AG, list feet of riser above land surface:				Surface Casing Install Method: NA	
Borehole Depth (feet): 35	Well Depth (feet): 35	Borehole Diameter (inches): 8	Manhole Diameter (inches): 8	Well Pad Size: _____ feet by _____ feet	
Riser Diameter and Material: 8" / PVC + S.S.		Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)		Riser Length: 32 feet from 32 feet to 0 feet	
Screen Diameter and Material: 2" / S.S.		Screen Slot Size: 0.010		Screen Length: 3 feet from 35 feet to 32 feet	
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
Filter Pack Material and Size: 20/30 Sand		Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Filter Pack Length: 4.5 feet from 35 feet to 30.5 feet	
Filter Pack Seal Material and Size: Fine Sand + Bentonite				Filter Pack Seal Length: 2 feet from 30.5 feet to 28.5 feet	
Surface Seal Material: Cement Grout				Surface Seal Length: 28.5 feet from 28.5 feet to 0 feet	

WELL DEVELOPMENT DATA			
Well Development Date:		Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)	
Development Pump Type (check): <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)		Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):		Maximum Drawdown of Groundwater During Development (feet):	
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent		Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No	
Total Development Water Removed (gallons):		Development Duration (minutes):	
Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No			
Water Appearance (color and odor) At Start of Development:		Water Appearance (color and odor) At End of Development:	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: <u>AS-402</u>	Site Name: <u>Lafarge Road Marking</u>			Well Install Date(s): <u>6/6/13</u>	
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: <u>Hollow Stem Auger</u>	
If AG, list feet of riser above land surface:				Surface Casing Install Method: <u>NA</u>	
Borehole Depth (feet): <u>35</u>	Well Depth (feet): <u>35</u>	Borehole Diameter (inches): <u>8</u>	Manhole Diameter (inches): <u>8</u>	Well Pad Size: ___ feet by ___ feet	
Riser Diameter and Material: <u>2" / S.S. + PVC</u>	Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)			Riser Length: <u>32</u> feet from <u>32</u> feet to <u>0</u> feet	
Screen Diameter and Material: <u>2" / S.S.</u>		Screen Slot Size: <u>0.010</u>		Screen Length: <u>3</u> feet from <u>35</u> feet to <u>32</u> feet	
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
Filter Pack Material and Size: <u>20/30 Sand</u>	Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Filter Pack Length: <u>4.5</u> feet from <u>35</u> feet to <u>30.5</u> feet			
Filter Pack Seal Material and Size: <u>Fine Sand + Bentonite</u>	Filter Pack Seal Length: <u>2</u> feet from <u>30.5</u> feet to <u>28.5</u> feet				
Surface Seal Material: <u>Cement Grout</u>	Surface Seal Length: <u>28.5</u> feet from <u>28.5</u> feet to <u>0</u> feet				

WELL DEVELOPMENT DATA			
Well Development Date:	Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)		
Development Pump Type (check): <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)	<input type="checkbox"/> Centrifugal <input type="checkbox"/> Peristaltic	Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):	Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No	
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development:		Water Appearance (color and odor) At End of Development:	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: AS-403	Site Name: Lafarge Road Marking			Well Install Date(s): 6/1/13	
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: Hollow Stem Auger	
If AG, list feet of riser above land surface:				Surface Casing Install Method: NA	
Borehole Depth (feet): 35	Well Depth (feet): 35	Borehole Diameter (inches): 8	Manhole Diameter (inches): 8	Well Pad Size: _____ feet by _____ feet	
Riser Diameter and Material: 4" / PVC + S.S.	Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)		Riser Length: 32 feet from 32 feet to 0 feet		
Screen Diameter and Material: 4" / S.S.		Screen Slot Size: 0.010	Screen Length: 3 feet from 25 feet to 32 feet		
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
Filter Pack Material and Size: 20/30 Sand	Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Filter Pack Length: 4.5 feet from 35 feet to 30.5 feet		
Filter Pack Seal Material and Size: Fine Seal + Bentonite		Filter Pack Seal Length: 2 feet from 30.5 feet to 28.5 feet			
Surface Seal Material: Cement Grout		Surface Seal Length: 28.5 feet from 28.5 feet to 0 feet			

WELL DEVELOPMENT DATA			
Well Development Date:	Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)		
Development Pump Type (check): <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)		<input type="checkbox"/> Centrifugal <input type="checkbox"/> Peristaltic	Depth to Groundwater (before developing in feet):
Pumping Rate (gallons per minute):		Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development:		Water Appearance (color and odor) At End of Development:	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: AS-404		Site Name: Lafarge Road Marking		Well Install Date(s): 6/1/13	
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: Hollow Stem Auger	
If AG, list feet of riser above land surface:				Surface Casing Install Method: NA	
Borehole Depth (feet): 35	Well Depth (feet): 34	Borehole Diameter (inches): 8	Manhole Diameter (inches): 8	Well Pad Size: _____ feet by _____ feet	
Riser Diameter and Material: 4" / SS + PVC		Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)		Riser Length: 31 feet from 31 feet to 0 feet	
Screen Diameter and Material: 4" / S.S.		Screen Slot Size: 0.010		Screen Length: 3 feet from 34 feet to 31 feet	
1" Surface Casing Material: Material check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		1" Surface Casing I.D. (inches):		1" Surface Casing Length: _____ feet from _____ feet to _____ feet	
2" Surface Casing Material: Material check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		2" Surface Casing I.D. (inches):		2" Surface Casing Length: _____ feet from _____ feet to _____ feet	
3" Surface Casing Material: Material check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		3" Surface Casing I.D. (inches):		3" Surface Casing Length: _____ feet from _____ feet to _____ feet	
Filter Pack Material and Size: 20/30 Sand		Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Filter Pack Length: 4.5 feet from 34 feet to 29.5 feet	
Filter Pack Seal Material and Size: Fine Sand to Bentonite				Filter Pack Seal Length: 2 feet from 29.5 feet to 27.5 feet	
Surface Seal Material: Cement Grout				Surface Seal Length: 27.5 feet from 29.5 feet to 0 feet	

WELL DEVELOPMENT DATA			
Well Development Date:		Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)	
Development Pump Type (check): <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)		Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):		Maximum Drawdown of Groundwater During Development (feet):	
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent		Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No	
Total Development Water Removed (gallons):		Development Duration (minutes):	
Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No		Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No	
Water Appearance (color and odor) At Start of Development:		Water Appearance (color and odor) At End of Development:	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: <u>AS-405</u>	Site Name: <u>Lafarge Road Marking</u>			Well Install Date(s): <u>6/6/13</u>	
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: <u>Hollow Stem Auger</u>	
If AG, list feet of riser above land surface:				Surface Casing Install Method: <u>NA</u>	
Borehole Depth (feet): <u>39</u>	Well Depth (feet): <u>35</u>	Borehole Diameter (inches): <u>8</u>	Manhole Diameter (inches): <u>8</u>	Well Pad Size: <u> </u> feet by <u> </u> feet	
Riser Diameter and Material: <u>2" / PVC + SS</u>		Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)	Riser Length: <u>32</u> feet from <u>32</u> feet to <u>0</u> feet		
Screen Diameter and Material: <u>2" / S.S.</u>		Screen Slot Size: <u>0.010</u>	Screen Length: <u>5</u> feet from <u>35</u> feet to <u>32</u> feet		
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
Filter Pack Material and Size: <u>20/30 Sand</u>	Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Filter Pack Length: <u>4.5</u> feet from <u>35</u> feet to <u>30.5</u> feet		
Filter Pack Seal Material and Size: <u>Fine Sand + Bentonite</u>		Filter Pack Seal Length: <u>2</u> feet from <u>30.5</u> feet to <u>28.5</u> feet			
Surface Seal Material: <u>Cement Grout</u>		Surface Seal Length: <u>28.5</u> feet from <u>28.5</u> feet to <u>0</u> feet			

WELL DEVELOPMENT DATA			
Well Development Date:		Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)	
Development Pump Type (check): <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)		Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):		Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development:		Water Appearance (color and odor) At End of Development:	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: <u>AS-406</u>	Site Name: <u>Lafarge Road Marking</u>			Well Install Date(s): <u>6/5/13</u>	
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: <u>Hollow Stem Auger</u>	
If AG, list feet of riser above land surface:				Surface Casing Install Method: <u>NA</u>	
Borehole Depth (feet): <u>35</u>	Well Depth (feet): <u>35</u>	Borehole Diameter (inches): <u>8</u>	Manhole Diameter (inches): <u>8</u>	Well Pad Size: <u> </u> feet by <u> </u> feet	
Riser Diameter and Material: <u>2" / PVC + SS</u>		Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)	Riser Length: <u>32</u> feet from <u>32</u> feet to <u>0</u> feet		
Screen Diameter and Material: <u>2" / S.S.</u>		Screen Slot Size: <u>0.010</u>	Screen Length: <u>3</u> feet from <u>35</u> feet to <u>32</u> feet		
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
Filter Pack Material and Size: <u>20/30 Sand</u>	Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Filter Pack Length: <u>4.5</u> feet from <u>35</u> feet to <u>30.5</u> feet		
Filter Pack Seal Material and Size: <u>Fine Sand + Bentonite</u>	Filter Pack Seal Length: <u>2</u> feet from <u>30.5</u> feet to <u>28.5</u> feet				
Surface Seal Material: <u>Cement Grout</u>	Surface Seal Length: <u>28.5</u> feet from <u>28.5</u> feet to <u>0</u> feet				

WELL DEVELOPMENT DATA			
Well Development Date:	Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)		
Development Pump Type (check): <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)	<input type="checkbox"/> Centrifugal <input type="checkbox"/> Peristaltic	Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):	Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No	
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development:		Water Appearance (color and odor) At End of Development:	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: <u>45-407</u>	Site Name: <u>Lafarge Road Marking</u>			Well Install Date(s): <u>6/5/13</u>	
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: <u>Hollow Stem Auger</u>	
If AG, list feet of riser above land surface:				Surface Casing Install Method: <u>NA</u>	
Borehole Depth (feet): <u>35</u>	Well Depth (feet): <u>35</u>	Borehole Diameter (inches): <u>8</u>	Manhole Diameter (inches): <u>8</u>	Well Pad Size: _____ feet by _____ feet	
Riser Diameter and Material: <u>2" / PVC & S.S.</u>		Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)		Riser Length: <u>33</u> feet from <u>33</u> feet to <u>0</u> feet	
Screen Diameter and Material: <u>2" / S.S.</u>		Screen Slot Size: <u>0010</u>		Screen Length: <u>3</u> feet from <u>35</u> feet to <u>33</u> feet	
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
Filter Pack Material and Size: <u>20/30 Sand</u>		Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Filter Pack Length: <u>4.5</u> feet from <u>35</u> feet to <u>30.5</u> feet	
Filter Pack Seal Material and Size: <u>Fine Sand + Bentonite</u>				Filter Pack Seal Length: <u>2</u> feet from <u>30.5</u> feet to <u>28.5</u> feet	
Surface Seal Material: <u>Cement Grout</u>				Surface Seal Length: <u>28.5</u> feet from <u>28.5</u> feet to <u>0</u> feet	

WELL DEVELOPMENT DATA			
Well Development Date:		Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)	
Development Pump Type (check): <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)		Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):		Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development:		Water Appearance (color and odor) At End of Development:	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA				
Well Number: AS-408	Site Name: Lafarge Road Marking		Well Install Date(s): 6/1/13	
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: Hollow Stem Auger
If AG, list feet of riser above land surface:				Surface Casing Install Method: NA
Borehole Depth (feet): 35	Well Depth (feet): 35	Borehole Diameter (inches): 8	Manhole Diameter (inches): 8	Well Pad Size: _____ feet by _____ feet
Riser Diameter and Material: 4" / S.S. + PVC	Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-T threaded <input type="checkbox"/> Other (describe)	Riser Length: 32 feet from 32 feet to 0 feet		
Screen Diameter and Material: 4" / S.S.	Screen Slot Size: 0.010	Screen Length: 3 feet from 35 feet to 32 feet		
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary				
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary				
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary				
Filter Pack Material and Size: 20/30 Sand	Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Filter Pack Length: 4.5 feet from 35 feet to 30.5 feet		
Filter Pack Seal Material and Size: Fire Seal + Bentonite		Filter Pack Seal Length: 2 feet from 30.5 feet to 28.5 feet		
Surface Seal Material: Cement Grout		Surface Seal Length: 28.5 feet from 28.5 feet to 0 feet		

WELL DEVELOPMENT DATA			
Well Development Date:	Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)		
Development Pump Type (check): <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)	<input type="checkbox"/> Centrifugal <input type="checkbox"/> Peristaltic	Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):	Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No	
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development:		Water Appearance (color and odor) At End of Development:	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA				
Well Number: <u>AS -409</u>	Site Name: <u>Lafarge Road Marking</u>	Well Install Date(s): <u>6/19/03</u>		
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: <u>Hollow Stem Auger</u>
If AG, list feet of riser above land surface:		Surface Casing Install Method: <u>NA</u>		
Borehole Depth (feet): <u>35</u>	Well Depth (feet): <u>35</u>	Borehole Diameter (inches): <u>8</u>	Manhole Diameter (inches): <u>8</u>	Well Pad Size: _____ feet by _____ feet
Riser Diameter and Material: <u>2" / PVC + S-S.</u>	Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)	Riser Length: <u>32</u> feet from <u>32</u> feet to <u>0</u> feet		
Screen Diameter and Material: <u>2" / S-S</u>	Screen Slot Size: <u>0-010</u>	Screen Length: <u>3</u> feet from <u>35</u> feet to <u>32</u> feet		
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary				
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary				
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary				
Filter Pack Material and Size: <u>20/30 Sand</u>	Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Filter Pack Length: <u>4.5</u> feet from <u>35</u> feet to <u>30.5</u> feet		
Filter Pack Seal Material and Size: <u>Fine Sand + Bentonite</u>	Filter Pack Seal Length: <u>2</u> feet from <u>30.5</u> feet to <u>28.5</u> feet			
Surface Seal Material: <u>Cement Grout</u>	Surface Seal Length: <u>28.5</u> feet from <u>28.5</u> feet to <u>0</u> feet			

WELL DEVELOPMENT DATA			
Well Development Date:	Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)		
Development Pump Type (check): <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)	<input type="checkbox"/> Centrifugal <input type="checkbox"/> Peristaltic	Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):	Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No	
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development:		Water Appearance (color and odor) At End of Development:	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: <u>AS-410</u>	Site Name: <u>Lafarge Road Marking</u>			Well Install Date(s): <u>6/13/13</u>	
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: <u>Hollow Stem Auger</u>	
If AG, list feet of riser above land surface:				Surface Casing Install Method: <u>NA</u>	
Borehole Depth (feet): <u>35</u>	Well Depth (feet): <u>35</u>	Borehole Diameter (inches): <u>8</u>	Manhole Diameter (inches): <u>8</u>	Well Pad Size: <u> </u> feet by <u> </u> feet	
Riser Diameter and Material: <u>2" / PVC & SS.</u>		Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)	Riser Length: <u>32</u> feet from <u>32</u> feet to <u>0</u> feet		
Screen Diameter and Material: <u>2" / S.S.</u>		Screen Slot Size: <u>0.010</u>	Screen Length: <u>3</u> feet from <u>37</u> feet to <u>32</u> feet		
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
Filter Pack Material and Size: <u>20/30 Sand</u>		Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Filter Pack Length: <u>4.5</u> feet from <u>35</u> feet to <u>30.5</u> feet		
Filter Pack Seal Material and Size: <u>Fine Sand + Bentonite</u>		Filter Pack Seal Length: <u>2</u> feet from <u>32.5</u> feet to <u>28.5</u> feet			
Surface Seal Material: <u>Cement Grout</u>		Surface Seal Length: <u>28.5</u> feet from <u>28.5</u> feet to <u>0</u> feet			

WELL DEVELOPMENT DATA			
Well Development Date:		Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)	
Development Pump Type (check): <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)		Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):		Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development:		Water Appearance (color and odor) At End of Development:	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: <u>AS-411</u>	Site Name: <u>Lafarge Road Marking</u>			Well Install Date(s): <u>6/14/13</u>	
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: <u>Hollow Stem Auger</u>	
If AG, list feet of riser above land surface:				Surface Casing Install Method: <u>NA</u>	
Borehole Depth (feet): <u>35</u>	Well Depth (feet): <u>35</u>	Borehole Diameter (inches): <u>8</u>	Manhole Diameter (inches): <u>8</u>	Well Pad Size: <u> </u> feet by <u> </u> feet	
Riser Diameter and Material: <u>2" PVC + SS.</u>	Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)	Riser Length: <u>32</u> feet from <u>32</u> feet to <u>0</u> feet			
Screen Diameter and Material: <u>2" SS.</u>	Screen Slot Size: <u>0.010</u>	Screen Length: <u>3</u> feet from <u>35</u> feet to <u>32</u> feet			
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
Filter Pack Material and Size: <u>20/30 Sand</u>	Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Filter Pack Length: <u>4.5</u> feet from <u>35</u> feet to <u>30.5</u> feet		
Filter Pack Seal Material and Size: <u>Fine Sand + Bentonite</u>	Filter Pack Seal Length: <u>2</u> feet from <u>30.5</u> feet to <u>28.5</u> feet				
Surface Seal Material: <u>Cement Grout</u>	Surface Seal Length: <u>28.5</u> feet from <u>28.5</u> feet to <u>0</u> feet				

WELL DEVELOPMENT DATA			
Well Development Date:		Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)	
Development Pump Type (check): <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)		Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):		Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development:		Water Appearance (color and odor) At End of Development:	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: AS-412	Site Name: Lafarge Road Marking			80	Well Install Date(s): 6/2/13
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: Hollow Stem Auger	
If AG, list feet of riser above land surface:				Surface Casing Install Method: NA	
Borehole Depth (feet): 35	Well Depth (feet): 35	Borehole Diameter (inches): 8	Manhole Diameter (inches): 8	Well Pad Size: _____ feet by _____ feet	
Riser Diameter and Material: 4" SS + PVC	Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)	Riser Length: 32 feet from 32 feet to 0 feet			
Screen Diameter and Material: 4" SS		Screen Slot Size: 0.010		Screen Length: 3 feet from 35 feet to 32 feet	
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
Filter Pack Material and Size: 20/30 Sand	Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Filter Pack Length: 4.5 feet from 35 feet to 30.5 feet		
Filter Pack Seal Material and Size: Fine Sand + Bentonite		Filter Pack Seal Length: 2 feet from 30.5 feet to 28.5 feet			
Surface Seal Material: Cement Grout		Surface Seal Length: 28.5 feet from 28.5 feet to 0 feet			

WELL DEVELOPMENT DATA			
Well Development Date:		Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)	
Development Pump Type (check): <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)		Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):		Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development:		Water Appearance (color and odor) At End of Development:	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: AS-413		Site Name: Lafarge Road Marking		Well Install Date(s): 6/3/13	
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: Hollow Stem Auger	
If AG, list feet of riser above land surface:				Surface Casing Install Method: NA	
Borehole Depth (feet): 35	Well Depth (feet): 35	Borehole Diameter (inches): 8	Manhole Diameter (inches): 8	Well Pad Size: ___ feet by ___ feet	
Riser Diameter and Material: 4" / PVC + S.S.	Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)	Riser Length: 32 feet from 32 feet to 0 feet			
Screen Diameter and Material: 4" / S.S.	Screen Slot Size: 2010	Screen Length: 3 feet from 35 feet to 32 feet			
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
Filter Pack Material and Size: 20/30 Sand	Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Filter Pack Length: 4.5 feet from 35 feet to 30.5 feet			
Filter Pack Seal Material and Size: Fine Sand + Bentonite	Filter Pack Seal Length: 2 feet from 30.5 feet to 28.5 feet				
Surface Seal Material: Cement Grout	Surface Seal Length: 28.5 feet from 28.5 feet to 0 feet				

WELL DEVELOPMENT DATA			
Well Development Date:		Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)	
Development Pump Type (check): <input type="checkbox"/> Centrifugal <input type="checkbox"/> Peristaltic <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)		Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):	Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No	
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development:		Water Appearance (color and odor) At End of Development:	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA				
Well Number: AS-414	Site Name: Lafarge Road Marking	Well Install Date(s): 6/18/13		
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: Hollow Stem Auger
If AG, list feet of riser above land surface:		Surface Casing Install Method: NA		
Borehole Depth (feet): 35	Well Depth (feet): 35	Borehole Diameter (inches): 8	Manhole Diameter (inches): 8	Well Pad Size: ___ feet by ___ feet
Riser Diameter and Material: 2" / PVC + S.S.	Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)	Riser Length: 32 feet from 32 feet to 0 feet		
Screen Diameter and Material: 2" / S.S.	Screen Slot Size: 0.010	Screen Length: 3 feet from 35 feet to 32 feet		
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary				
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary				
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary				
Filter Pack Material and Size: 20/30 Sand	Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Filter Pack Length: 4.5 feet from 35 feet to 30.5 feet		
Filter Pack Seal Material and Size: Fine Sand + Benbait		Filter Pack Seal Length: 2 feet from 30.5 feet to 28.5 feet		
Surface Seal Material: Cement Grout		Surface Seal Length: 28.5 feet from 28.5 feet to 0 feet		

WELL DEVELOPMENT DATA			
Well Development Date:	Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)		
Development Pump Type (check): <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)	<input type="checkbox"/> Centrifugal <input type="checkbox"/> Peristaltic	Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):	Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No	
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development:		Water Appearance (color and odor) At End of Development:	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: <u>AS-415</u>	Site Name: <u>Lafarge Road Marking</u>			Well Install Date(s): <u>6/10/17</u>	
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: <u>Hollow Stem Auger</u>	
If AG, list feet of riser above land surface:				Surface Casing Install Method: <u>NA</u>	
Borehole Depth (feet): <u>35</u>	Well Depth (feet): <u>35</u>	Borehole Diameter (inches): <u>8</u>	Manhole Diameter (inches): <u>8</u>	Well Pad Size: _____ feet by _____ feet	
Riser Diameter and Material: <u>2" PVC S.S.</u>	Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)	Riser Length: <u>32</u> feet from <u>32</u> feet to <u>0</u> feet			
Screen Diameter and Material: <u>2" S.S.</u>		Screen Slot Size: <u>0.010</u>	Screen Length: <u>5</u> feet from <u>35</u> feet to <u>32</u> feet		
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
Filter Pack Material and Size: <u>20/30 Sand</u>	Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Filter Pack Length: <u>4.5</u> feet from <u>35</u> feet to <u>30.5</u> feet		
Filter Pack Seal Material and Size: <u>Fine Sand + Bentonite</u>	Filter Pack Seal Length: <u>2</u> feet from <u>30.5</u> feet to <u>28.5</u> feet				
Surface Seal Material: <u>Cement Grout</u>	Surface Seal Length: <u>28.5</u> feet from <u>28.5</u> feet to <u>0</u> feet				

WELL DEVELOPMENT DATA			
Well Development Date:	Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)		
Development Pump Type (check): <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)	<input type="checkbox"/> Centrifugal <input type="checkbox"/> Peristaltic	Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):	Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No	
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development:		Water Appearance (color and odor) At End of Development:	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: AS-416	Site Name: Lafarge Road Marking			Well Install Date(s): 5/31/13	
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: Hollow Stem Auger	
If AG, list feet of riser above land surface:				Surface Casing Install Method: NA	
Borehole Depth (feet): 36	Well Depth (feet): 34	Borehole Diameter (inches): 8	Manhole Diameter (inches): 8	Well Pad Size: _____ feet by _____ feet	
Riser Diameter and Material: 4" / PVC	Riser/Screen Connections: <input type="checkbox"/> Flush-T threaded <input type="checkbox"/> Other (describe)			Riser Length: 31.5 feet from 3.5 feet to 0.0 feet	
Screen Diameter and Material: 4" S.S.		Screen Slot Size: 0.010		Screen Length: 32.0 feet from 3.5 feet to 32.5 feet	
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
Filter Pack Material and Size: 20/30 Sand	Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Filter Pack Length: 21.0 9.5 feet from 29.5 feet to 4 feet 29.5		
Filter Pack Seal Material and Size: Five Seal, Bristle		Filter Pack Seal Length: 2 feet from 29.5 feet to 27.0 feet			
Surface Seal Material: Cement Grout		Surface Seal Length: 27.5 feet from 27.5 feet to 0 feet			

WELL DEVELOPMENT DATA			
Well Development Date:		Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)	
Development Pump Type (check): <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)		Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):		Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development:		Water Appearance (color and odor) At End of Development:	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: <u>AS-417</u>	Site Name: <u>Lafarge Road Marking</u>			Well Install Date(s): <u>6/3/13</u>	
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: <u>Hollow Stem Auger</u>	
If AG, list feet of riser above land surface:				Surface Casing Install Method: <u>NA</u>	
Borehole Depth (feet): <u>35</u>	Well Depth (feet): <u>35</u>	Borehole Diameter (inches): <u>8</u>	Manhole Diameter (inches): <u>8</u>	Well Pad Size: ___ feet by ___ feet	
Riser Diameter and Material: <u>4" / PVC + S.S.</u>	Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)			Riser Length: ___ feet from ___ feet to ___ feet	
Screen Diameter and Material: <u>4" / S.S.</u>	Screen Slot Size: <u>0.010</u>			Screen Length: <u>3</u> feet from ___ feet to ___ feet	
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
Filter Pack Material and Size: <u>20/30 Sand</u>	Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			Filter Pack Length: <u>4.5</u> feet from ___ feet to ___ feet	
Filter Pack Seal Material and Size: <u>Fine Sand + Bentonite</u>			Filter Pack Seal Length: <u>2</u> feet from ___ feet to ___ feet		
Surface Seal Material: <u>Cement Grout</u>			Surface Seal Length: ___ feet from ___ feet to ___ feet		

WELL DEVELOPMENT DATA			
Well Development Date:	Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)		
Development Pump Type (check): <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)	<input type="checkbox"/> Centrifugal <input type="checkbox"/> Peristaltic	Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):	Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No	
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development:		Water Appearance (color and odor) At End of Development:	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: SVE-219-101		Site Name: Lafarge Road Marking		Well Install Date(s): 5/13/13 SVE 4/20/13	
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: Hollow Stem Auger	
If AG, list feet of riser above land surface:				Surface Casing Install Method: NA	
Borehole Depth (feet): 20	Well Depth (feet): 20	Borehole Diameter (inches): 10	Manhole Diameter (inches): 10	Well Pad Size: _____ feet by _____ feet	
Riser Diameter and Material: 4" / PVC		Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)		Riser Length: 5 feet from 6 feet to 0 feet	
Screen Diameter and Material: 4" / S.S		Screen Slot Size: 0.010		Screen Length: 15 feet from 20 feet to 5 feet	
1 st Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		1 st Surface Casing I.D. (inches):		1 st Surface Casing Length: _____ feet from _____ feet to _____ feet	
2 nd Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		2 nd Surface Casing I.D. (inches):		2 nd Surface Casing Length: _____ feet from _____ feet to _____ feet	
3 rd Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		3 rd Surface Casing I.D. (inches):		3 rd Surface Casing Length: _____ feet from _____ feet to _____ feet	
Filter Pack Material and Size: 20/30 Sand	Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Filter Pack Length: 16 feet from 20 feet to 4 feet		
Filter Pack Seal Material and Size: Fine Sand		Filter Pack Seal Length: 0.5 feet from 4 feet to 3.5 feet			
Surface Seal Material: Cement Grout		Surface Seal Length: 1 feet from 3.5 feet to 2.5 feet			

WELL DEVELOPMENT DATA			
Well Development Date:		Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)	
Development Pump Type (check): <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)		Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):		Maximum Drawdown of Groundwater During Development (feet):	
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent		Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No	
Total Development Water Removed (gallons):		Development Duration (minutes):	
Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No			
Water Appearance (color and odor) At Start of Development:		Water Appearance (color and odor) At End of Development:	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: 102 SVE-214	Site Name: Lafarge Road Marking			Well Install Date(s): 5/13/13 SVE 4/20/13	
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: Hollow Stem Auger	
If AG, list feet of riser above land surface:				Surface Casing Install Method: NA	
Borehole Depth (feet): 20	Well Depth (feet): 20	Borehole Diameter (inches): 10	Manhole Diameter (inches): 10	Well Pad Size: ___ feet by ___ feet	
Riser Diameter and Material: 4" / PVC		Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)	Riser Length: 5 feet from 5 feet to 0 feet		
Screen Diameter and Material: 4" / S.S.		Screen Slot Size: 2010	Screen Length: 15 feet from 20 feet to 5 feet		
1 st Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		1 st Surface Casing I.D. (inches):	1 st Surface Casing Length: ___ feet from ___ feet to ___ feet		
2 nd Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		2 nd Surface Casing I.D. (inches):	2 nd Surface Casing Length: ___ feet from ___ feet to ___ feet		
3 rd Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		3 rd Surface Casing I.D. (inches):	3 rd Surface Casing Length: ___ feet from ___ feet to ___ feet		
Filter Pack Material and Size: 20/30 Sand	Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Filter Pack Length: 16 feet from 20 feet to 4 feet		
Filter Pack Seal Material and Size: Fine Sand			Filter Pack Seal Length: 0.5 feet from 4 feet to 3.5 feet		
Surface Seal Material: Cement Grout			Surface Seal Length: 1 feet from 3.5 feet to 2.5 feet		

WELL DEVELOPMENT DATA			
Well Development Date:		Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)	
Development Pump Type (check): <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)		Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):		Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development:		Water Appearance (color and odor) At End of Development:	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: <u>103</u> <u>SVE-219</u>	Site Name: <u>Lafarge Road Marking</u>			Well Install Date(s): <u>5/13/13</u> <u>SVE-4/20/13</u>	
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: <u>Hollow Stem Auger</u>	
If AG, list feet of riser above land surface:				Surface Casing Install Method: <u>NA</u>	
Borehole Depth (feet): <u>20</u>	Well Depth (feet): <u>20</u>	Borehole Diameter (inches): <u>10</u>	Manhole Diameter (inches): <u>10</u>	Well Pad Size: _____ feet by _____ feet	
Riser Diameter and Material: <u>4" PVC</u>	Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-T Threaded <input type="checkbox"/> Other (describe)			Riser Length: <u>5</u> feet from <u>5</u> feet to <u>0</u> feet	
Screen Diameter and Material: <u>4" S.S.</u>	Screen Slot Size: <u>0.010</u>			Screen Length: <u>15</u> feet from <u>20</u> feet to <u>5</u> feet	
1 st Surface Casing Material: also check <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		1 st Surface Casing I.D. (inches):		1 st Surface Casing Length: _____ feet from _____ feet to _____ feet	
2 nd Surface Casing Material: also check <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		2 nd Surface Casing I.D. (inches):		2 nd Surface Casing Length: _____ feet from _____ feet to _____ feet	
3 rd Surface Casing Material: also check <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		3 rd Surface Casing I.D. (inches):		3 rd Surface Casing Length: _____ feet from _____ feet to _____ feet	
Filter Pack Material and Size: <u>20/30 Sand</u>	Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Filter Pack Length: <u>16</u> feet from <u>20</u> feet to <u>4</u> feet		
Filter Pack Seal Material and Size: <u>Fine Sand</u>				Filter Pack Seal Length: <u>0.5</u> feet from <u>4</u> feet to <u>3.5</u> feet	
Surface Seal Material: <u>Cement Grout</u>				Surface Seal Length: <u>1</u> feet from <u>3.5</u> feet to <u>2.5</u> feet	

WELL DEVELOPMENT DATA			
Well Development Date:	Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)		
Development Pump Type (check): <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)	<input type="checkbox"/> Centrifugal <input type="checkbox"/> Peristaltic	Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):	Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No	
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development:		Water Appearance (color and odor) At End of Development:	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: <i>SVE-219 104</i>	Site Name: Lafarge Road Marking			Well Install Date(s): <i>5/13/13</i> <i>SVE 4/20/13</i>	
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: Hollow Stem Auger	
If AG, list feet of riser above land surface:				Surface Casing Install Method: NA	
Borehole Depth (feet): <i>20</i>	Well Depth (feet): <i>20</i>	Borehole Diameter (inches): <i>10</i>	Manhole Diameter (inches): <i>10</i>	Well Pad Size: ___ feet by ___ feet	
Riser Diameter and Material: <i>4" / PVC</i>	Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)			Riser Length: <i>5</i> feet from <i>5</i> feet to <i>10</i> feet	
Screen Diameter and Material: <i>4" / S.S.</i>		Screen Slot Size: <i>0.010</i>		Screen Length: <i>15</i> feet from <i>20</i> feet to <i>5</i> feet	
1 st Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		1 st Surface Casing I.D. (inches):		1 st Surface Casing Length: ___ feet from ___ feet to ___ feet	
2 nd Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		2 nd Surface Casing I.D. (inches):		2 nd Surface Casing Length: ___ feet from ___ feet to ___ feet	
3 rd Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		3 rd Surface Casing I.D. (inches):		3 rd Surface Casing Length: ___ feet from ___ feet to ___ feet	
Filter Pack Material and Size: <i>20/30 Sand</i>	Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Filter Pack Length: <i>16</i> feet from <i>20</i> feet to <i>48</i> feet		
Filter Pack Seal Material and Size: <i>Fine Sand</i>		Filter Pack Seal Length: <i>25</i> feet from <i>4</i> feet to <i>35</i> feet			
Surface Seal Material: Cement Grout		Surface Seal Length: <i>1</i> feet from <i>35</i> feet to <i>25</i> feet			

WELL DEVELOPMENT DATA			
Well Development Date:	Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)		
Development Pump Type (check): <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)	<input type="checkbox"/> Centrifugal <input type="checkbox"/> Peristaltic	Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):	Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No	
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development:		Water Appearance (color and odor) At End of Development:	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: <i>SVE-214 105</i>		Site Name: Lafarge Road Marking		Well Install Date(s): <i>9/10/17</i> <i>SVE-4/20/13</i>	
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: Hollow Stem Auger	
If AG, list feet of riser above land surface:				Surface Casing Install Method: NA	
Borehole Depth (feet): <i>20</i>	Well Depth (feet): <i>20</i>	Borehole Diameter (inches): <i>10</i>	Manhole Diameter (inches): <i>10</i>	Well Pad Size: ___ feet by ___ feet	
Riser Diameter and Material: <i>4" PVC</i>		Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)	Riser Length: <i>5</i> feet from <i>5</i> feet to <i>0</i> feet		
Screen Diameter and Material: <i>4" S.S.</i>		Screen Slot Size: <i>0.010</i>	Screen Length: <i>15</i> feet from <i>20</i> feet to <i>5</i> feet		
1 st Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		1 st Surface Casing I.D. (inches):	1 st Surface Casing Length: ___ feet from ___ feet to ___ feet		
2 nd Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		2 nd Surface Casing I.D. (inches):	2 nd Surface Casing Length: ___ feet from ___ feet to ___ feet		
3 rd Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		3 rd Surface Casing I.D. (inches):	3 rd Surface Casing Length: ___ feet from ___ feet to ___ feet		
Filter Pack Material and Size: <i>20/30 Sand</i>	Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Filter Pack Length: <i>16</i> feet from <i>20</i> feet to <i>4</i> feet		
Filter Pack Seal Material and Size: <i>Fine Sand</i>			Filter Pack Seal Length: <i>0.5</i> feet from <i>4</i> feet to <i>3.5</i> feet		
Surface Seal Material: Cement Grout			Surface Seal Length: <i>1</i> feet from <i>3.5</i> feet to <i>2.5</i> feet		

WELL DEVELOPMENT DATA			
Well Development Date:		Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)	
Development Pump Type (check): <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)		Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):		Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development:		Water Appearance (color and odor) At End of Development:	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: SVE-214 104	Site Name: Lafarge Road Marking		Well Install Date(s): SVE 4/20/13		
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: Hollow Stem Auger	
If AG, list feet of riser above land surface:				Surface Casing Install Method: NA	
Borehole Depth (feet): 20	Well Depth (feet): 20	Borehole Diameter (inches): 10	Manhole Diameter (inches): 10	Well Pad Size: ___ feet by ___ feet	
Riser Diameter and Material: 4" / PVC	Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)	Riser Length: 5 feet from 5 feet to 0 feet			
Screen Diameter and Material: 4" / S.S.		Screen Slot Size: 0.010	Screen Length: 15 feet from 20 feet to 5 feet		
1 st Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		1 st Surface Casing I.D. (inches):	1 st Surface Casing Length: ___ feet from ___ feet to ___ feet		
2 nd Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		2 nd Surface Casing I.D. (inches):	2 nd Surface Casing Length: ___ feet from ___ feet to ___ feet		
3 rd Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		3 rd Surface Casing I.D. (inches):	3 rd Surface Casing Length: ___ feet from ___ feet to ___ feet		
Filter Pack Material and Size: 20/30 Sand	Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Filter Pack Length: 16 feet from 20 feet to 4 feet			
Filter Pack Seal Material and Size: Fine Sand		Filter Pack Seal Length: 0.5 feet from 4 feet to 3.5 feet			
Surface Seal Material: Cement Grout		Surface Seal Length: 1 feet from 3.5 feet to 2.5 feet			

WELL DEVELOPMENT DATA			
Well Development Date:	Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)		
Development Pump Type (check): <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe) <input type="checkbox"/> Centrifugal <input type="checkbox"/> Peristaltic		Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):	Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No	
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development:		Water Appearance (color and odor) At End of Development:	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: <u>SVE 107</u> SVE 219	Site Name: Lafarge Road Marking			Well Install Date(s): <u>5/10/13</u> SVE 4/20/13	
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: Hollow Stem Auger	
If AG, list feet of riser above land surface:				Surface Casing Install Method: NA	
Borehole Depth (feet): <u>20</u>	Well Depth (feet): <u>20</u>	Borehole Diameter (inches): <u>10</u>	Manhole Diameter (inches): <u>10</u>	Well Pad Size: ___ feet by ___ feet	
Riser Diameter and Material: <u>4" PVC</u>	Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)			Riser Length: <u>5</u> feet from <u>5</u> feet to <u>0</u> feet	
Screen Diameter and Material: <u>4" S.S.</u>		Screen Slot Size: <u>0.010</u>		Screen Length: <u>15</u> feet from <u>20</u> feet to <u>5</u> feet	
1 st Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		1 st Surface Casing I.D. (inches):		1 st Surface Casing Length: ___ feet from ___ feet to ___ feet	
2 nd Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		2 nd Surface Casing I.D. (inches):		2 nd Surface Casing Length: ___ feet from ___ feet to ___ feet	
3 rd Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		3 rd Surface Casing I.D. (inches):		3 rd Surface Casing Length: ___ feet from ___ feet to ___ feet	
Filter Pack Material and Size: <u>20/30 Sand</u>	Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Filter Pack Length: <u>16</u> feet from <u>20</u> feet to <u>4</u> feet		
Filter Pack Seal Material and Size: <u>Fine Sand</u>				Filter Pack Seal Length: <u>0.5</u> feet from <u>4</u> feet to <u>3.5</u> feet	
Surface Seal Material: Cement Grout			Surface Seal Length: <u>1</u> feet from <u>35</u> feet to <u>35</u> feet		

WELL DEVELOPMENT DATA			
Well Development Date:		Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)	
Development Pump Type (check): <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)		Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):		Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development:		Water Appearance (color and odor) At End of Development:	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: SVE-214-108		Site Name: Lafarge Road Marking		Well Install Date(s): 5/13/12 SVE 4/20/13	
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: Hollow Stem Auger	
If AG, list feet of riser above land surface:				Surface Casing Install Method: NA	
Borehole Depth (feet): 20	Well Depth (feet): 20	Borehole Diameter (inches): 10	Manhole Diameter (inches): 10	Well Pad Size: _____ feet by _____ feet	
Riser Diameter and Material: 4" PVC		Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)	Riser Length: 5 feet from 5 feet to 0 feet		
Screen Diameter and Material: 4" / S.S.		Screen Slot Size: 0.010	Screen Length: 15 feet from 20 feet to 5 feet		
1 st Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		1 st Surface Casing I.D. (inches):	1 st Surface Casing Length: _____ feet from _____ feet to _____ feet		
2 nd Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		2 nd Surface Casing I.D. (inches):	2 nd Surface Casing Length: _____ feet from _____ feet to _____ feet		
3 rd Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		3 rd Surface Casing I.D. (inches):	3 rd Surface Casing Length: _____ feet from _____ feet to _____ feet		
Filter Pack Material and Size: 20/30 Sand	Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Filter Pack Length: 16 feet from 20 feet to 4 feet		
Filter Pack Seal Material and Size: Fine Sand		Filter Pack Seal Length: 0.5 feet from 4 feet to 3.5 feet			
Surface Seal Material: Cement Grout		Surface Seal Length: 1 feet from 3.5 feet to 2.5 feet			

WELL DEVELOPMENT DATA			
Well Development Date:		Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)	
Development Pump Type (check): <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)		Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):		Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development:		Water Appearance (color and odor) At End of Development:	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: <u>SVE-219</u> ¹¹⁰	Site Name: <u>Lafarge Road Marking</u>			Well Install Date(s): <u>SVE 4/20/13</u>	
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: <u>Hollow Stem Auger</u>	
If AG, list feet of riser above land surface:				Surface Casing Install Method: <u>NA</u>	
Borehole Depth (feet): <u>20</u>	Well Depth (feet): <u>20</u>	Borehole Diameter (inches): <u>10</u>	Manhole Diameter (inches): <u>10</u>	Well Pad Size: _____ feet by _____ feet	
Riser Diameter and Material: <u>4" / PVC</u>		Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)	Riser Length: <u>5</u> feet from <u>5</u> feet to <u>0</u> feet		
Screen Diameter and Material: <u>4" / S.S.</u>		Screen Slot Size: <u>0.010</u>	Screen Length: <u>65</u> feet from <u>20</u> feet to <u>5</u> feet		
1 st Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		1 st Surface Casing I.D. (inches):	1 st Surface Casing Length: _____ feet from _____ feet to _____ feet		
2 nd Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		2 nd Surface Casing I.D. (inches):	2 nd Surface Casing Length: _____ feet from _____ feet to _____ feet		
3 rd Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		3 rd Surface Casing I.D. (inches):	3 rd Surface Casing Length: _____ feet from _____ feet to _____ feet		
Filter Pack Material and Size: <u>20/30 Sand</u>	Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Filter Pack Length: <u>10</u> feet from <u>20</u> feet to <u>4</u> feet		
Filter Pack Seal Material and Size: <u>Fine Sand</u>			Filter Pack Seal Length: <u>0.5</u> feet from <u>4.0</u> feet to <u>3.5</u> feet		
Surface Seal Material: <u>Cement Grout</u>			Surface Seal Length: <u>1</u> feet from <u>3.5</u> feet to <u>2.5</u> feet		

WELL DEVELOPMENT DATA			
Well Development Date:	Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)		
Development Pump Type (check): <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)	<input type="checkbox"/> Centrifugal <input type="checkbox"/> Peristaltic	Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):	Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No	
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development:		Water Appearance (color and odor) At End of Development:	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: <u>SW-111</u> <u>SW-219</u>		Site Name: Lafarge Road Marking		Well Install Date(s): <u>5/10</u> <u>5/20/13</u>	
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: Hollow Stem Auger	
If AG, list feet of riser above land surface:				Surface Casing Install Method: NA	
Borehole Depth (feet): <u>20</u>	Well Depth (feet): <u>20</u>	Borehole Diameter (inches): <u>10</u>	Manhole Diameter (inches): <u>10</u>	Well Pad Size: ___ feet by ___ feet	
Riser Diameter and Material: <u>2" x 4" PVC</u>	Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)			Riser Length: <u>5</u> feet from <u>15</u> feet to <u>0</u> feet	
Screen Diameter and Material: <u>4" S.S.</u>		Screen Slot Size: <u>0.010</u>		Screen Length: <u>15</u> feet from <u>20</u> feet to <u>5</u> feet	
1 st Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		1 st Surface Casing I.D. (inches):		1 st Surface Casing Length: ___ feet from ___ feet to ___ feet	
2 nd Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		2 nd Surface Casing I.D. (inches):		2 nd Surface Casing Length: ___ feet from ___ feet to ___ feet	
3 rd Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		3 rd Surface Casing I.D. (inches):		3 rd Surface Casing Length: ___ feet from ___ feet to ___ feet	
Filter Pack Material and Size: <u>20/30 Sand</u>	Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Filter Pack Length: <u>16</u> feet from <u>20</u> feet to <u>4</u> feet		
Filter Pack Seal Material and Size: <u>Fine Sand</u>		Filter Pack Seal Length: <u>0.5</u> feet from <u>4</u> feet to <u>3.5</u> feet			
Surface Seal Material: Cement Grout		Surface Seal Length: <u>1</u> feet from <u>35</u> feet to <u>25</u> feet			

WELL DEVELOPMENT DATA					
Well Development Date:		Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)			
Development Pump Type (check): <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)		<input type="checkbox"/> Centrifugal <input type="checkbox"/> Peristaltic		Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):		Maximum Drawdown of Groundwater During Development (feet):		Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No	
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent		Total Development Water Removed (gallons):		Development Duration (minutes):	
Water Appearance (color and odor) At Start of Development:		Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No			
Water Appearance (color and odor) At Start of Development:		Water Appearance (color and odor) At End of Development:			

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: <u>SUE-112</u>	Site Name: <u>Lafarge Road Marking</u>			Well Install Date(s): <u>6/24/03</u>	
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: <u>Hollow Stem Auger</u>	
If AG, list feet of riser above land surface:				Surface Casing Install Method: <u>NA</u>	
Borehole Depth (feet): <u>20</u>	Well Depth (feet): <u>20</u>	Borehole Diameter (inches): <u>10</u>	Manhole Diameter (inches): <u>10</u>	Well Pad Size: <u> </u> feet by <u> </u> feet	
Riser Diameter and Material: <u>4" PVC</u>	Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)			Riser Length: <u>5</u> feet from <u>5</u> feet to <u>0</u> feet	
Screen Diameter and Material: <u>4" S.S.</u>		Screen Slot Size: <u>0.010</u>		Screen Length: <u>15</u> feet from <u>20</u> feet to <u>5</u> feet	
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
Filter Pack Material and Size: <u>20/30 Sand</u>	Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Filter Pack Length: <u>16</u> feet from <u>20</u> feet to <u>4</u> feet		
Filter Pack Seal Material and Size: <u>Fine Sand</u>			Filter Pack Seal Length: <u>0.5</u> feet from <u>4</u> feet to <u>3.5</u> feet		
Surface Seal Material: <u>Cement Grout</u>		Surface Seal Length: <u>1</u> feet from <u>3.5</u> feet to <u>2.5</u> feet			

WELL DEVELOPMENT DATA			
Well Development Date:	Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)		
Development Pump Type (check): <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)	<input type="checkbox"/> Centrifugal <input type="checkbox"/> Peristaltic	Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):	Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No	
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development:		Water Appearance (color and odor) At End of Development:	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: <u>113</u> <u>SVE-219</u>	Site Name: Lafarge Road Marking			Well Install Date(s): <u>5/11/13</u> SVE 4/20/13	
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: Hollow Stem Auger	
If AG, list feet of riser above land surface:				Surface Casing Install Method: NA	
Borehole Depth (feet): <u>20</u>	Well Depth (feet): <u>20</u>	Borehole Diameter (inches): <u>10</u>	Manhole Diameter (inches): <u>10</u>	Well Pad Size: ___ feet by ___ feet	
Riser Diameter and Material: <u>4" PVC</u>	Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)			Riser Length: <u>5</u> feet from <u>5</u> feet to <u>0</u> feet	
Screen Diameter and Material: <u>4" S.S.</u>		Screen Slot Size: <u>0.010</u>		Screen Length: <u>15</u> feet from <u>20</u> feet to <u>5</u> feet	
1 st Surface Casing Material: also check <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		1 st Surface Casing I.D. (inches):		1 st Surface Casing Length: ___ feet from ___ feet to ___ feet	
2 nd Surface Casing Material: also check <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		2 nd Surface Casing I.D. (inches):		2 nd Surface Casing Length: ___ feet from ___ feet to ___ feet	
3 rd Surface Casing Material: also check <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		3 rd Surface Casing I.D. (inches):		3 rd Surface Casing Length: ___ feet from ___ feet to ___ feet	
Filter Pack Material and Size: <u>20/30 Sand</u>	Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Filter Pack Length: <u>16</u> feet from <u>20</u> feet to <u>4</u> feet		
Filter Pack Seal Material and Size: <u>Fine Sand</u>			Filter Pack Seal Length: <u>0.5</u> feet from <u>4.0</u> feet to <u>2.5</u> feet		
Surface Seal Material: Cement Grout			Surface Seal Length: <u>1</u> feet from <u>3.5</u> feet to <u>2.5</u> feet		

WELL DEVELOPMENT DATA			
Well Development Date:		Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)	
Development Pump Type (check): <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)		Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):		Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development:		Water Appearance (color and odor) At End of Development:	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: <u>SVE-114</u> <u>SVE-214</u>		Site Name: Lafarge Road Marking		Well Install Date(s): <u>5/11/13</u> SVE 4/20/13	
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: Hollow Stem Auger	
If AG, list feet of riser above land surface:				Surface Casing Install Method: NA	
Borehole Depth (feet): <u>20</u>	Well Depth (feet): <u>20</u>	Borehole Diameter (inches): <u>10</u>	Manhole Diameter (inches): <u>10</u>	Well Pad Size: ___ feet by ___ feet	
Riser Diameter and Material: <u>4" PVC</u>		Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)		Riser Length: <u>5</u> feet from <u>5</u> feet to <u>0</u> feet	
Screen Diameter and Material: <u>4" S.S.</u>		Screen Slot Size: <u>0.010</u>		Screen Length: <u>15</u> feet from <u>20</u> feet to <u>5</u> feet	
1 st Surface Casing Material: also check <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		1 st Surface Casing I.D. (inches):		1 st Surface Casing Length: ___ feet from ___ feet to ___ feet	
2 nd Surface Casing Material: also check <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		2 nd Surface Casing I.D. (inches):		2 nd Surface Casing Length: ___ feet from ___ feet to ___ feet	
3 rd Surface Casing Material: also check <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		3 rd Surface Casing I.D. (inches):		3 rd Surface Casing Length: ___ feet from ___ feet to ___ feet	
Filter Pack Material and Size: <u>20/30 Sand</u>	Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Filter Pack Length: <u>16</u> feet from <u>20</u> feet to <u>4</u> feet		
Filter Pack Seal Material and Size: <u>Fine Sand</u>			Filter Pack Seal Length: <u>0.5</u> feet from <u>4</u> feet to <u>3.5</u> feet		
Surface Seal Material: <u>Cement Grout</u>			Surface Seal Length: <u>1</u> feet from <u>3.5</u> feet to <u>2.5</u> feet		

WELL DEVELOPMENT DATA			
Well Development Date:		Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)	
Development Pump Type (check): <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)		Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):		Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development:		Water Appearance (color and odor) At End of Development:	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: <u>115</u> <u>SVE-219</u>	Site Name: <u>Lafarge Road Marking</u>			Well Install Date(s): <u>5/11/13</u> <u>SVE 4/20/13</u>	
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: <u>Hollow Stem Auger</u>	
If AG, list feet of riser above land surface:				Surface Casing Install Method: <u>NA</u>	
Borehole Depth (feet): <u>20</u>	Well Depth (feet): <u>20</u>	Borehole Diameter (inches): <u>10</u>	Manhole Diameter (inches): <u>10</u>	Well Pad Size: <u> </u> feet by <u> </u> feet	
Riser Diameter and Material: <u>4" PVC</u>		Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)	Riser Length: <u>5</u> feet from <u>15</u> feet to <u>0</u> feet		
Screen Diameter and Material: <u>4" S.S</u>		Screen Slot Size: <u>0-010</u>	Screen Length: <u>15</u> feet from <u>20</u> feet to <u>5</u> feet		
1 st Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		1 st Surface Casing I.D. (inches):	1 st Surface Casing Length: <u> </u> feet from <u> </u> feet to <u> </u> feet		
2 nd Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		2 nd Surface Casing I.D. (inches):	2 nd Surface Casing Length: <u> </u> feet from <u> </u> feet to <u> </u> feet		
3 rd Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		3 rd Surface Casing I.D. (inches):	3 rd Surface Casing Length: <u> </u> feet from <u> </u> feet to <u> </u> feet		
Filter Pack Material and Size: <u>20/30 Sand</u>	Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Filter Pack Length: <u>16</u> feet from <u>20</u> feet to <u>4</u> feet		
Filter Pack Seal Material and Size: <u>Fine Sand</u>		Filter Pack Seal Length: <u>0.5</u> feet from <u>4</u> feet to <u>3.5</u> feet			
Surface Seal Material: <u>Cement Grout</u>		Surface Seal Length: <u>1</u> feet from <u>3.5</u> feet to <u>2.5</u> feet			

WELL DEVELOPMENT DATA			
Well Development Date:		Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)	
Development Pump Type (check): <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)		Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):		Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development:		Water Appearance (color and odor) At End of Development:	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: SVE-219 616	Site Name: Lafarge Road Marking			Well Install Date(s): 2/16/13 SVE 4/20/13	
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: Hollow Stem Auger	
If AG, list feet of riser above land surface:				Surface Casing Install Method: NA	
Borehole Depth (feet):	Well Depth (feet):	Borehole Diameter (inches): 10	Manhole Diameter (inches): 10	Well Pad Size: ___ feet by ___ feet	
Riser Diameter and Material: 4", PVC	Riser/Screen Connections:	<input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)		Riser Length: 5 feet from ___ feet to ___ feet	
Screen Diameter and Material: 4" S.S.		Screen Slot Size: 0.010		Screen Length: 15 feet from 2 feet to ___ feet	
1 st Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		1 st Surface Casing I.D. (inches):		1 st Surface Casing Length: ___ feet from ___ feet to ___ feet	
2 nd Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		2 nd Surface Casing I.D. (inches):		2 nd Surface Casing Length: ___ feet from ___ feet to ___ feet	
3 rd Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		3 rd Surface Casing I.D. (inches):		3 rd Surface Casing Length: ___ feet from ___ feet to ___ feet	
Filter Pack Material and Size: 20/30 Sand	Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Filter Pack Length: 16 feet from 20 feet to 4 feet		
Filter Pack Seal Material and Size: Fine Sand			Filter Pack Seal Length: 25 feet from 4 feet to 35 feet		
Surface Seal Material:	Cement Grout		Surface Seal Length: 1 feet from 3.5 feet to 2.5 feet		

WELL DEVELOPMENT DATA			
Well Development Date:	Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)		
Development Pump Type (check): <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)	<input type="checkbox"/> Centrifugal <input type="checkbox"/> Peristaltic	Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):	Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No	
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development:		Water Appearance (color and odor) At End of Development:	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: <u>117</u> <u>SVE-219</u>		Site Name: <u>Lafarge Road Marking</u>		Well Install Date(s): <u>6/14/13</u> <u>SVE 4/20/13</u>	
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: <u>Hollow Stem Auger</u>	
If AG, list feet of riser above land surface:				Surface Casing Install Method: <u>NA</u>	
Borehole Depth (feet): <u>20</u>	Well Depth (feet): <u>20</u>	Borehole Diameter (inches): <u>10</u>	Manhole Diameter (inches): <u>10</u>	Well Pad Size: <u> </u> feet by <u> </u> feet	
Riser Diameter and Material: <u>4" PVC</u>		Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)	Riser Length: <u>5</u> feet from <u>5</u> feet to <u>0</u> feet		
Screen Diameter and Material: <u>4" S.S.</u>		Screen Slot Size: <u>0.010</u>	Screen Length: <u>15</u> feet from <u>20</u> feet to <u>5</u> feet		
1 st Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		1 st Surface Casing I.D. (inches):	1 st Surface Casing Length: <u> </u> feet from <u> </u> feet to <u> </u> feet		
2 nd Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		2 nd Surface Casing I.D. (inches):	2 nd Surface Casing Length: <u> </u> feet from <u> </u> feet to <u> </u> feet		
3 rd Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		3 rd Surface Casing I.D. (inches):	3 rd Surface Casing Length: <u> </u> feet from <u> </u> feet to <u> </u> feet		
Filter Pack Material and Size: <u>20/30 Sand</u>	Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Filter Pack Length: <u>16</u> feet from <u>20</u> feet to <u>4</u> feet		
Filter Pack Seal Material and Size: <u>Fine Sand</u>		Filter Pack Seal Length: <u>0.5</u> feet from <u>4.0</u> feet to <u>3.5</u> feet			
Surface Seal Material: <u>Cement Grout</u>		Surface Seal Length: <u>1</u> feet from <u>3.5</u> feet to <u>2.5</u> feet			

WELL DEVELOPMENT DATA			
Well Development Date:		Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)	
Development Pump Type (check): <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)		Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):		Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development:		Water Appearance (color and odor) At End of Development:	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: <u>SVE-219-119</u>	Site Name: Lafarge Road Marking			Well Install Date(s): <u>5/12/13</u> SVE 4/20/13	
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: Hollow Stem Auger	
If AG, list feet of riser above land surface:				Surface Casing Install Method: NA	
Borehole Depth (feet): <u>20</u>	Well Depth (feet): <u>20</u>	Borehole Diameter (inches): <u>10</u>	Manhole Diameter (inches): <u>10</u>	Well Pad Size: ___ feet by ___ feet	
Riser Diameter and Material: <u>4" PVC</u>	Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)			Riser Length: <u>45</u> feet from <u>5</u> feet to <u>0</u> feet	
Screen Diameter and Material: <u>4" / S.S.</u>		Screen Slot Size: <u>0.010</u>		Screen Length: <u>15</u> feet from <u>20</u> feet to <u>5</u> feet	
1 st Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		1 st Surface Casing I.D. (inches):		1 st Surface Casing Length: ___ feet from ___ feet to ___ feet	
2 nd Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		2 nd Surface Casing I.D. (inches):		2 nd Surface Casing Length: ___ feet from ___ feet to ___ feet	
3 rd Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		3 rd Surface Casing I.D. (inches):		3 rd Surface Casing Length: ___ feet from ___ feet to ___ feet	
Filter Pack Material and Size: <u>20/30 Sand</u>	Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Filter Pack Length: <u>16</u> feet from <u>20</u> feet to <u>4</u> feet		
Filter Pack Seal Material and Size: <u>Fine Sand</u>	Filter Pack Seal Length: <u>0.5</u> feet from <u>4</u> feet to <u>3.5</u> feet				
Surface Seal Material: <u>Cement Grout</u>	Surface Seal Length: <u>1</u> feet from <u>2.5</u> feet to <u>2.5</u> feet				

WELL DEVELOPMENT DATA			
Well Development Date:	Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)		
Development Pump Type (check): <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)	<input type="checkbox"/> Centrifugal <input type="checkbox"/> Peristaltic	Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):	Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No	
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development:		Water Appearance (color and odor) At End of Development:	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: SVE-201		Site Name: Lafarge Road Marking		Well Install Date(s): 4/23/13	
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: Hollow Stem Auger	
If AG, list feet of riser above land surface:				Surface Casing Install Method: NA	
Borehole Depth (feet): 20	Well Depth (feet): 20	Borehole Diameter (inches): 1.0	Manhole Diameter (inches): 10	Well Pad Size: 2 feet by 2 feet	
Riser Diameter and Material: 4" PVC		Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)		Riser Length: 25 feet from 5 feet to 0 feet	
Screen Diameter and Material: 4" S.S.		Screen Slot Size: 0-010		Screen Length: 15 feet from 20 feet to 5 feet	
1" Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		1" Surface Casing I.D. (inches):		1" Surface Casing Length: _____ feet from _____ feet to _____ feet	
2" Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		2" Surface Casing I.D. (inches):		2" Surface Casing Length: _____ feet from _____ feet to _____ feet	
3" Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		3" Surface Casing I.D. (inches):		3" Surface Casing Length: _____ feet from _____ feet to _____ feet	
Filter Pack Material and Size: 20/30 Sand		Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Filter Pack Length: 16 feet from 20 feet to 4 feet	
Filter Pack Seal Material and Size: Fine Sand				Filter Pack Seal Length: 0.5 feet from 4.0 feet to 3.5 feet	
Surface Seal Material: Cement Grout				Surface Seal Length: 1 feet from 3.5 feet to 2.5 feet	

WELL DEVELOPMENT DATA			
Well Development Date:		Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)	
Development Pump Type (check): <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)		Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):		Maximum Drawdown of Groundwater During Development (feet):	
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent		Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No	
Total Development Water Removed (gallons):		Development Duration (minutes):	
Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No			
Water Appearance (color and odor) At Start of Development:		Water Appearance (color and odor) At End of Development:	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: <u>SVE- 202</u>	Site Name: <u>Lafarge Road Marking</u>		Well Install Date(s): <u>4/23/13</u>		
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: <u>Hollow Stem Auger</u>	
If AG, list feet of riser above land surface:		Surface Casing Install Method: <u>NA</u>			
Borehole Depth (feet): <u>20</u>	Well Depth (feet): <u>20</u>	Borehole Diameter (inches): <u>10</u>	Manhole Diameter (inches): <u>10</u>	Well Pad Size: <u>—</u> feet by <u>—</u> feet	
Riser Diameter and Material: <u>4" PVC</u>	Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)	Riser Length: <u>9</u> feet from <u>9</u> feet to <u>0</u> feet			
Screen Diameter and Material: <u>4" S.S.</u>		Screen Slot Size: <u>0.010</u>	Screen Length: <u>15</u> feet from <u>20</u> feet to <u>5</u> feet		
1 st Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		1 st Surface Casing I.D. (inches):	1 st Surface Casing Length: _____ feet from _____ feet to _____ feet		
2 nd Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		2 nd Surface Casing I.D. (inches):	2 nd Surface Casing Length: _____ feet from _____ feet to _____ feet		
3 rd Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		3 rd Surface Casing I.D. (inches):	3 rd Surface Casing Length: _____ feet from _____ feet to _____ feet		
Filter Pack Material and Size: <u>20/30 Sand</u>	Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Filter Pack Length: <u>16</u> feet from <u>20</u> feet to <u>4</u> feet		
Filter Pack Seal Material and Size: <u>Five Sand</u>			Filter Pack Seal Length: <u>0.5</u> feet from <u>4.0</u> feet to <u>3.5</u> feet		
Surface Seal Material: <u>Cement Grout</u>			Surface Seal Length: <u>1</u> feet from <u>3.5</u> feet to <u>2.5</u> feet		

WELL DEVELOPMENT DATA			
Well Development Date:	Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)		
Development Pump Type (check): <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)		Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):	Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No	
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development:		Water Appearance (color and odor) At End of Development:	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: <u>SVE-203</u>		Site Name: <u>Lafarge Road Marking</u>		Well Install Date(s): <u>4/23/13</u>	
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: <u>Hollow Stem Auger</u>	
If AG, list feet of riser above land surface:				Surface Casing Install Method: <u>NA</u>	
Borehole Depth (feet): <u>20</u>	Well Depth (feet): <u>20</u>	Borehole Diameter (inches): <u>10</u>	Manhole Diameter (inches): <u>10</u>	Well Pad Size: <u> </u> feet by <u> </u> feet	
Riser Diameter and Material: <u>8" PVC</u>		Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)	Riser Length: <u>5</u> feet from <u>5</u> feet to <u>0</u> feet		
Screen Diameter and Material: <u>4" S.S.</u>		Screen Slot Size: <u>0.010</u>	Screen Length: <u>15</u> feet from <u>20</u> feet to <u>5</u> feet		
1 st Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		1 st Surface Casing I.D. (inches):	1 st Surface Casing Length: <u> </u> feet from <u> </u> feet to <u> </u> feet		
2 nd Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		2 nd Surface Casing I.D. (inches):	2 nd Surface Casing Length: <u> </u> feet from <u> </u> feet to <u> </u> feet		
3 rd Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		3 rd Surface Casing I.D. (inches):	3 rd Surface Casing Length: <u> </u> feet from <u> </u> feet to <u> </u> feet		
Filter Pack Material and Size: <u>20/30 Sand</u>	Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Filter Pack Length: <u>26</u> feet from <u>20</u> feet to <u>4</u> feet		
Filter Pack Seal Material and Size: <u>Fine Sand</u>			Filter Pack Seal Length: <u>0.5</u> feet from <u>4</u> feet to <u>3.5</u> feet		
Surface Seal Material: <u>Cement Grout</u>			Surface Seal Length: <u>1</u> feet from <u>3.5</u> feet to <u>2.5</u> feet		

WELL DEVELOPMENT DATA			
Well Development Date:		Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)	
Development Pump Type (check): <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)		Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):		Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development:		Water Appearance (color and odor) At End of Development:	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: <u>3VE-204</u> <u>SVE-219</u>		Site Name: <u>Lafarge Road Marking</u>		Well Install Date(s): <u>4/20/13</u> SVE 4/20/13	
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: <u>Hollow Stem Auger</u>	
If AG, list feet of riser above land surface:				Surface Casing Install Method: <u>NA</u>	
Borehole Depth (feet): <u>20</u>	Well Depth (feet): <u>20</u>	Borehole Diameter (inches): <u>10</u>	Manhole Diameter (inches): <u>10</u>	Well Pad Size: _____ feet by _____ feet	
Riser Diameter and Material: <u>4" PVC</u>		Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)	Riser Length: <u>9</u> feet from <u>5</u> feet to <u>0</u> feet		
Screen Diameter and Material: <u>4" S.S.</u>		Screen Slot Size: <u>0.010</u>	Screen Length: <u>15</u> feet from <u>20</u> feet to <u>5</u> feet		
1 st Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		1 st Surface Casing I.D. (inches):	1 st Surface Casing Length: _____ feet from _____ feet to _____ feet		
2 nd Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		2 nd Surface Casing I.D. (inches):	2 nd Surface Casing Length: _____ feet from _____ feet to _____ feet		
3 rd Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		3 rd Surface Casing I.D. (inches):	3 rd Surface Casing Length: _____ feet from _____ feet to _____ feet		
Filter Pack Material and Size: <u>20/30 Sand</u>	Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Filter Pack Length: _____ feet from _____ feet to _____ feet		
Filter Pack Seal Material and Size:		Filter Pack Seal Length: _____ feet from _____ feet to _____ feet			
Surface Seal Material: <u>Cement Grout</u>		Surface Seal Length: _____ feet from _____ feet to _____ feet			

WELL DEVELOPMENT DATA			
Well Development Date:		Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)	
Development Pump Type (check): <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)		Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):		Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development:		Water Appearance (color and odor) At End of Development:	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION DATA

Well Number: <u>SVE 207</u>		Site Name: <u>Lafarge Road Marking</u>		Well Install Date(s): <u>4/29/13</u> SVE 4/20/13	
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Surface (Water Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: <u>Station Auger</u>	
If AG, list feet of riser above land surface:				Surface Casing Install Method: NA	
Borehole Depth (feet): <u>20</u>	Well Depth (feet): <u>20</u>	Borehole Diameter (inches): <u>10</u>	Manhole Diameter (inches): <u>10</u>	Well Pad Size: _____ feet by _____ feet	
Riser Diameter and Material: <u>4" 1/2" PVC</u>	Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)	Riser Length: <u>5</u> feet from <u>5</u> feet to <u>0</u> feet			
Screen Diameter and Material: <u>4" SS</u>		Screen Slot Size: <u>0.010</u>	Screen Length: <u>15</u> feet from <u>20</u> feet to <u>5</u> feet		
1 st Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		1 st Surface Casing I.D. (inches):	1 st Surface Casing Length: _____ feet from _____ feet to _____ feet		
2 nd Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		2 nd Surface Casing I.D. (inches):	2 nd Surface Casing Length: _____ feet from _____ feet to _____ feet		
3 rd Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		3 rd Surface Casing I.D. (inches):	3 rd Surface Casing Length: _____ feet from _____ feet to _____ feet		
Filter Pack Material and Size: <u>20/30 Sand</u>	Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Filter Pack Length: <u>10</u> feet from <u>20</u> feet to <u>4</u> feet		
Filter Pack Seal Material and Size: <u>Fine Sand</u>		Filter Pack Seal Length: <u>0.5</u> feet from <u>4</u> feet to <u>3.5</u> feet			
Surface Seal Material: <u>Cement Grout</u>		Surface Seal Length: <u>1</u> feet from <u>3.5</u> feet to <u>2.5</u> feet			

WELL DEVELOPMENT DATA

Well Development Date:		Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)			
Development Pump Type (check): <input type="checkbox"/> Centrifugal <input type="checkbox"/> Peristaltic <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)		Depth to Groundwater (before developing in feet):			
Pumping Rate (gallons per minute):		Maximum Drawdown of Groundwater During Development (feet):		Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No	
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent		Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No	
Water Appearance (color and odor) At Start of Development:			Water Appearance (color and odor) At End of Development:		

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: SVE- 205	Site Name: Lafarge Road Marking			Well Install Date(s): 4/23/13	
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: Hollow Stem Auger	
If AG, list feet of riser above land surface:				Surface Casing Install Method: NA	
Borehole Depth (feet): 20	Well Depth (feet): 20	Borehole Diameter (inches): 10	Manhole Diameter (inches): 10	Well Pad Size: _____ feet by _____ feet	
Riser Diameter and Material: 4" S.P.V.C.		Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)	Riser Length: 5 feet from 0.5 feet to 0 feet		
Screen Diameter and Material: 4" S.S.		Screen Slot Size: 0.010	Screen Length: 15 feet from 20 feet to 5 feet		
1 st Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		1 st Surface Casing I.D. (inches):	1 st Surface Casing Length: _____ feet from _____ feet to _____ feet		
2 nd Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		2 nd Surface Casing I.D. (inches):	2 nd Surface Casing Length: _____ feet from _____ feet to _____ feet		
3 rd Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		3 rd Surface Casing I.D. (inches):	3 rd Surface Casing Length: _____ feet from _____ feet to _____ feet		
Filter Pack Material and Size: 20/30 Sand	Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Filter Pack Length: 16 feet from 20 feet to 4 feet		
Filter Pack Seal Material and Size: Fine Sand		Filter Pack Seal Length: 0.5 feet from 4 feet to 3.5 feet			
Surface Seal Material: Cement Grout		Surface Seal Length: 1 feet from 3.5 feet to 2.5 feet			

WELL DEVELOPMENT DATA			
Well Development Date:		Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)	
Development Pump Type (check): <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)		Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):	Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No	
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development:		Water Appearance (color and odor) At End of Development:	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: <u>SVE-219-204</u>		Site Name: <u>Lafarge Road Marking</u>		Well Install Date(s): <u>4/25/12</u> SVE 4/20/13	
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: <u>Hollow Stem Auger</u>	
If AG, list feet of riser above land surface:				Surface Casing Install Method: <u>NA</u>	
Borehole Depth (feet): <u>20</u>	Well Depth (feet): <u>20</u>	Borehole Diameter (inches): <u>10</u>	Manhole Diameter (inches): <u>10</u>	Well Pad Size: ____ feet by ____ feet	
Riser Diameter and Material: <u>4" PVC</u>		Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)	Riser Length: <u>5.75</u> feet from <u>5</u> feet to <u>0</u> feet		
Screen Diameter and Material: <u>4" S.S.</u>		Screen Slot Size: <u>0.010</u>	Screen Length: <u>15</u> feet from <u>20</u> feet to <u>5</u> feet		
1 st Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		1 st Surface Casing I.D. (inches):	1 st Surface Casing Length: ____ feet from ____ feet to ____ feet		
2 nd Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		2 nd Surface Casing I.D. (inches):	2 nd Surface Casing Length: ____ feet from ____ feet to ____ feet		
3 rd Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		3 rd Surface Casing I.D. (inches):	3 rd Surface Casing Length: ____ feet from ____ feet to ____ feet		
Filter Pack Material and Size: <u>20/30 Sand</u>	Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Filter Pack Length: <u>16</u> feet from <u>20</u> feet to <u>4</u> feet		
Filter Pack Seal Material and Size: <u>Fine Sand</u>			Filter Pack Seal Length: <u>0.5</u> feet from <u>4</u> feet to <u>3.5</u> feet		
Surface Seal Material: <u>Cement Grout</u>			Surface Seal Length: <u>1</u> feet from <u>3.5</u> feet to <u>2.5</u> feet		

WELL DEVELOPMENT DATA			
Well Development Date:	Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)		
Development Pump Type (check): <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)	<input type="checkbox"/> Centrifugal <input type="checkbox"/> Peristaltic	Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):	Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No	
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development:		Water Appearance (color and odor) At End of Development:	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: SUE-207	Site Name: Lafarge Road Marking			Well Install Date(s): 4/23/13	
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: Hollow Stem Auger	
If AG, list feet of riser above land surface:				Surface Casing Install Method: NA	
Borehole Depth (feet): 20	Well Depth (feet): 20	Borehole Diameter (inches): 10	Manhole Diameter (inches): 10	Well Pad Size: _____ feet by _____ feet	
Riser Diameter and Material: 4" PVC	Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)			Riser Length: 5 feet from 5 feet to 0 feet	
Screen Diameter and Material: 4" S.S.		Screen Slot Size: 0.010		Screen Length: 15 feet from 20 feet to 5 feet	
1" Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		1" Surface Casing I.D. (inches):		1" Surface Casing Length: _____ feet from _____ feet to _____ feet	
2" Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		2" Surface Casing I.D. (inches):		2" Surface Casing Length: _____ feet from _____ feet to _____ feet	
3" Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		3" Surface Casing I.D. (inches):		3" Surface Casing Length: _____ feet from _____ feet to _____ feet	
Filter Pack Material and Size: 20/30 Sand	Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Filter Pack Length: 16 feet from 22 feet to 4 feet		
Filter Pack Seal Material and Size: Fine Sand				Filter Pack Seal Length: 0.5 feet from 4 feet to 3.5 feet	
Surface Seal Material: Cement Grout				Surface Seal Length: 1 feet from 3.5 feet to 2.5 feet	

WELL DEVELOPMENT DATA			
Well Development Date:		Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)	
Development Pump Type (check): <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)		Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):	Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No	
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development:		Water Appearance (color and odor) At End of Development:	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: SVE-208	Site Name: Lafarge Road Marking			Well Install Date(s): 4/23/13	
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: Hollow Stem Auger	
If AG, list feet of riser above land surface:				Surface Casing Install Method: NA	
Borehole Depth (feet): 20	Well Depth (feet): 20	Borehole Diameter (inches): 10	Manhole Diameter (inches): 10	Well Pad Size: _____ feet by _____ feet	
Riser Diameter and Material: 4" S.S. + PVC	Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)			Riser Length: 5 feet from 5 feet to 0 feet	
Screen Diameter and Material: 4" S.S.		Screen Slot Size: 0.010		Screen Length: 15 feet from 20 feet to 5 feet	
1 st Surface Casing Material: also check <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		1 st Surface Casing I.D. (inches):		1 st Surface Casing Length: _____ feet from _____ feet to _____ feet	
2 nd Surface Casing Material: also check <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		2 nd Surface Casing I.D. (inches):		2 nd Surface Casing Length: _____ feet from _____ feet to _____ feet	
3 rd Surface Casing Material: also check <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		3 rd Surface Casing I.D. (inches):		3 rd Surface Casing Length: _____ feet from _____ feet to _____ feet	
Filter Pack Material and Size: 20/30 Sand	Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Filter Pack Length: 16 feet from 20 feet to 4 feet		
Filter Pack Seal Material and Size: Fine Sand			Filter Pack Seal Length: 0.5 feet from 4 feet to 4.5 feet		
Surface Seal Material: Cement Grout			Surface Seal Length: 1 feet from 4.5 feet to 3.5 feet		

WELL DEVELOPMENT DATA			
Well Development Date:		Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)	
Development Pump Type (check): <input type="checkbox"/> Centrifugal <input type="checkbox"/> Peristaltic <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)		Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):	Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No	
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development:		Water Appearance (color and odor) At End of Development:	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION DATA

Well Number: SVE-214 Z10		Site Name: Lafarge Road Marking		Well Install Date(s): 7/24/13 5/10/13	
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade			Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: Hollow Stem Auger
If AG, list feet of riser above land surface:			Surface Casing Install Method: NA		
Borehole Depth (feet): 70	Well Depth (feet): 70	Borehole Diameter (inches): 10	Manhole Diameter (inches): 10	Well Pad Size: _____ feet by _____ feet	
Riser Diameter and Material: 4" PVC	Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)	Riser Length: 5 feet from 5 feet to 0 feet			
Screen Diameter and Material: 4" SS	Screen Slot Size: 0.010	Screen Length: 15 feet from 20 feet to 5 feet			
1 st Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary	1 st Surface Casing I.D. (inches):	1 st Surface Casing Length: _____ feet from _____ feet to _____ feet			
2 nd Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary	2 nd Surface Casing I.D. (inches):	2 nd Surface Casing Length: _____ feet from _____ feet to _____ feet			
3 rd Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary	3 rd Surface Casing I.D. (inches):	3 rd Surface Casing Length: _____ feet from _____ feet to _____ feet			
Filter Pack Material and Size: 20/30 Sand	Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Filter Pack Length: 10 feet from 20 feet to 4 feet			
Filter Pack Seal Material and Size: Fine Sand		Filter Pack Seal Length: 0.5 feet from 4 feet to 3.5 feet			
Surface Seal Material:	Cement Grout	Surface Seal Length: 1 feet from 3.5 feet to 2.5 feet			

WELL DEVELOPMENT DATA

Well Development Date:		Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)			
Development Pump Type (check): <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)		<input type="checkbox"/> Centrifugal <input type="checkbox"/> Peristaltic		Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):		Maximum Drawdown of Groundwater During Development (feet):		Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No	
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent		Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No	
Water Appearance (color and odor) At Start of Development:			Water Appearance (color and odor) At End of Development:		

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION DATA

Well Number: SVE - 219 211		Site Name: Lafarge Road Marking		Well Install Date(s): 7/25/13 4/20/13	
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade			Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: Hollow Stem Auger
If AG, list feet of riser above land surface:			Surface Casing Install Method: NA		
Borehole Depth (feet): 20	Well Depth (feet): 20	Borehole Diameter (inches): 10	Manhole Diameter (inches): 10	Well Pad Size: ___ feet by ___ feet	
Riser Diameter and Material: 4" PVC		Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)	Riser Length: 5 feet from 5 feet to 0 feet		
Screen Diameter and Material: 4" S.S.		Screen Slot Size: 2010	Screen Length: 15 feet from 20 feet to 5 feet		
1 st Surface Casing Material: also check <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		1 st Surface Casing I.D. (inches):	1 st Surface Casing Length: ___ feet from ___ feet to ___ feet		
2 nd Surface Casing Material: also check <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		2 nd Surface Casing I.D. (inches):	2 nd Surface Casing Length: ___ feet from ___ feet to ___ feet		
3 rd Surface Casing Material: also check <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		3 rd Surface Casing I.D. (inches):	3 rd Surface Casing Length: ___ feet from ___ feet to ___ feet		
Filter Pack Material and Size: 20/30 Sand	Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Filter Pack Length: 16 feet from 20 feet to 4 feet		
Filter Pack Seal Material and Size: Fine Sand			Filter Pack Seal Length: 0.5 feet from 4 feet to 3.5 feet		
Surface Seal Material: Cement Grout		Surface Seal Length: 1 feet from 3.5 feet to 2.5 feet			

WELL DEVELOPMENT DATA

Well Development Date:		Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)			
Development Pump Type (check): <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)		<input type="checkbox"/> Centrifugal <input type="checkbox"/> Peristaltic		Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):		Maximum Drawdown of Groundwater During Development (feet):		Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No	
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent		Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No	
Water Appearance (color and odor) At Start of Development:			Water Appearance (color and odor) At End of Development:		

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION DATA

Well Number: <u>212</u> SVE 212-007		Site Name: <u>Lafarge Road Marking</u>		Well Install Date(s): <u>4/24/13</u> Site 4/20/13	
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: <u>Hollow Stem Auger</u>	
If AG, list feet of riser above land surface:				Surface Casing Install Method: <u>NA</u>	
Borehole Depth (feet): <u>20</u>	Well Depth (feet): <u>20</u>	Borehole Diameter (inches): <u>10</u>	Manhole Diameter (inches): <u>10</u>	Well Pad Size: _____ feet by _____ feet	
Riser Diameter and Material: <u>4" PVC</u>		Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)	Riser Length: <u>5</u> feet from <u>5</u> feet to <u>0</u> feet		
Screen Diameter and Material: <u>4" S.S.</u>		Screen Slot Size: <u>0.010</u>	Screen Length: <u>15</u> feet from <u>20</u> feet to <u>5</u> feet		
1 st Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		1 st Surface Casing I.D. (inches):	1 st Surface Casing Length: _____ feet from _____ feet to _____ feet		
2 nd Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		2 nd Surface Casing I.D. (inches):	2 nd Surface Casing Length: _____ feet from _____ feet to _____ feet		
3 rd Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		3 rd Surface Casing I.D. (inches):	3 rd Surface Casing Length: _____ feet from _____ feet to _____ feet		
Filter Pack Material and Size: <u>20/30 Sand</u>	Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Filter Pack Length: <u>16</u> feet from <u>20</u> feet to <u>4</u> feet		
Filter Pack Seal Material and Size: <u>Fine Sand</u>		Filter Pack Seal Length: <u>0.5</u> feet from <u>4</u> feet to <u>3.5</u> feet			
Surface Seal Material: <u>Cement Grout</u>		Surface Seal Length: <u>1</u> feet from <u>3.5</u> feet to <u>2.5</u> feet			

WELL DEVELOPMENT DATA

Well Development Date:		Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)			
Development Pump Type (check): <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)		<input type="checkbox"/> Centrifugal <input type="checkbox"/> Peristaltic		Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):		Maximum Drawdown of Groundwater During Development (feet):		Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No	
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent		Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No	
Water Appearance (color and odor) At Start of Development:			Water Appearance (color and odor) At End of Development:		

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: SVE-219 Z13		Site Name: Lafarge Road Marking		Well Install Date(s): 4/29/13 SVE 4/20/13	
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: Hollow Stem Auger	
If AG, list feet of riser above land surface:				Surface Casing Install Method: NA	
Borehole Depth (feet): 20	Well Depth (feet): 20	Borehole Diameter (inches): 10	Manhole Diameter (inches): 10	Well Pad Size: ___ feet by ___ feet	
Riser Diameter and Material: 4" PVC		Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)	Riser Length: 5 feet from 5 feet to 0 feet		
Screen Diameter and Material: 4" S.S.		Screen Slot Size: 0.010	Screen Length: 15 feet from 20 feet to 5 feet		
1 st Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		1 st Surface Casing I.D. (inches):	1 st Surface Casing Length: ___ feet from ___ feet to ___ feet		
2 nd Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		2 nd Surface Casing I.D. (inches):	2 nd Surface Casing Length: ___ feet from ___ feet to ___ feet		
3 rd Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		3 rd Surface Casing I.D. (inches):	3 rd Surface Casing Length: ___ feet from ___ feet to ___ feet		
Filter Pack Material and Size: 20/30 Sand	Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Filter Pack Length: 16 feet from 20 feet to 4 feet		
Filter Pack Seal Material and Size: Fine Sand			Filter Pack Seal Length: 25 feet from 4 feet to 3.5 feet		
Surface Seal Material:	Cement Grout		Surface Seal Length: 1 feet from 3.5 feet to 2.5 feet		

WELL DEVELOPMENT DATA			
Well Development Date:		Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)	
Development Pump Type (check): <input type="checkbox"/> Centrifugal <input type="checkbox"/> Peristaltic <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)		Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):	Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No	
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development:		Water Appearance (color and odor) At End of Development:	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION DATA

Well Number: SVE-219214		Site Name: Lafarge Road Marking		Well Install Date(s): 4/24/13 SVE 4/20/13	
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade			Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: Hollow Stem Auger
If AG, list feet of riser above land surface:			Surface Casing Install Method: NA		
Borehole Depth (feet): 20	Well Depth (feet): 20	Borehole Diameter (inches): 10	Manhole Diameter (inches): 10	Well Pad Size: ___ feet by ___ feet	
Riser Diameter and Material: 4" PVC		Riser/Screen Connections: <input type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)	Riser Length: 5 feet from 7 feet to 0 feet		
Screen Diameter and Material: 4" S.S.		Screen Slot Size: 0-010	Screen Length: 15 feet from 20 feet to 5 feet		
1 st Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		1 st Surface Casing I.D. (inches):	1 st Surface Casing Length: ___ feet from ___ feet to ___ feet		
2 nd Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		2 nd Surface Casing I.D. (inches):	2 nd Surface Casing Length: ___ feet from ___ feet to ___ feet		
3 rd Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		3 rd Surface Casing I.D. (inches):	3 rd Surface Casing Length: ___ feet from ___ feet to ___ feet		
Filter Pack Material and Size: 20/30 Sand	Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Filter Pack Length: 16 feet from 20 feet to 4 feet		
Filter Pack Seal Material and Size: Fine Sand		Filter Pack Seal Length: 0.5 feet from 4 feet to 3.5 feet			
Surface Seal Material: Cement Grout		Surface Seal Length: 1 feet from 3.5 feet to 2.5 feet			

WELL DEVELOPMENT DATA

Well Development Date:		Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)			
Development Pump Type (check): <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)		<input type="checkbox"/> Centrifugal <input type="checkbox"/> Peristaltic		Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):		Maximum Drawdown of Groundwater During Development (feet):		Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No	
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent		Total Development Water Removed (gallons):		Development Duration (minutes):	
Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No		Water Appearance (color and odor) At Start of Development:			
Water Appearance (color and odor) At End of Development:					

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

--

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: SVE 215		Site Name: Lafarge Road Marking		Well Install Date(s): 4/22/13	
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: Hollow Stem Auger	
If AG, list feet of riser above land surface:				Surface Casing Install Method: NA	
Borehole Depth (feet): 20	Well Depth (feet): 20	Borehole Diameter (inches): 10	Manhole Diameter (inches): 10	Well Pad Size: _____ feet by _____ feet	
Riser Diameter and Material: 4" S.S. PVC		Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)	Riser Length: 5 feet from 15.5 feet to 0 feet		
Screen Diameter and Material: 4" S.S.		Screen Slot Size: 0.010	Screen Length: 25 feet from 20 feet to 5 feet		
1 st Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		1 st Surface Casing I.D. (inches):	1 st Surface Casing Length: _____ feet from _____ feet to _____ feet		
2 nd Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		2 nd Surface Casing I.D. (inches):	2 nd Surface Casing Length: _____ feet from _____ feet to _____ feet		
3 rd Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		3 rd Surface Casing I.D. (inches):	3 rd Surface Casing Length: _____ feet from _____ feet to _____ feet		
Filter Pack Material and Size: 20/30 Sand		Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Filter Pack Length: 16 20 feet from 20 feet to 4 feet	
Filter Pack Seal Material and Size: Fine Sand				Filter Pack Seal Length: 0.5 feet from 1 feet to 4.5 feet	
Surface Seal Material: Cement Grout				Surface Seal Length: 1 feet from 4.5 feet to 3.5 feet	

WELL DEVELOPMENT DATA			
Well Development Date:		Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)	
Development Pump Type (check): <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)		Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):		Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development:		Water Appearance (color and odor) At End of Development:	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION DATA

Well Number: SVE-24216		Site Name: Lafarge Road Marking		Well Install Date(s): 9/24/13 SVE 4/20/13	
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: Hollow Stem Auger	
If AG, list feet of riser above land surface:				Surface Casing Install Method: NA	
Borehole Depth (feet): 20	Well Depth (feet): 20	Borehole Diameter (inches): 10	Manhole Diameter (inches): 10	Well Pad Size: _____ feet by _____ feet	
Riser Diameter and Material: 4" PVC	Riser/Screen Connections: <input type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)	Riser Length: 7 feet from 5 feet to 0 feet			
Screen Diameter and Material: 4" S.S.	Screen Slot Size: 0.010	Screen Length: 15 feet from 20 feet to 5 feet			
1 st Surface Casing Material: also check <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary	1 st Surface Casing I.D. (inches):	1 st Surface Casing Length: _____ feet from _____ feet to _____ feet			
2 nd Surface Casing Material: also check <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary	2 nd Surface Casing I.D. (inches):	2 nd Surface Casing Length: _____ feet from _____ feet to _____ feet			
3 rd Surface Casing Material: also check <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary	3 rd Surface Casing I.D. (inches):	3 rd Surface Casing Length: _____ feet from _____ feet to _____ feet			
Filter Pack Material and Size: 20/30 Sand	Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Filter Pack Length: 16 feet from 20 feet to 4 feet			
Filter Pack Seal Material and Size: Fine Sand		Filter Pack Seal Length: 0.5 feet from 4 feet to 3.5 feet			
Surface Seal Material:	Cement Grout	Surface Seal Length: 1 feet from 3.5 feet to 2.5 feet			

WELL DEVELOPMENT DATA

Well Development Date:		Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)			
Development Pump Type (check): <input type="checkbox"/> Centrifugal <input type="checkbox"/> Peristaltic <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)		Depth to Groundwater (before developing in feet):			
Pumping Rate (gallons per minute):		Maximum Drawdown of Groundwater During Development (feet):		Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No	
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent		Total Development Water Removed (gallons):		Development Duration (minutes):	
Water Appearance (color and odor) At Start of Development:		Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No			
Water Appearance (color and odor) At End of Development:		Water Appearance (color and odor) At End of Development:			

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION DATA

Number: <u>3 VE - 214 217</u> <small>mm</small>	Site Name: <u>Lafarge Road Marking</u>	Well Install Date(s): <u>4/24/13</u> <u>Site 4/20/13</u>
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)
If AG, list feet of riser above land surface:		Well Install Method: <u>Hollow Stem Auger</u> Surface Casing Install Method: <u>NA</u>
Borehole Depth (feet): <u>20</u>	Well Depth (feet): <u>20</u>	Borehole Diameter (inches): <u>10</u>
Manhole Diameter (inches): <u>10</u>	Well Pad Size: _____ feet by _____ feet	
Riser Diameter and Material: <u>4" PVC</u>	Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)	Riser Length: <u>5</u> feet from <u>5</u> feet to <u>0</u> feet
Screen Diameter and Material: <u>4" S.S.</u>	Screen Slot Size:	Screen Length: <u>15</u> feet from <u>20</u> feet to <u>5</u> feet
1 st Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary	1 st Surface Casing I.D. (inches):	1 st Surface Casing Length: _____ feet from _____ feet to _____ feet
2 nd Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary	2 nd Surface Casing I.D. (inches):	2 nd Surface Casing Length: _____ feet from _____ feet to _____ feet
3 rd Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary	3 rd Surface Casing I.D. (inches):	3 rd Surface Casing Length: _____ feet from _____ feet to _____ feet
Filter Pack Material and Size: <u>20/30 Sand</u>	Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Filter Pack Length: <u>16</u> feet from <u>20</u> feet to <u>4</u> feet
Filter Pack Seal Material and Size: <u>Finer Sand</u>		Filter Pack Seal Length: <u>0.5</u> feet from <u>4</u> feet to <u>3.5</u> feet
Surface Seal Material: <u>Cement Grout</u>		Surface Seal Length: <u>1</u> feet from <u>3.5</u> feet to <u>2.5</u> feet

WELL DEVELOPMENT DATA

Well Development Date:	Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)		
Development Pump Type (check): <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)	<input type="checkbox"/> Centrifugal <input type="checkbox"/> Peristaltic	Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):	Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No	
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development:		Water Appearance (color and odor) At End of Development:	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: <u>SVE-219 2.14</u>	Site Name: <u>Lafarge Road Marking</u>				Well Install Date(s): <u>SVE 4/20/13 4/25/13</u>
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: <u>Hollow Stem Auger</u>	
If AG, list feet of riser above land surface:				Surface Casing Install Method: <u>NA</u>	
Borehole Depth (feet): <u>20</u>	Well Depth (feet): <u>20</u>	Borehole Diameter (inches): <u>10</u>	Manhole Diameter (inches): <u>10</u>	Well Pad Size: <u> </u> feet by <u> </u> feet	
Riser Diameter and Material: <u>4" PVC</u>	Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)	Riser Length: <u>5</u> feet from <u>5</u> feet to <u>0</u> feet			
Screen Diameter and Material: <u>4" S.S.</u>	Screen Slot Size: <u>0.010</u>	Screen Length: <u>15</u> feet from <u>20</u> feet to <u>5</u> feet			
1 st Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary	1 st Surface Casing I.D. (inches):	1 st Surface Casing Length: <u> </u> feet from <u> </u> feet to <u> </u> feet			
2 nd Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary	2 nd Surface Casing I.D. (inches):	2 nd Surface Casing Length: <u> </u> feet from <u> </u> feet to <u> </u> feet			
3 rd Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary	3 rd Surface Casing I.D. (inches):	3 rd Surface Casing Length: <u> </u> feet from <u> </u> feet to <u> </u> feet			
Filter Pack Material and Size: <u>20/30 Sand</u>	Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Filter Pack Length: <u>16</u> feet from <u>20</u> feet to <u>4</u> feet			
Filter Pack Seal Material and Size: <u>Fine Sand</u>		Filter Pack Seal Length: <u>0.5</u> feet from <u>4</u> feet to <u>3.5</u> feet			
Surface Seal Material: <u>Cement Grout</u>		Surface Seal Length: <u>1</u> feet from <u>3.5</u> feet to <u>2.5</u> feet			

WELL DEVELOPMENT DATA			
Well Development Date:	Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)		
Development Pump Type (check): <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)	<input type="checkbox"/> Centrifugal <input type="checkbox"/> Peristaltic	Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):	Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No	
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development:		Water Appearance (color and odor) At End of Development:	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA				
Well Number: SVE-220	Site Name: Lafarge Road Marking		Well Install Date(s): 1/20/13	
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe) SVE		Well Install Method: Hollow Stem Auger
If AG, list feet of riser above land surface:				Surface Casing Install Method: NA
Borehole Depth (feet): 20	Well Depth (feet): 20	Borehole Diameter (inches):	Manhole Diameter (inches):	Well Pad Size: _____ feet by _____ feet
Riser Diameter and Material: 4" SCH 80 PVC		Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)	Riser Length: 5 feet from 0 feet to 5 feet	
Screen Diameter and Material: 4" SS Wire wrap		Screen Slot Size: 0.010"	Screen Length: 15 feet from 5 feet to 20 feet	
1 st Surface Casing Material: also check <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		1 st Surface Casing I.D. (inches):	1 st Surface Casing Length: _____ feet from _____ feet to _____ feet	
2 nd Surface Casing Material: also check <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		2 nd Surface Casing I.D. (inches):	2 nd Surface Casing Length: _____ feet from _____ feet to _____ feet	
3 rd Surface Casing Material: also check <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		3 rd Surface Casing I.D. (inches):	3 rd Surface Casing Length: _____ feet from _____ feet to _____ feet	
Filter Pack Material and Size: 20/30 Sand	Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Filter Pack Length: _____ feet from _____ feet to 20 feet	
Filter Pack Seal Material and Size: 20 Fine Sand			Filter Pack Seal Length: _____ feet from _____ feet to _____ feet	
Surface Seal Material: Cement Grout			Surface Seal Length: _____ feet from _____ feet to _____ feet	

WELL DEVELOPMENT DATA			
Well Development Date:	Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)		
Development Pump Type (check): <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)	<input type="checkbox"/> Centrifugal <input type="checkbox"/> Peristaltic	Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):	Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No	
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development:		Water Appearance (color and odor) At End of Development:	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: <i>NE - 301</i>	Site Name: <i>Lafarge Road Marking</i>			Well Install Date(s): <i>4/24/13</i>	
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: <i>Hollow Stem Auger</i>	
If AG, list feet of riser above land surface:		Surface Casing Install Method: <i>NA</i>			
Borehole Depth (feet): <i>20</i>	Well Depth (feet): <i>20</i>	Borehole Diameter (inches): <i>10</i>	Manhole Diameter (inches): <i>10</i>	Well Pad Size: <i>—</i> feet by <i>—</i> feet	
Riser Diameter and Material: <i>4" PVC</i>	Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)	Riser Length: <i>5</i> feet from <i>5</i> feet to <i>0</i> feet			
Screen Diameter and Material: <i>4" / S.S.</i>	Screen Slot Size: <i>0.010</i>	Screen Length: <i>15</i> feet from <i>20</i> feet to <i>5</i> feet			
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
Filter Pack Material and Size: <i>20/30 Sand</i>	Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Filter Pack Length: <i>16</i> feet from <i>20</i> feet to <i>4</i> feet		
Filter Pack Seal Material and Size: <i>Fine Sand</i>			Filter Pack Seal Length: <i>0.5</i> feet from <i>4</i> feet to <i>3.5</i> feet		
Surface Seal Material: <i>Cement Grout</i>			Surface Seal Length: <i>1</i> feet from <i>3.5</i> feet to <i>2.5</i> feet		

WELL DEVELOPMENT DATA			
Well Development Date:	Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)		
Development Pump Type (check): <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)	<input type="checkbox"/> Centrifugal <input type="checkbox"/> Peristaltic	Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):	Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No	
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development:		Water Appearance (color and odor) At End of Development:	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA				
Well Number: <u>SUE-302</u>	Site Name: <u>Lafarge Road Marking</u>		Well Install Date(s): <u>6/25/13</u>	
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deen Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: <u>Hollow Stem Auger</u>
If AG, list feet of riser above land surface:		Surface Casing Install Method: <u>NA</u>		
Borehole Depth (feet): <u>20</u>	Well Depth (feet): <u>20</u>	Borehole Diameter (inches): <u>10</u>	Manhole Diameter (inches): <u>10</u>	Well Pad Size: <u> </u> feet by <u> </u> feet
Riser Diameter and Material: <u>4" PVC</u>	Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)	Riser Length: <u>5</u> feet from <u>5</u> feet to <u>0</u> feet		
Screen Diameter and Material: <u>4" SS</u>	Screen Slot Size: <u>0.01</u>	Screen Length: <u>15</u> feet from <u>20</u> feet to <u>5</u> feet		
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary				
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary				
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary				
Filter Pack Material and Size: <u>20/30 Sand</u>	Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Filter Pack Length: <u>16</u> feet from <u>20</u> feet to <u>4</u> feet		
Filter Pack Seal Material and Size: <u>Fine Sand</u>	Filter Pack Seal Length: <u>0.5</u> feet from <u>4</u> feet to <u>3.5</u> feet			
Surface Seal Material: <u>Cement Grout</u>	Surface Seal Length: <u>1</u> feet from <u>3.5</u> feet to <u>2.5</u> feet			

WELL DEVELOPMENT DATA			
Well Development Date:	Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)		
Development Pump Type (check): <input type="checkbox"/> Centrifugal <input type="checkbox"/> Peristaltic <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)	Depth to Groundwater (before developing in feet):		
Pumping Rate (gallons per minute):	Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No	
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development:		Water Appearance (color and odor) At End of Development:	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: <u>SUE - 303</u>	Site Name: <u>Lafarge Road Marking</u>			Well Install Date(s): <u>6/25/13</u>	
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: <u>Hollow Stem Auger</u>	
If AG, list feet of riser above land surface:				Surface Casing Install Method: <u>NA</u>	
Borehole Depth (feet): <u>20</u>	Well Depth (feet): <u>20</u>	Borehole Diameter (inches): <u>10</u>	Manhole Diameter (inches): <u>10</u>	Well Pad Size: <u> </u> feet by <u> </u> feet	
Riser Diameter and Material: <u>4" PVC</u>		Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)		Riser Length: <u>5</u> feet from <u>5</u> feet to <u>0</u> feet	
Screen Diameter and Material: <u>4" S.S.</u>		Screen Slot Size: <u>0.010</u>		Screen Length: <u>15</u> feet from <u>20</u> feet to <u>5</u> feet	
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
Filter Pack Material and Size: <u>20/30 Sand</u>	Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Filter Pack Length: <u>16</u> feet from <u>20</u> feet to <u>4</u> feet		
Filter Pack Seal Material and Size: <u>Fine Sand</u>	Filter Pack Seal Length: <u>0.5</u> feet from <u>4</u> feet to <u>3.5</u> feet				
Surface Seal Material: <u>Cement Grout</u>	Surface Seal Length: <u>1</u> feet from <u>3.5</u> feet to <u>2.5</u> feet				

WELL DEVELOPMENT DATA			
Well Development Date:		Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)	
Development Pump Type (check): <input type="checkbox"/> Centrifugal <input type="checkbox"/> Peristaltic <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)		Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):	Maximum Drawdown of Groundwater During Development (feet):		Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development:		Water Appearance (color and odor) At End of Development:	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: <u>SVB-304</u>	Site Name: <u>Lafarge Road Marking</u>			Well Install Date(s): <u>6/25/13</u>	
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: <u>Hollow Stem Auger</u>	
If AG, list feet of riser above land surface:				Surface Casing Install Method: <u>NA</u>	
Borehole Depth (feet): <u>20</u>	Well Depth (feet): <u>20</u>	Borehole Diameter (inches): <u>10</u>	Manhole Diameter (inches): <u>10</u>	Well Pad Size: <u> </u> feet by <u> </u> feet	
Riser Diameter and Material: <u>4" PVC</u>	Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)	Riser Length: <u>5</u> feet from <u>5</u> feet to <u>0</u> feet			
Screen Diameter and Material: <u>4" / S.C.</u>	Screen Slot Size: <u>0.010</u>	Screen Length: <u>15</u> feet from <u>20</u> feet to <u>5</u> feet			
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
Filter Pack Material and Size: <u>20/30 Sand</u>	Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Filter Pack Length: <u>16</u> feet from <u>20</u> feet to <u>4</u> feet		
Filter Pack Seal Material and Size: <u>Fine Sand</u>			Filter Pack Seal Length: <u>0.5</u> feet from <u>4</u> feet to <u>3.5</u> feet		
Surface Seal Material: <u>Cement Grout</u>			Surface Seal Length: <u>1</u> feet from <u>3.5</u> feet to <u>2.5</u> feet		

WELL DEVELOPMENT DATA			
Well Development Date:	Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)		
Development Pump Type (check): <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)	<input type="checkbox"/> Centrifugal <input type="checkbox"/> Peristaltic	Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):	Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No	
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development:		Water Appearance (color and odor) At End of Development:	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: <u>SUE 304</u>	Site Name: <u>Lafarge Road Marking</u>			Well Install Date(s): <u>6/21/13</u>	
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input checked="" type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: <u>Hollow Stem Auger</u>	
If AG, list feet of riser above land surface:				Surface Casing Install Method: <u>NA</u>	
Borehole Depth (feet): <u>20</u>	Well Depth (feet): <u>20</u>	Borehole Diameter (inches): <u>10</u>	Manhole Diameter (inches): <u>10</u>	Well Pad Size: <u>2</u> feet by <u>1</u> feet	
Riser Diameter and Material: <u>4" PVC</u>	Riser/Screen Connections: <input type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)			Riser Length: <u>5</u> feet from <u>5</u> feet to <u>0</u> feet	
Screen Diameter and Material: <u>4" PVC 5.5</u>		Screen Slot Size: <u>0.010</u>		Screen Length: <u>15</u> feet from <u>20</u> feet to <u>5</u> feet	
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
Filter Pack Material and Size: <u>20/30 Sand</u>	Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Filter Pack Length: <u>16</u> feet from <u>20</u> feet to <u>4</u> feet		
Filter Pack Seal Material and Size: <u>Fine Sand</u>		Filter Pack Seal Length: <u>0.5</u> feet from <u>4</u> feet to <u>3.5</u> feet			
Surface Seal Material: <u>Cement Grout</u>		Surface Seal Length: <u>1</u> feet from <u>3.5</u> feet to <u>1.5</u> feet			

WELL DEVELOPMENT DATA			
Well Development Date:		Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)	
Development Pump Type (check): <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)		Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):		Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development:		Water Appearance (color and odor) At End of Development:	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: <u>SVE-305</u>	Site Name: <u>Lafarge Road Marking</u>			Well Install Date(s): <u>6/20/13</u>	
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: <u>Hollow Stem Auger</u>	
If AG, list feet of riser above land surface:				Surface Casing Install Method: <u>NA</u>	
Borehole Depth (feet): <u>20</u>	Well Depth (feet): <u>20</u>	Borehole Diameter (inches): <u>10</u>	Manhole Diameter (inches): <u>10</u>	Well Pad Size: <u> </u> feet by <u> </u> feet	
Riser Diameter and Material: <u>4" / PVC</u>		Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)	Riser Length: <u>5</u> feet from <u>5</u> feet to <u>0</u> feet		
Screen Diameter and Material: <u>4" / S.S.</u>		Screen Slot Size: <u>0.010</u>	Screen Length: <u>15</u> feet from <u>20</u> feet to <u>5</u> feet		
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
Filter Pack Material and Size: <u>20/30 Sand</u>	Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Filter Pack Length: <u>16</u> feet from <u>20</u> feet to <u>4</u> feet		
Filter Pack Seal Material and Size: <u>Fine Sand</u>			Filter Pack Seal Length: <u>0.5</u> feet from <u>4</u> feet to <u>3.5</u> feet		
Surface Seal Material: <u>Cement Grout</u>		Surface Seal Length: <u>7</u> feet from <u>3.5</u> feet to <u>2.5</u> feet			

WELL DEVELOPMENT DATA			
Well Development Date:	Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)		
Development Pump Type (check): <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)	<input type="checkbox"/> Centrifugal <input type="checkbox"/> Peristaltic	Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):	Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No	
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development:		Water Appearance (color and odor) At End of Development:	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: <u>SVU-309</u>	Site Name: <u>Lafarge Road Marking</u>			Well Install Date(s): <u>6/13/13</u>	
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: <u>Hollow Stem Auger</u>	
If AG, list feet of riser above land surface:				Surface Casing Install Method: <u>NA</u>	
Borehole Depth (feet): <u>25</u>	Well Depth (feet): <u>25</u>	Borehole Diameter (inches): <u>10</u>	Manhole Diameter (inches): <u>10</u>	Well Pad Size: <u> </u> feet by <u> </u> feet	
Riser Diameter and Material: <u>4" / PVC</u>	Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-T threaded <input type="checkbox"/> Other (describe)			Riser Length: <u>5</u> feet from <u>5</u> feet to <u>0</u> feet	
Screen Diameter and Material: <u>4" / S.S.</u>	Screen Slot Size: <u>0.010</u>			Screen Length: <u>20</u> feet from <u>25</u> feet to <u>5</u> feet	
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
Filter Pack Material and Size: <u>20/30 Sand</u>	Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Filter Pack Length: <u>21</u> feet from <u>25</u> feet to <u>4</u> feet		
Filter Pack Seal Material and Size: <u>Fine Sand</u>			Filter Pack Seal Length: <u>0.5</u> feet from <u>4</u> feet to <u>3.5</u> feet		
Surface Seal Material: <u>Cement Grout</u>			Surface Seal Length: <u>1</u> feet from <u>3.5</u> feet to <u>2.5</u> feet		

WELL DEVELOPMENT DATA			
Well Development Date:	Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)		
Development Pump Type (check): <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)	<input type="checkbox"/> Centrifugal <input type="checkbox"/> Peristaltic	Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):	Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No	
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development:		Water Appearance (color and odor) At End of Development:	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: <u>SUE-310</u>	Site Name: <u>Lafarge Road Marking</u>			Well Install Date(s): <u>6/18/13</u>	
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: <u>Hollow Stem Auger</u>	
If AG, list feet of riser above land surface:		Surface Casing Install Method: <u>NA</u>			
Borehole Depth (feet): <u>25</u>	Well Depth (feet): <u>25</u>	Borehole Diameter (inches): <u>10</u>	Manhole Diameter (inches): <u>10</u>	Well Pad Size: <u> </u> feet by <u> </u> feet	
Riser Diameter and Material: <u>4" PVC</u>		Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)	Riser Length: <u>5</u> feet from <u>5</u> feet to <u>0</u> feet		
Screen Diameter and Material: <u>4" ISS.</u>		Screen Slot Size: <u>0010</u>	Screen Length: <u>20</u> feet from <u>25</u> feet to <u>5</u> feet		
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
Filter Pack Material and Size: <u>20/30 Sand</u>		Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Filter Pack Length: <u>21</u> feet from <u>25</u> feet to <u>4</u> feet		
Filter Pack Seal Material and Size: <u>Fine Sand</u>		Filter Pack Seal Length: <u>0.5</u> feet from <u>4</u> feet to <u>3.5</u> feet			
Surface Seal Material: <u>Cement Grout</u>		Surface Seal Length: <u>1</u> feet from <u>3.5</u> feet to <u>2.5</u> feet			

WELL DEVELOPMENT DATA			
Well Development Date:		Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)	
Development Pump Type (check): <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)		Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):		Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development:		Water Appearance (color and odor) At End of Development:	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: <u>SUE-311</u>	Site Name: <u>Lafarge Road Marking</u>			Well Install Date(s): <u>6/13/13</u>	
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: <u>Hollow Stem Auger</u>	
If AG, list feet of riser above land surface:				Surface Casing Install Method: <u>NA</u>	
Borehole Depth (feet): <u>25</u>	Well Depth (feet): <u>25</u>	Borehole Diameter (inches): <u>10</u>	Manhole Diameter (inches): <u>10</u>	Well Pad Size: <u> </u> feet by <u> </u> feet	
Riser Diameter and Material: <u>4" PVC</u>	Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)	Riser Length: <u>5</u> feet from <u>5</u> feet to <u>0</u> feet			
Screen Diameter and Material: <u>4" S-S.</u>	Screen Slot Size: <u>0.010</u>	Screen Length: <u>20</u> feet from <u>25</u> feet to <u>5</u> feet			
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
Filter Pack Material and Size: <u>20/30 Sand</u>	Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Filter Pack Length: <u>21</u> feet from <u>25</u> feet to <u>4</u> feet		
Filter Pack Seal Material and Size: <u>Fine Sand</u>			Filter Pack Seal Length: <u>0.5</u> feet from <u>4</u> feet to <u>3.5</u> feet		
Surface Seal Material: <u>Cement Grout</u>			Surface Seal Length: <u>1</u> feet from <u>3.5</u> feet to <u>2.5</u> feet		

WELL DEVELOPMENT DATA			
Well Development Date:		Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)	
Development Pump Type (check): <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)		Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):		Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development:		Water Appearance (color and odor) At End of Development:	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: <u>SVE - 312</u>	Site Name: <u>Lafarge Road Marking</u>			Well Install Date(s): <u>6/12/13</u>	
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: <u>Hollow Stem Auger</u>	
If AG, list feet of riser above land surface:		Surface Casing Install Method: <u>NA</u>			
Borehole Depth (feet): <u>27</u>	Well Depth (feet): <u>27</u>	Borehole Diameter (inches): <u>10</u>	Manhole Diameter (inches): <u>10</u>	Well Pad Size: _____ feet by _____ feet	
Riser Diameter and Material: <u>4" / PVC</u>		Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)		Riser Length: <u>5</u> feet from <u>5</u> feet to <u>0</u> feet	
Screen Diameter and Material: <u>4" / SS</u>		Screen Slot Size: <u>0-010</u>		Screen Length: <u>20</u> feet from <u>25</u> feet to <u>5</u> feet	
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
Filter Pack Material and Size: <u>20/30 Sand</u>		Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Filter Pack Length: <u>21</u> feet from <u>25</u> feet to <u>4</u> feet	
Filter Pack Seal Material and Size: <u>Fine Sand</u>		Filter Pack Seal Length: <u>0.5</u> feet from <u>4</u> feet to <u>3.5</u> feet			
Surface Seal Material: <u>Cement Grout</u>		Surface Seal Length: <u>1</u> feet from <u>3.5</u> feet to <u>2.5</u> feet			

WELL DEVELOPMENT DATA			
Well Development Date:		Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)	
Development Pump Type (check): <input type="checkbox"/> Centrifugal <input type="checkbox"/> Peristaltic <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)		Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):		Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development:		Water Appearance (color and odor) At End of Development:	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA				
Well Number: <u>SVC 314</u>	Site Name: <u>Lafarge Road Marking</u>		Well Install Date(s): <u>6/19/13</u>	
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: <u>Hollow Stem Auger</u>
If AG, list feet of riser above land surface:		Surface Casing Install Method: <u>NA</u>		
Borehole Depth (feet): <u>25</u>	Well Depth (feet): <u>25</u>	Borehole Diameter (inches): <u>10</u>	Manhole Diameter (inches): <u>10</u>	Well Pad Size: <u> </u> feet by <u> </u> feet
Riser Diameter and Material: <u>4" / PVC</u>	Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)	Riser Length: <u>5</u> feet from <u>5</u> feet to <u>0</u> feet		
Screen Diameter and Material: <u>4" / SS</u>	Screen Slot Size: <u>0.010</u>	Screen Length: <u>20</u> feet from <u>25</u> feet to <u>5</u> feet		
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary				
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary				
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary				
Filter Pack Material and Size: <u>20/30 Sand</u>	Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Filter Pack Length: <u>21</u> feet from <u>25</u> feet to <u>4</u> feet		
Filter Pack Seal Material and Size: <u>Fine Sand</u>		Filter Pack Seal Length: <u>0.5</u> feet from <u>4</u> feet to <u>3.5</u> feet		
Surface Seal Material: <u>Cement Grout</u>		Surface Seal Length: <u>1</u> feet from <u>3.5</u> feet to <u>2.5</u> feet		

WELL DEVELOPMENT DATA			
Well Development Date:	Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)		
Development Pump Type (check): <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)	<input type="checkbox"/> Centrifugal <input type="checkbox"/> Peristaltic	Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):	Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No	
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development:		Water Appearance (color and odor) At End of Development:	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: <u>SVE-315</u>		Site Name: <u>Lafarge Road Marking</u>		Well Install Date(s): <u>6/19/13</u>	
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: <u>Hollow Stem Auger</u>	
If AG, list feet of riser above land surface:				Surface Casing Install Method: <u>NA</u>	
Borehole Depth (feet): <u>25</u>	Well Depth (feet): <u>25</u>	Borehole Diameter (inches): <u>10</u>	Manhole Diameter (inches): <u>10</u>	Well Pad Size: ___ feet by ___ feet	
Riser Diameter and Material: <u>4" / PVC</u>	Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)			Riser Length: <u>5</u> feet from <u>5</u> feet to <u>0</u> feet	
Screen Diameter and Material: <u>4" / S.S.</u>	Screen Slot Size: <u>0.010</u>			Screen Length: <u>20</u> feet from <u>25</u> feet to <u>5</u> feet	
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
Filter Pack Material and Size: <u>20/30 Sand</u>	Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Filter Pack Length: <u>21</u> feet from <u>25</u> feet to <u>4</u> feet			
Filter Pack Seal Material and Size: <u>Fine Sand</u>		Filter Pack Seal Length: <u>0.5</u> feet from <u>4</u> feet to <u>3.5</u> feet			
Surface Seal Material: <u>Cement Grout</u>		Surface Seal Length: <u>1</u> feet from <u>3.5</u> feet to <u>2.5</u> feet			

WELL DEVELOPMENT DATA			
Well Development Date:		Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)	
Development Pump Type (check): <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)		Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):		Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development:		Water Appearance (color and odor) At End of Development:	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: <u>SYF-316</u>	Site Name: <u>Lafarge Road Marking</u>			Well Install Date(s): <u>5/31/17</u>	
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: <u>Hollow Stem Auger</u>	
If AG, list feet of riser above land surface:				Surface Casing Install Method: <u>NA</u>	
Borehole Depth (feet): <u>25</u>	Well Depth (feet): <u>25</u>	Borehole Diameter (inches): <u>10</u>	Manhole Diameter (inches): <u>10</u>	Well Pad Size: _____ feet by _____ feet	
Riser Diameter and Material: <u>4" PVC</u>	Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)			Riser Length: <u>5</u> feet from <u>5</u> feet to <u>10</u> feet	
Screen Diameter and Material: <u>4" SS</u>		Screen Slot Size: <u>0.010</u>		Screen Length: <u>20</u> feet from <u>25</u> feet to <u>5</u> feet	
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
Filter Pack Material and Size: <u>20/30 Sand</u>	Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Filter Pack Length: <u>21.75</u> feet from <u>25</u> feet to <u>4</u> feet		
Filter Pack Seal Material and Size: <u>Fine Sand</u>			Filter Pack Seal Length: <u>0.5</u> feet from <u>4</u> feet to <u>3.5</u> feet		
Surface Seal Material: <u>Cement Grout</u>		Surface Seal Length: <u>1</u> feet from <u>3.5</u> feet to <u>2.5</u> feet			

WELL DEVELOPMENT DATA			
Well Development Date:	Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)		
Development Pump Type (check): <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)	<input type="checkbox"/> Centrifugal <input type="checkbox"/> Peristaltic	Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):	Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No	
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development:		Water Appearance (color and odor) At End of Development:	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: SVE-317	Site Name: Lafarge Road Marking			Well Install Date(s): 5/31/13	
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: Hollow Stem Auger	
If AG, list feet of riser above land surface:				Surface Casing Install Method: NA	
Borehole Depth (feet): 25	Well Depth (feet): 25	Borehole Diameter (inches): 10	Manhole Diameter (inches): 10	Well Pad Size: _____ feet by _____ feet	
Riser Diameter and Material: 4" PVC	Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)			Riser Length: 5 feet from 5 feet to 6 feet	
Screen Diameter and Material: 4" SS		Screen Slot Size: 0,010		Screen Length: 20 feet from 25 feet to 5 feet	
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
Filter Pack Material and Size: 20/30 Sand	Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Filter Pack Length: 21 70 feet from 25 feet to 4 feet		
Filter Pack Seal Material and Size: Fine Sand		Filter Pack Seal Length: 0.5 feet from 4 feet to 3.5 feet			
Surface Seal Material: Cement Grout		Surface Seal Length: 1 feet from 3.5 feet to 2.5 feet			

WELL DEVELOPMENT DATA			
Well Development Date:		Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)	
Development Pump Type (check): <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)		Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):		Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development:		Water Appearance (color and odor) At End of Development:	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: <u>SVE-319</u>	Site Name: <u>Lafarge Road Marking</u>			Well Install Date(s): <u>6/19/13</u>	
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: <u>Hollow Stem Auger</u>	
If AG, list feet of riser above land surface:				Surface Casing Install Method: <u>NA</u>	
Borehole Depth (feet): <u>25</u>	Well Depth (feet): <u>25</u>	Borehole Diameter (inches): <u>10</u>	Manhole Diameter (inches): <u>10</u>	Well Pad Size: ___ feet by ___ feet	
Riser Diameter and Material: <u>4" PVC</u>	Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)			Riser Length: <u>5</u> feet from <u>5</u> feet to <u>0</u> feet	
Screen Diameter and Material: <u>4" S.S.</u>	Screen Slot Size: <u>0.075</u>			Screen Length: <u>20</u> feet from <u>25</u> feet to <u>5</u> feet	
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
Filter Pack Material and Size: <u>20/30 Sand</u>	Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			Filter Pack Length: <u>24</u> feet from <u>25</u> feet to <u>4</u> feet	
Filter Pack Seal Material and Size: <u>Fine Sand</u>				Filter Pack Seal Length: <u>0.5</u> feet from <u>4</u> feet to <u>3.5</u> feet	
Surface Seal Material: <u>Cement Grout</u>				Surface Seal Length: <u>1</u> feet from <u>3.5</u> feet to <u>2.5</u> feet	

WELL DEVELOPMENT DATA			
Well Development Date:	Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)		
Development Pump Type (check): <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)	<input type="checkbox"/> Centrifugal <input type="checkbox"/> Peristaltic	Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):	Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No	
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development:		Water Appearance (color and odor) At End of Development:	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: <u>SVE-321</u>	Site Name: <u>Lafarge Road Marking</u>			Well Install Date(s): <u>6/20/13</u>	
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: <u>Hollow Stem Auger</u>	
If AG, list feet of riser above land surface:				Surface Casing Install Method: <u>NA</u>	
Borehole Depth (feet): <u>29</u>	Well Depth (feet): <u>25</u>	Borehole Diameter (inches): <u>10</u>	Manhole Diameter (inches): <u>10</u>	Well Pad Size: _____ feet by _____ feet	
Riser Diameter and Material: <u>4" / PVC</u>	Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)	Riser Length: <u>5</u> feet from <u>5</u> feet to <u>0</u> feet			
Screen Diameter and Material: <u>4" / S.S.</u>	Screen Slot Size: <u>0.010</u>	Screen Length: <u>20</u> feet from <u>25</u> feet to <u>5</u> feet			
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
Filter Pack Material and Size: <u>20/30 Sand</u>	Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Filter Pack Length: <u>21</u> feet from <u>25</u> feet to <u>4</u> feet			
Filter Pack Seal Material and Size: <u>Fine Sand</u>		Filter Pack Seal Length: <u>0.5</u> feet from <u>4</u> feet to <u>3.5</u> feet			
Surface Seal Material: <u>Cement Grout</u>		Surface Seal Length: <u>1</u> feet from <u>3.5</u> feet to <u>2.5</u> feet			

WELL DEVELOPMENT DATA			
Well Development Date:	Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)		
Development Pump Type (check): <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)	<input type="checkbox"/> Centrifugal <input type="checkbox"/> Peristaltic	Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):	Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No	
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development:		Water Appearance (color and odor) At End of Development:	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA				
Well Number: <u>SVE-401</u>	Site Name: <u>Lafarge Road Marking</u>			Well Install Date(s): <u>6/20/13</u>
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: <u>Hollow Stem Auger</u>
If AG, list feet of riser above land surface:				Surface Casing Install Method: <u>NA</u>
Borehole Depth (feet): <u>20</u>	Well Depth (feet): <u>20</u>	Borehole Diameter (inches): <u>10</u>	Manhole Diameter (inches): <u>10</u>	Well Pad Size: ___ feet by ___ feet
Riser Diameter and Material: <u>4" / PVC</u>	Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)	Riser Length: <u>5</u> feet from <u>5</u> feet to <u>0</u> feet		
Screen Diameter and Material: <u>4" / S.S.</u>	Screen Slot Size: <u>0-010</u>	Screen Length: <u>15</u> feet from <u>20</u> feet to <u>5</u> feet		
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary				
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary				
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary				
Filter Pack Material and Size: <u>20/30 Sand</u>	Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Filter Pack Length: <u>16</u> feet from <u>20</u> feet to <u>4</u> feet		
Filter Pack Seal Material and Size: <u>Fine Sand</u>		Filter Pack Seal Length: <u>0.5</u> feet from <u>4</u> feet to <u>3.5</u> feet		
Surface Seal Material: <u>Cement Grout</u>		Surface Seal Length: <u>1</u> feet from <u>3.5</u> feet to <u>2.5</u> feet		

WELL DEVELOPMENT DATA			
Well Development Date:	Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)		
Development Pump Type (check): <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)	<input type="checkbox"/> Centrifugal <input type="checkbox"/> Peristaltic	Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):	Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No	
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development:		Water Appearance (color and odor) At End of Development:	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: <u>SVE-402</u>		Site Name: <u>Lafarge Road Marking</u>		Well Install Date(s): <u>6/7/13</u>	
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: <u>Hollow Stem Auger</u>	
If AG, list feet of riser above land surface:				Surface Casing Install Method: <u>NA</u>	
Borehole Depth (feet): <u>20</u>	Well Depth (feet): <u>20</u>	Borehole Diameter (inches): <u>10</u>	Manhole Diameter (inches): <u>10</u>	Well Pad Size: <u> </u> feet by <u> </u> feet	
Riser Diameter and Material: <u>4" / PVC</u>		Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)		Riser Length: <u>5</u> feet from <u>5</u> feet to <u>0</u> feet	
Screen Diameter and Material: <u>4" / S.S.</u>		Screen Slot Size: <u> </u>		Screen Length: <u>15</u> feet from <u>20</u> feet to <u>5</u> feet	
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
Filter Pack Material and Size: <u>20/30 Sand</u>		Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Filter Pack Length: <u>16</u> feet from <u>20</u> feet to <u>4</u> feet	
Filter Pack Seal Material and Size: <u>Fine Sand</u>				Filter Pack Seal Length: <u>0.5</u> feet from <u>4</u> feet to <u>3.5</u> feet	
Surface Seal Material: <u>Cement Grout</u>				Surface Seal Length: <u>1</u> feet from <u>3.5</u> feet to <u>2.5</u> feet	

WELL DEVELOPMENT DATA			
Well Development Date:		Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)	
Development Pump Type (check): <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)		Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):		Maximum Drawdown of Groundwater During Development (feet):	
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent		Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No	
Total Development Water Removed (gallons):		Development Duration (minutes):	
Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No			
Water Appearance (color and odor) At Start of Development:		Water Appearance (color and odor) At End of Development:	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: <u>SVE-403</u>	Site Name: <u>Lafarge Road Marking</u>			Well Install Date(s): <u>6/5/15</u>	
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: <u>Hollow Stem Auger</u>	
If AG, list feet of riser above land surface:				Surface Casing Install Method: <u>NA</u>	
Borehole Depth (feet): <u>20</u>	Well Depth (feet): <u>20</u>	Borehole Diameter (inches): <u>10</u>	Manhole Diameter (inches): <u>10</u>	Well Pad Size: <u> </u> feet by <u> </u> feet	
Riser Diameter and Material: <u>4" / PVC</u>	Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)			Riser Length: <u>5</u> feet from <u>5</u> feet to <u>0</u> feet	
Screen Diameter and Material: <u>4" / S.S.</u>		Screen Slot Size:		Screen Length: <u>15</u> feet from <u>20</u> feet to <u>5</u> feet	
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
Filter Pack Material and Size: <u>20/30 Sand</u>	Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Filter Pack Length: <u>16</u> feet from <u>20</u> feet to <u>4</u> feet		
Filter Pack Seal Material and Size: <u>Fine Sand</u>			Filter Pack Seal Length: <u>0.5</u> feet from <u>4</u> feet to <u>3.5</u> feet		
Surface Seal Material: <u>Cement Grout</u>		Surface Seal Length: <u>1</u> feet from <u>3.5</u> feet to <u>2.5</u> feet			

WELL DEVELOPMENT DATA			
Well Development Date:	Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)		
Development Pump Type (check): <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)	<input type="checkbox"/> Centrifugal <input type="checkbox"/> Peristaltic	Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):	Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No	
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development:		Water Appearance (color and odor) At End of Development:	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: SVE - 404	Site Name: Lafarge Road Marking			Well Install Date(s): 6/2/13	
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: Hollow Stem Auger	
If AG, list feet of riser above land surface:				Surface Casing Install Method: NA	
Borehole Depth (feet): 20	Well Depth (feet): 20	Borehole Diameter (inches): 10	Manhole Diameter (inches):	Well Pad Size: _____ feet by _____ feet	
Riser Diameter and Material: 4/PVC		Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)		Riser Length: 5 feet from 0 feet to 5 feet	
Screen Diameter and Material: 4/SS		Screen Slot Size: 0.010		Screen Length: 15 feet from 5 feet to 20 feet	
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
Filter Pack Material and Size: 20/30 Sand		Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Filter Pack Length: 4 feet from 20 feet to 4 feet	
Filter Pack Seal Material and Size: fine sand				Filter Pack Seal Length: 0.5 feet from 4 feet to 3.5 feet	
Surface Seal Material: Cement Grout				Surface Seal Length: 1 feet from 3.5 feet to 2.5 feet	

WELL DEVELOPMENT DATA			
Well Development Date:		Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)	
Development Pump Type (check): <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)		Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):		Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development:		Water Appearance (color and odor) At End of Development:	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: SVE-405		Site Name: Lafarge Road Marking		Well Install Date(s): 6/1/13	
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: Hollow Stem Auger	
If AG, list feet of riser above land surface:				Surface Casing Install Method: NA	
Borehole Depth (feet): 3520	Well Depth (feet): 20	Borehole Diameter (inches): 10	Manhole Diameter (inches): 10	Well Pad Size: _____ feet by _____ feet	
Riser Diameter and Material: 4" PVC		Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)		Riser Length: 5 feet from 5 feet to 0 feet	
Screen Diameter and Material: 4" SS		Screen Slot Size: 0.010		Screen Length: 520 feet from 3520 feet to 5 feet	
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
Filter Pack Material and Size: 20/30 Sand		Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Filter Pack Length: 910 feet from 20 feet to 4 feet	
Filter Pack Seal Material and Size: fine Sand				Filter Pack Seal Length: 0.5 feet from 4 feet to 3.5 feet	
Surface Seal Material: Cement Grout				Surface Seal Length: 1 feet from 3.5 feet to 2.5 feet	

WELL DEVELOPMENT DATA			
Well Development Date:		Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)	
Development Pump Type (check): <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)		Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):		Maximum Drawdown of Groundwater During Development (feet):	
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent		Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No	
Total Development Water Removed (gallons):		Development Duration (minutes):	
Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No		Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No	
Water Appearance (color and odor) At Start of Development:		Water Appearance (color and odor) At End of Development:	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: <u>SVE-407</u>	Site Name: <u>Lafarge Road Marking</u>			Well Install Date(s): <u>6/20/13</u>	
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: <u>Hollow Stem Auger</u>	
If AG, list feet of riser above land surface:				Surface Casing Install Method: <u>NA</u>	
Borehole Depth (feet): <u>25</u>	Well Depth (feet): <u>25</u>	Borehole Diameter (inches): <u>10</u>	Manhole Diameter (inches): <u>10</u>	Well Pad Size: _____ feet by _____ feet	
Riser Diameter and Material: <u>4" / PVC</u>	Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-T threaded <input type="checkbox"/> Other (describe)			Riser Length: <u>5</u> feet from <u>5</u> feet to <u>0</u> feet	
Screen Diameter and Material: <u>4" / S.S.</u>		Screen Slot Size: <u>0.010</u>		Screen Length: <u>20</u> feet from <u>25</u> feet to <u>5</u> feet	
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
Filter Pack Material and Size: <u>20/30 Sand</u>	Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Filter Pack Length: <u>21</u> feet from <u>25</u> feet to <u>4</u> feet		
Filter Pack Seal Material and Size: <u>Fine Sand</u>				Filter Pack Seal Length: <u>0.5</u> feet from <u>4</u> feet to <u>3.5</u> feet	
Surface Seal Material: <u>Cement Grout</u>				Surface Seal Length: <u>1</u> feet from <u>3.5</u> feet to <u>2.5</u> feet	

WELL DEVELOPMENT DATA			
Well Development Date:		Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)	
Development Pump Type (check): <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)		Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):		Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development:		Water Appearance (color and odor) At End of Development:	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: <u>SVE-409</u>		Site Name: <u>Lafarge Road Marking</u>		Well Install Date(s): <u>6/5/13</u>	
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade			Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: <u>Hollow Stem Auger</u>
If AG, list feet of riser above land surface:			Surface Casing Install Method: <u>NA</u>		
Borehole Depth (feet): <u>20</u>	Well Depth (feet): <u>20</u>	Borehole Diameter (inches): <u>10</u>	Manhole Diameter (inches): <u>10</u>	Well Pad Size: <u> </u> feet by <u> </u> feet	
Riser Diameter and Material: <u>4" / PVC</u>		Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)		Riser Length: <u>5</u> feet from <u>5</u> feet to <u>0</u> feet	
Screen Diameter and Material: <u>4" / S.S</u>		Screen Slot Size: <u>0.010</u>		Screen Length: <u>15</u> feet from <u>20</u> feet to <u>5</u> feet	
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary	
Filter Pack Material and Size: <u>20/30 Sand</u>		Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Filter Pack Length: <u>10</u> feet from <u>20</u> feet to <u>4</u> feet	
Filter Pack Seal Material and Size: <u>Fine Sand</u>				Filter Pack Seal Length: <u>0.5</u> feet from <u>4</u> feet to <u>3.5</u> feet	
Surface Seal Material: <u>Cement Grout</u>				Surface Seal Length: <u>1</u> feet from <u>3.5</u> feet to <u>2.5</u> feet	

WELL DEVELOPMENT DATA			
Well Development Date:		Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)	
Development Pump Type (check): <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)		Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):		Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development:		Water Appearance (color and odor) At End of Development:	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: <u>SVE-410</u>	Site Name: <u>Lafarge Road Marking</u>			Well Install Date(s): <u>6/4/13</u>	
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: <u>Hollow Stem Auger</u>	
If AG, list feet of riser above land surface:				Surface Casing Install Method: <u>NA</u>	
Borehole Depth (feet): <u>20</u>	Well Depth (feet): <u>20</u>	Borehole Diameter (inches): <u>10</u>	Manhole Diameter (inches): <u>10</u>	Well Pad Size: <u> </u> feet by <u> </u> feet	
Riser Diameter and Material: <u>4" / PVC</u>	Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)			Riser Length: <u>5</u> feet from <u>5</u> feet to <u>0</u> feet	
Screen Diameter and Material: <u>4" / S.S.</u>		Screen Slot Size: <u>0.010</u>		Screen Length: <u>15</u> feet from <u>20</u> feet to <u>5</u> feet	
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
Filter Pack Material and Size: <u>20/30 Sand</u>	Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Filter Pack Length: <u>16</u> feet from <u>20</u> feet to <u>4</u> feet		
Filter Pack Seal Material and Size: <u>Fine Sand</u>		Filter Pack Seal Length: <u>0.5</u> feet from <u>4</u> feet to <u>3.5</u> feet			
Surface Seal Material: <u>Cement Grout</u>		Surface Seal Length: <u>1</u> feet from <u>3.5</u> feet to <u>2.5</u> feet			

WELL DEVELOPMENT DATA			
Well Development Date:		Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)	
Development Pump Type (check): <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)		Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):		Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development:		Water Appearance (color and odor) At End of Development:	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: <u>SE-411</u>	Site Name: <u>Lafarge Road Marking</u>			Well Install Date(s): <u>4/17/15</u>	
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: <u>Hollow Stem Auger</u>	
If AG, list feet of riser above land surface:				Surface Casing Install Method: <u>NA</u>	
Borehole Depth (feet): <u>25</u>	Well Depth (feet): <u>25</u>	Borehole Diameter (inches): <u>10</u>	Manhole Diameter (inches): <u>10</u>	Well Pad Size: <u> </u> feet by <u> </u> feet	
Riser Diameter and Material: <u>4" / PVC</u>	Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)			Riser Length: <u>5</u> feet from <u>5</u> feet to <u>0</u> feet	
Screen Diameter and Material: <u>4" / S.S.</u>		Screen Slot Size: <u>0.010</u>		Screen Length: <u>20</u> feet from <u>25</u> feet to <u>5</u> feet	
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
Filter Pack Material and Size: <u>20/30 Sand</u>	Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Filter Pack Length: <u>21</u> feet from <u>25</u> feet to <u>4</u> feet		
Filter Pack Seal Material and Size: <u>Fine Sand</u>			Filter Pack Seal Length: <u>0.5</u> feet from <u>4</u> feet to <u>3.5</u> feet		
Surface Seal Material: <u>Cement Grout</u>		Surface Seal Length: <u>1</u> feet from <u>3.5</u> feet to <u>2.5</u> feet			

WELL DEVELOPMENT DATA			
Well Development Date:		Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)	
Development Pump Type (check): <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)		Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):		Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development:		Water Appearance (color and odor) At End of Development:	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: <u>SUE-412</u>		Site Name: <u>Lafarge Road Marking</u>		Well Install Date(s): <u>6/17/05</u>	
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: <u>Hollow Stem Auger</u>	
If AG, list feet of riser above land surface:				Surface Casing Install Method: <u>NA</u>	
Borehole Depth (feet): <u>25</u>	Well Depth (feet): <u>25</u>	Borehole Diameter (inches): <u>10</u>	Manhole Diameter (inches): <u>10</u>	Well Pad Size: <u> </u> feet by <u> </u> feet	
Riser Diameter and Material: <u>4" PVC</u>	Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)			Riser Length: <u>5</u> feet from <u>5</u> feet to <u>0</u> feet	
Screen Diameter and Material: <u>4" S.S.</u>	Screen Slot Size: <u>0.010</u>			Screen Length: <u>20</u> feet from <u>25</u> feet to <u>5</u> feet	
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
Filter Pack Material and Size: <u>20/30 Sand</u>	Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Filter Pack Length: <u>21</u> feet from <u>25</u> feet to <u>7</u> feet			
Filter Pack Seal Material and Size: <u>Fine Sand</u>	Filter Pack Seal Length: <u>05</u> feet from <u>4</u> feet to <u>3.5</u> feet				
Surface Seal Material: <u>Cement Grout</u>	Surface Seal Length: <u>1</u> feet from <u>3.5</u> feet to <u>2.5</u> feet				

WELL DEVELOPMENT DATA			
Well Development Date:		Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)	
Development Pump Type (check): <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)		Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):		Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development:		Water Appearance (color and odor) At End of Development:	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: <u>SVE -414</u>	Site Name: <u>Lafarge Road Marking</u>			Well Install Date(s): <u>6/14/13</u>	
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: <u>Hollow Stem Auger</u>	
If AG, list feet of riser above land surface:				Surface Casing Install Method: <u>NA</u>	
Borehole Depth (feet): <u>25</u>	Well Depth (feet): <u>25</u>	Borehole Diameter (inches): <u>10</u>	Manhole Diameter (inches): <u>10</u>	Well Pad Size: <u> </u> feet by <u> </u> feet	
Riser Diameter and Material: <u>4" / PVC</u>	Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)			Riser Length: <u>5</u> feet from <u>5</u> feet to <u>0</u> feet	
Screen Diameter and Material: <u>4" / S.S.</u>		Screen Slot Size: <u>0.010</u>		Screen Length: <u>20</u> feet from <u>25</u> feet to <u>5</u> feet	
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
Filter Pack Material and Size: <u>20/30 Sand</u>	Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Filter Pack Length: <u>21</u> feet from <u>25</u> feet to <u>4</u> feet		
Filter Pack Seal Material and Size: <u>Fin. Sand</u>		Filter Pack Seal Length: <u>0.5</u> feet from <u>4</u> feet to <u>3.5</u> feet			
Surface Seal Material: <u>Cement Grout</u>		Surface Seal Length: <u>1</u> feet from <u>3.5</u> feet to <u>2.5</u> feet			

WELL DEVELOPMENT DATA			
Well Development Date:		Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)	
Development Pump Type (check): <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)		Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):		Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development:		Water Appearance (color and odor) At End of Development:	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: <u>SVE-415</u>	Site Name: <u>Lafarge Road Marking</u>			Well Install Date(s): <u>6/4/13</u>	
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: <u>Hollow Stem Auger</u>	
If AG, list feet of riser above land surface:				Surface Casing Install Method: <u>NA</u>	
Borehole Depth (feet): <u>25</u>	Well Depth (feet): <u>25</u>	Borehole Diameter (inches): <u>10</u>	Manhole Diameter (inches): <u>10</u>	Well Pad Size: _____ feet by _____ feet	
Riser Diameter and Material: <u>4" PVC</u>	Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)			Riser Length: <u>5</u> feet from <u>5</u> feet to <u>0</u> feet	
Screen Diameter and Material: <u>4" / S.S.</u>	Screen Slot Size: <u>0.010</u>			Screen Length: <u>20</u> feet from <u>25</u> feet to <u>5</u> feet	
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
Filter Pack Material and Size: <u>20/30 Sand</u>	Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			Filter Pack Length: <u>21</u> feet from <u>25</u> feet to <u>4</u> feet	
Filter Pack Seal Material and Size: <u>Fine Sand</u>				Filter Pack Seal Length: <u>0.5</u> feet from <u>4</u> feet to <u>3.5</u> feet	
Surface Seal Material: <u>Cement Grout</u>				Surface Seal Length: <u>1</u> feet from <u>3.5</u> feet to <u>2.5</u> feet	

WELL DEVELOPMENT DATA			
Well Development Date:	Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)		
Development Pump Type (check): <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)	<input type="checkbox"/> Centrifugal <input type="checkbox"/> Peristaltic	Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):	Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No	
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development:		Water Appearance (color and odor) At End of Development:	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: <u>SVI-416</u>	Site Name: <u>Lafarge Road Marking</u>			Well Install Date(s): <u>6/4/13</u>	
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: <u>Hollow Stem Auger</u>	
If AG, list feet of riser above land surface:				Surface Casing Install Method: <u>NA</u>	
Borehole Depth (feet): <u>25</u>	Well Depth (feet): <u>25</u>	Borehole Diameter (inches): <u>10</u>	Manhole Diameter (inches): <u>10</u>	Well Pad Size: <u> </u> feet by <u> </u> feet	
Riser Diameter and Material: <u>4" / PVC</u>	Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)			Riser Length: <u>5</u> feet from <u>5</u> feet to <u>0</u> feet	
Screen Diameter and Material: <u>4" / S.S.</u>		Screen Slot Size: <u>0010</u>		Screen Length: <u>20</u> feet from <u>25</u> feet to <u>5</u> feet	
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
Filter Pack Material and Size: <u>20/30 Sand</u>	Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Filter Pack Length: <u>21</u> feet from <u>25</u> feet to <u>4</u> feet			
Filter Pack Seal Material and Size: <u>Fine Sand</u>		Filter Pack Seal Length: <u>0.5</u> feet from <u>4</u> feet to <u>3.5</u> feet			
Surface Seal Material: <u>Cement Grout</u>		Surface Seal Length: <u>1</u> feet from <u>3.5</u> feet to <u>2.5</u> feet			

WELL DEVELOPMENT DATA			
Well Development Date:		Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)	
Development Pump Type (check): <input type="checkbox"/> Centrifugal <input type="checkbox"/> Peristaltic <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)		Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):	Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No	
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development:		Water Appearance (color and odor) At End of Development:	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: SVE-417	Site Name: Lafarge Road Marking			Well Install Date(s): 5/31/13	
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: Hollow Stem Auger	
If AG, list feet of riser above land surface:		Surface Casing Install Method: NA			
Borehole Depth (feet):	Well Depth (feet):	Borehole Diameter (inches):	Manhole Diameter (inches):	Well Pad Size: _____ feet by _____ feet	
Riser Diameter and Material: 4" / pvc	Riser/Screen Connections:	<input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)		Riser Length: 105 feet from 5 feet to 0 feet	
Screen Diameter and Material: 4" / SS		Screen Slot Size: 0.010		Screen Length: 20 feet from 25 feet to 5 feet	
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
Filter Pack Material and Size: 20/30 Sand	Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Filter Pack Length: 21.25 feet from 25 feet to 4 feet		
Filter Pack Seal Material and Size: Fine Sand			Filter Pack Seal Length: 0.5 feet from 4 feet to 3.5 feet		
Surface Seal Material: Cement Grout			Surface Seal Length: 1 feet from 3.5 feet to 2.5 feet		

WELL DEVELOPMENT DATA			
Well Development Date:	Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)		
Development Pump Type (check): <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)	<input type="checkbox"/> Centrifugal <input type="checkbox"/> Peristaltic	Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):	Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No	
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development:		Water Appearance (color and odor) At End of Development:	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: <u>SVE-418</u>	Site Name: <u>Lafarge Road Marking</u>			Well Install Date(s): <u>5/31/13</u>	
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: <u>Hollow Stem Auger</u>	
If AG, list feet of riser above land surface:				Surface Casing Install Method: <u>NA</u>	
Borehole Depth (feet): <u>25</u>	Well Depth (feet): <u>25</u>	Borehole Diameter (inches): <u>10</u>	Manhole Diameter (inches): <u>10</u>	Well Pad Size: <u> </u> feet by <u> </u> feet	
Riser Diameter and Material: <u>4" / PVC</u>	Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-T threaded <input type="checkbox"/> Other (describe)			Riser Length: <u>5</u> feet from <u>5</u> feet to <u>0</u> feet	
Screen Diameter and Material: <u>4" / SS</u>	Screen Slot Size: <u>0.010</u>	Screen Length: <u>20</u> feet from <u>25</u> feet to <u>5</u> feet			
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
Filter Pack Material and Size: <u>20/30 Sand</u>	Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Filter Pack Length: <u>26</u> feet from <u>25</u> feet to <u>4</u> feet		
Filter Pack Seal Material and Size: <u>Fine Sand</u>			Filter Pack Seal Length: <u>0.5</u> feet from <u>4</u> feet to <u>3.5</u> feet		
Surface Seal Material: <u>Cement Grout</u>			Surface Seal Length: <u>1</u> feet from <u>3.5</u> feet to <u>2.5</u> feet		

WELL DEVELOPMENT DATA			
Well Development Date:	Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)		
Development Pump Type (check): <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)	<input type="checkbox"/> Centrifugal <input type="checkbox"/> Peristaltic	Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):	Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No	
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development:		Water Appearance (color and odor) At End of Development:	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: <u>3UE-419</u>	Site Name: <u>Lafarge Road Marking</u>			Well Install Date(s): <u>6/4/13</u>	
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: <u>Hollow Stem Auger</u>	
If AG, list feet of riser above land surface:				Surface Casing Install Method: <u>NA</u>	
Borehole Depth (feet): <u>25</u>	Well Depth (feet): <u>25</u>	Borehole Diameter (inches): <u>10</u>	Manhole Diameter (inches): <u>10</u>	Well Pad Size: <u> </u> feet by <u> </u> feet	
Riser Diameter and Material: <u>4" PVC</u>		Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)	Riser Length: <u>5</u> feet from <u>5</u> feet to <u>0</u> feet		
Screen Diameter and Material: <u>4" S.S.</u>		Screen Slot Size: <u>2010</u>	Screen Length: <u>20</u> feet from <u>25</u> feet to <u>5</u> feet		
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
Filter Pack Material and Size: <u>20/30 Sand</u>	Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Filter Pack Length: <u>21</u> <u>26</u> feet from <u>29</u> feet to <u>4</u> feet		
Filter Pack Seal Material and Size: <u>Fine Sand</u>			Filter Pack Seal Length: <u>05</u> feet from <u>4</u> feet to <u>35</u> feet		
Surface Seal Material: <u>Cement Grout</u>			Surface Seal Length: <u>1</u> feet from <u>35</u> feet to <u>25</u> feet		

WELL DEVELOPMENT DATA			
Well Development Date:		Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)	
Development Pump Type (check): <input type="checkbox"/> Centrifugal <input type="checkbox"/> Peristaltic <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)		Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):		Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development:		Water Appearance (color and odor) At End of Development:	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: <u>SVE-420</u>	Site Name: <u>Lafarge Road Marking</u>			Well Install Date(s): <u>6/3/13</u>	
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: <u>Hollow Stem Auger</u>	
If AG, list feet of riser above land surface:				Surface Casing Install Method: <u>NA</u>	
Borehole Depth (feet): <u>325</u>	Well Depth (feet): <u>25</u>	Borehole Diameter (inches): <u>10</u>	Manhole Diameter (inches): <u>10</u>	Well Pad Size: <u> </u> feet by <u> </u> feet	
Riser Diameter and Material: <u>4" / PVC</u>	Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)			Riser Length: <u>5</u> feet from <u>5</u> feet to <u>0</u> feet	
Screen Diameter and Material: <u>4" / S.S</u>		Screen Slot Size: <u>0.010</u>		Screen Length: <u>20</u> feet from <u>25</u> feet to <u>5</u> feet	
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
Filter Pack Material and Size: <u>20/30 Sand</u>	Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Filter Pack Length: <u>21</u> <u>26</u> feet from <u>25</u> feet to <u>4</u> feet		
Filter Pack Seal Material and Size: <u>Fine Seal</u>		Filter Pack Seal Length: <u>25</u> feet from <u>4</u> feet to <u>35</u> feet			
Surface Seal Material: <u>Cement Grout</u>		Surface Seal Length: <u>1</u> feet from <u>3.5</u> feet to <u>25</u> feet			

WELL DEVELOPMENT DATA			
Well Development Date:		Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)	
Development Pump Type (check): <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)		Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):		Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development:		Water Appearance (color and odor) At End of Development:	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: <u>DBE-109</u> <u>SVE-219</u>	Site Name: Lafarge Road Marking		Well Install Date(s): <u>5/26/13</u> SVE 4/20/13		
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: Hollow Stem Auger	
If AG, list feet of riser above land surface:				Surface Casing Install Method: NA	
Borehole Depth (feet): <u>30</u>	Well Depth (feet): <u>30</u>	Borehole Diameter (inches): <u>10</u>	Manhole Diameter (inches): <u>10</u>	Well Pad Size: _____ feet by _____ feet	
Riser Diameter and Material: <u>4" PVC</u>	Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)			Riser Length: <u>5</u> feet from <u>5</u> feet to <u>0</u> feet	
Screen Diameter and Material: <u>4" / S.S.</u>		Screen Slot Size: <u>0.010</u>		Screen Length: <u>25</u> feet from <u>30</u> feet to <u>5</u> feet	
1 st Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		1 st Surface Casing I.D. (inches):		1 st Surface Casing Length: _____ feet from _____ feet to _____ feet	
2 nd Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		2 nd Surface Casing I.D. (inches):		2 nd Surface Casing Length: _____ feet from _____ feet to _____ feet	
3 rd Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		3 rd Surface Casing I.D. (inches):		3 rd Surface Casing Length: _____ feet from _____ feet to _____ feet	
Filter Pack Material and Size: <u>20/30 Sand</u>	Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Filter Pack Length: <u>26</u> feet from <u>30</u> feet to <u>4</u> feet		
Filter Pack Seal Material and Size: <u>Fine Sand</u>				Filter Pack Seal Length: <u>0.5</u> feet from <u>4</u> feet to <u>3.5</u> feet	
Surface Seal Material: Cement Grout				Surface Seal Length: <u>1</u> feet from <u>3.5</u> feet to <u>2.5</u> feet	

WELL DEVELOPMENT DATA			
Well Development Date:	Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)		
Development Pump Type (check): <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)	<input type="checkbox"/> Centrifugal <input type="checkbox"/> Peristaltic	Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):	Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No	
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development:		Water Appearance (color and odor) At End of Development:	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA				
Well Number: <u>DPE-118</u> AS-202	Site Name: Lafarge Road Marking		Well Install Date(s): <u>4/21/13 5/2/10</u>	
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: Hollow Stem Auger
If AG, list feet of riser above land surface:		Surface Casing Install Method: NA		
Borehole Depth (feet): <u>30</u>	Well Depth (feet): <u>30</u>	Borehole Diameter (inches): <u>10</u>	Manhole Diameter (inches): <u>10</u>	
Well Pad Size: ___ feet by ___ feet		Riser Diameter and Material: <u>4" PVC</u>		
Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)		Riser Length: <u>5</u> feet from <u>5</u> feet to <u>0</u> feet		
Screen Diameter and Material: <u>4" S.S.</u>		Screen Slot Size: <u>0.010</u>		Screen Length: <u>25</u> feet from <u>20</u> feet to <u>5</u> feet
1 st Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		1 st Surface Casing I.D. (inches):		1 st Surface Casing Length: ___ feet from ___ feet to ___ feet
2 nd Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		2 nd Surface Casing I.D. (inches):		2 nd Surface Casing Length: ___ feet from ___ feet to ___ feet
3 rd Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		3 rd Surface Casing I.D. (inches):		3 rd Surface Casing Length: ___ feet from ___ feet to ___ feet
Filter Pack Material and Size: <u>20/30 Sand</u>		Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Filter Pack Length: <u>26</u> feet from <u>30</u> feet to <u>4</u> feet
Filter Pack Seal Material and Size: <u>Fine Sand</u>		Filter Pack Seal Length: <u>0.5</u> feet from <u>4.0</u> feet to <u>3.5</u> feet		
Surface Seal Material: Cement Grout		Surface Seal Length: <u>1</u> feet from <u>3.5</u> feet to <u>2.5</u> feet		

WELL DEVELOPMENT DATA			
Well Development Date:		Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)	
Development Pump Type (check): <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)		Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):		Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development:		Water Appearance (color and odor) At End of Development:	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: <u>WPE-305</u>	Site Name: <u>Lafarge Road Marking</u>			Well Install Date(s): <u>6/24/13</u>	
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: <u>Hollow Stem Auger</u>	
If AG, list feet of riser above land surface:				Surface Casing Install Method: <u>NA</u>	
Borehole Depth (feet): <u>30</u>	Well Depth (feet): <u>30</u>	Borehole Diameter (inches): <u>10</u>	Manhole Diameter (inches): <u>10</u>	Well Pad Size: <u> </u> feet by <u> </u> feet	
Riser Diameter and Material: <u>4" PVC</u>	Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)			Riser Length: <u>5</u> feet from <u>5</u> feet to <u>0</u> feet	
Screen Diameter and Material: <u>4" S.S.</u>	Screen Slot Size: <u>0.010</u>			Screen Length: <u>29</u> feet from <u>30</u> feet to <u>5</u> feet	
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
Filter Pack Material and Size: <u>20/30 Sand</u>	Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Filter Pack Length: <u>26</u> feet from <u>30</u> feet to <u>4</u> feet		
Filter Pack Seal Material and Size: <u>Fine Sand</u>			Filter Pack Seal Length: <u>0.5</u> feet from <u>4</u> feet to <u>3.5</u> feet		
Surface Seal Material: <u>Cement Grout</u>			Surface Seal Length: <u>1</u> feet from <u>3.5</u> feet to <u>2.5</u> feet		

WELL DEVELOPMENT DATA			
Well Development Date:	Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)		
Development Pump Type (check): <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)	<input type="checkbox"/> Centrifugal <input type="checkbox"/> Peristaltic	Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):	Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No	
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development:		Water Appearance (color and odor) At End of Development:	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: DPE-313	Site Name: Lafarge Road Marking			Well Install Date(s): 6/18/13	
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: Hollow Stem Auger	
If AG, list feet of riser above land surface:		Surface Casing Install Method: NA			
Borehole Depth (feet): 50	Well Depth (feet): 30	Borehole Diameter (inches): 10	Manhole Diameter (inches): 10	Well Pad Size: _____ feet by _____ feet	
Riser Diameter and Material: 4" / PVC		Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)		Riser Length: 5 feet from 5 feet to 0 feet	
Screen Diameter and Material: 4" / S.S.		Screen Slot Size: 0-010		Screen Length: 25 feet from 30 feet to 5 feet	
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
Filter Pack Material and Size: 20/30 Sand		Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Filter Pack Length: 20 feet from 30 feet to 4 feet	
Filter Pack Seal Material and Size: Fine Sand		Filter Pack Seal Length: 0.5 feet from 4 feet to 3.5 feet			
Surface Seal Material: Cement Grout		Surface Seal Length: 1 feet from 3.5 feet to 2.5 feet			

WELL DEVELOPMENT DATA			
Well Development Date:		Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)	
Development Pump Type (check): <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)		Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):		Maximum Drawdown of Groundwater During Development (feet):	
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent		Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No	
Total Development Water Removed (gallons):		Development Duration (minutes):	
Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No		Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No	
Water Appearance (color and odor) At Start of Development:		Water Appearance (color and odor) At End of Development:	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: DPE-408		Site Name: Lafarge Road Marking		Well Install Date(s): 6/13/13	
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: Hollow Stem Auger	
If AG, list feet of riser above land surface:				Surface Casing Install Method: NA	
Borehole Depth (feet): 30	Well Depth (feet): 30	Borehole Diameter (inches): 10	Manhole Diameter (inches): 10	Well Pad Size: ___ feet by ___ feet	
Riser Diameter and Material: 4" PVC	Riser/Screen Connections: <input type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)			Riser Length: 17 feet from 5 feet to 0 feet	
Screen Diameter and Material: 4" S.S.	Screen Slot Size: 0.010			Screen Length: 25 feet from 30 feet to 5 feet	
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
<input type="checkbox"/> Permanent <input type="checkbox"/> Temporary					
Filter Pack Material and Size: 20/30 Sand	Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Filter Pack Length: 26 feet from 30 feet to 7 feet			
Filter Pack Seal Material and Size: Fine Sand		Filter Pack Seal Length: 05 feet from 4 feet to 35 feet			
Surface Seal Material: Cement Grout		Surface Seal Length: 1 feet from 3.5 feet to 2.5 feet			

WELL DEVELOPMENT DATA			
Well Development Date:		Well Development Method (check one): <input type="checkbox"/> Surge/P <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)	
Development Pump Type (check): <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)		Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):		Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Pumping Condition (check one): <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development:		Water Appearance (color and odor) At End of Development:	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

M. Myers



Borehole and Well Construction Log

Project Labage EP

Page 1 of 1

Well ID W-34
 Date Begin 4-6-14
 Date End 4-6-14

Contractor/Driller Cascade Drilling
 Rig Type Truss Mount
 Method Sense

Site Location East River, WA
 Total Depth Drilled 62'
 Sample Method/Size _____
 Cutting Disposal Drum

Well Construction Log		Depth (ft)	Spl Run	Class	Borehole Log Description	Fl. Rec.	Blow Count	FIID (ppm)
Time		Boring Dia. <u>6"</u>		Time Begin: <u>1130</u> End: <u>1400</u>				
Begin: <u>1406</u>		7		Silty Clay, Micaceous, Red, low plasticity		7		0.4
End: _____		12		Clayey Silt, Micaceous, Red-brown, unconsolidated		5		0.2
Construction		17		Clayey silt w/ some sand, Brown, Micaceous, w/ some Qtz grains, unconsolidated		6		9.02
Intervals (ft BGS)		22		Sandy Silt, Gray, unconsolidated, micaceous w/ some Qtz grain		5		15.0
Riser: <u>50-10</u>		28		Sandy Silt, Gray, unconsolidated, micaceous w/ some Qtz grains		5		6.98
Screen: <u>60-50</u>		30		Sandy Silt, Gray, unconsolidated, micaceous w/ some Qtz grains, wet		3		0.02
Surf. Seal: <u>46-0</u>		32		Clayey Sandy Silt, Brown, micaceous, wet		2		0.02
Seal: <u>48-46</u>		36		Clayey Sandy Silt, Gray, micaceous w/ some Qtz grains, wet		4		0.02
Filter Pack: <u>60-48</u>		47		Schist w/ Log Amount of Biotite + Qtz Banding, some staining at top @ 3.5' bgs, 4.5' bgs		4		-
Backfill: _____		57		Schist w/ Log Amount of Biotite + Qtz Banding staining @ 5.3' bgs		8		-
Materials		62		Schist w/ Log Amount of Biotite + Qtz Bands staining @ 6.0' bgs		5		-
Riser: <u>Sub 40 PVC</u>								
Screen: <u>0.210 sbr</u>								
Surf. Seal: <u>Grout</u>								
Seal: <u>Bentonite</u>								
Filter Pack: <u>20/30 Filter SI</u>								
Backfill: _____								
Surface Completion								
Protection: <u>NI</u>								
Pad: <u>2x2</u>								
Lock: _____								
Date/Time: _____								
ARCADIS G&M Personnel								
Field Work: <u>MM + DP</u>								
Log Draft: <u>MM</u>								
Symbols								
Grout: [Pattern]								
Bentonite: [Pattern]								
Sand: [Pattern]								
Gravel: [Pattern]								
Backfill: [Pattern]								
Contact: _____								
Implied or Gradational Contact: [Pattern]								

M. Myers



Project Name Lafarge EP

Page 1 of 2

Borehole and Well Construction Log

Project No. _____

Site Location East Point, GA

Well ID MU-35
 Date Begin 4/6/14
 Date End 4/6/14

Contractor/Driller Cascade Drilling
 Rig Type Sonic, Truck Mount
 Method Sonic

Total Depth Drilled 60
 Sample Method/Size _____
 Cutting Disposal Drum

Well Construction Log		Depth (ft)	Sp Run	Class	Borehole Log Description	Fl. Rec.	Blow Count	PID (ppm)
Time		Boring Dia. \rightarrow		Time Begin: <u>0720</u> End: <u>0850</u>				
Setting Well								
Begin: <u>0850</u>								
End: <u>1000</u>								
Construction								
Intervals (ft BGS)								
Riser: <u>0-50</u>								
Screen: <u>50-60</u>								
Surf. Seal: <u>0-46</u>								
Seal: <u>46-48</u>								
Filter Pack: <u>48-60</u>								
Backfill: _____								
Materials								
Riser: <u>Sch 40 PVC</u>								
Screen: <u>10 slot</u>								
Surf. Seal: <u>Grout</u>								
Seal: <u>Bentonite</u>								
Filter Pack: <u>20/30 Filter sil</u>								
Backfill: _____								
Surface Completion								
Protection: <u>NA</u>								
Pad: <u>2x2</u>								
Lock: _____								
Date/Time: _____								
ARCADIS G&M Personnel								
Field Work: <u>DD</u>								
Log Draft: <u>RM</u>								
Symbols								
Grout:								
Bentonite:								
Sand:								
Gravel:								
Backfill: <u>X</u>								
Contact: _____								
Implied or Gradational Contact: _____								
Contact: _____								
		7			Silty Clay, some mica, consolidated, med-Brown	4	0.1	
		12			clayey silt \rightarrow sandy silt, unconsolidated, micaceous, med \rightarrow Brown	5	0.1	
		17			Sandy silt, unconsolidated, micaceous, Brown, some Qtz grains	5	54.4	
		22			Sandy silt, unconsolidated, micaceous, Brown-grey, strong odor, med. grain sand	5	3329	
		27			Sandy silt, consolidated, micaceous, grey, strong odor, fine grain sand, wet	5	2457	
		30			Sandy silt, micaceous, grey, wet	5	25.1	
		33			Silty-clay, low plasticity, micaceous, Brown-grey, wet	3	25.1	
		37			Shist, contains biotite + Qtz bands, horizontal striations	4	-	
		42			Shist, large amount of biotite w/ Qtz banding	5	-	
		47			Shist, large amounts of biotite w/ Qtz banding	5	-	
		52			Shist, large amounts of biotite w/ Qtz banding	5	-	
		57			Shist, large amounts of biotite w/ Qtz banding	5	-	
		62			Shist, large amounts of biotite w/ Qtz banding	5	-	

M. Myers

Borehole and Well Construction Log

Well ID MW-36
Date Begin 4-6-14
Date End 4-6-14

Contractor/Driller Cascade Drilling
Rig Type Sonic, Truck Mount
Method Sonic

Total Depth Drilled 60
Sample Method/Size _____
Cutting Disposal _____
Drum _____

Well Construction Log		Depth (ft)	Sp. Run	Class	Borehole Log Description	Fl. Rec.	Blow Count	PID (ppm)
Time Setting Well Begin: <u>1425</u> End: <u>1450</u>								
Construction Intervals (ft BGS) Riser: <u>50-0</u> Screen: <u>60-50</u> Surf. Seal: <u>45-0</u> Seal: <u>48-45</u> Filter Pack: <u>60-48</u> Backfill: _____ Materials Riser: <u>Sch. 40</u> <u>PVC</u> Screen: <u>0.010</u> <u>Slot</u> Surf. Seal: <u>Grout</u> Seal: <u>Bentonite</u> Filter Pack: <u>20/30</u> <u>Sand</u> Backfill: _____ Surface Completion Protection: <u>NA</u> Pad: <u>2x2</u> Lock: _____ Date/Time: _____								
		7			Silty clay, low plasticity, Red	7	29	
		12			Clayey Silt, Micaceous, Red-Brown, unconsolidated	5	128	
		17			Sandy Silt, Micaceous, Red-Brown, unconsolidated	5	186	
		22			Clayey Silt, Micaceous, consolidated, Brown - grey, wet	5	513.5	
		27			Clayey Silt, consolidated, wet	5	31.5	
		32			Sandy-clayey-silt, 25-25-50, Micaceous, some Qtz grains, unconsolidated, grey, wet	5	2.4	
		37			Sandy-silt, 75% silt, unconsolidated, Micaceous, wet	5	0.0	
		40			Grout & Gravel, Gravel contains Qtz striations	1		
		71			Schist w/ Mica & Qtz banding, horizontal striations	5		
		77			Schist w/ Mica + Qtz banding horizontal striations	5		
		82			Schist w/ Mica + Qtz banding, horizontal striations	5		

ARCADIS G&M Personnel

Field Work: DD
Log Draft: RM

- Symbols**
- Grout:
 - Bentonite:
 - Sand:
 - Gravel:
 - Backfill: X
 - Contact: _____
 - Implied or Gradational Contact: - - - - -

M. Myer



Borehole and Well Construction Log

Project Lafayette
Project No. _____

Page 1 of 1
Site Location East Point, LA

Well ID MW-512
Date Begin 4/5/14
Date End 4/5/14

Contractor/Driller Cascade Drilling
Rig Type Sonic
Method SONIC

Total Depth Drilled 62
Sample Method/Size _____
Cutting Disposal DCM

Well Construction Log		Borehole Log		Fl. Rec.	Blow Count	FTD (cm)
Depth (ft)	Spl Run	Class	Description			
Time		Time				
Begin: <u>0900</u>		Begin: <u>0730</u>				
End: <u>1100</u>		End: <u>0900</u>				
Construction						
Intervals (ft BGS)						
Riser: <u>0-216</u>						
Screen: <u>97-60</u>						
Surf. Seal: <u>0-02</u>						
Seal: <u>39-02</u>						
Filter Pack: <u>42-60</u>						
Backfill: _____						
Materials						
Riser: <u>S4 40</u>						
Screen: <u>0.150 Std</u>						
Surf. Seal: <u>Grout</u>						
Seal: <u>Kentite</u>						
Filter Pack: <u>20/30</u>						
Backfill: _____						
Surface Completion						
Protection: <u>N/A</u>						
Pad: <u>7x7</u>						
Lock: _____						
Date/Time: _____						
ARCADIS G&M Personnel						
Field Work: _____						
Log Draft: _____						
Symbols						
Grout: [Pattern]						
Benlomite: [Pattern]						
Sand: [Pattern]						
Gravel: [Pattern]						
Backfill: [X]						
Contact: _____						
Implied or Gradational Contact: [Dashed Line]						
Contact: [Solid Line]						
5			Clay Med Plasticity, some silt, consolidated, red	5	138	
7			Silty Clay, Micaceous, low plasticity, unconsolidated, red/brown	2	6745	
12			Silty Clay, Micaceous, unconsolidated, red/brown, low plasticity	5	377	
17			Clayey Silt, Micaceous, unconsolidated, red/brown	5	1102	
22			Clayey Silt, Micaceous, unconsolidated, gray/brown	5	1100	
27			Clayey Silt, Micaceous, unconsolidated, gray	5	616	
32			Clayey Silt, Micaceous, unconsolidated, gray	5	219	
37			Clayey Silt, Micaceous, consolidated, gray/red	5	1.1	
42			Sandy Silt, interposed w/ some gravel wet	6	203	
47			Schist w/ Quartz, horizontal structures	4		
48			Schist w/ Quartz, horizontal structures	1		
53			Quartz Gravel, heterogeneous	5		
57			Schist, w/ Quartz, bedding in some places	4		
62			Schist w/ large Quartz Bedding	5		



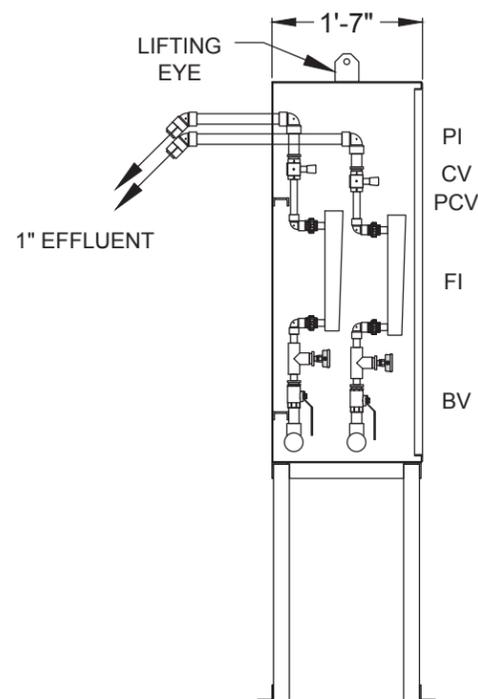
Appendix F

Record Drawings – System
Installation

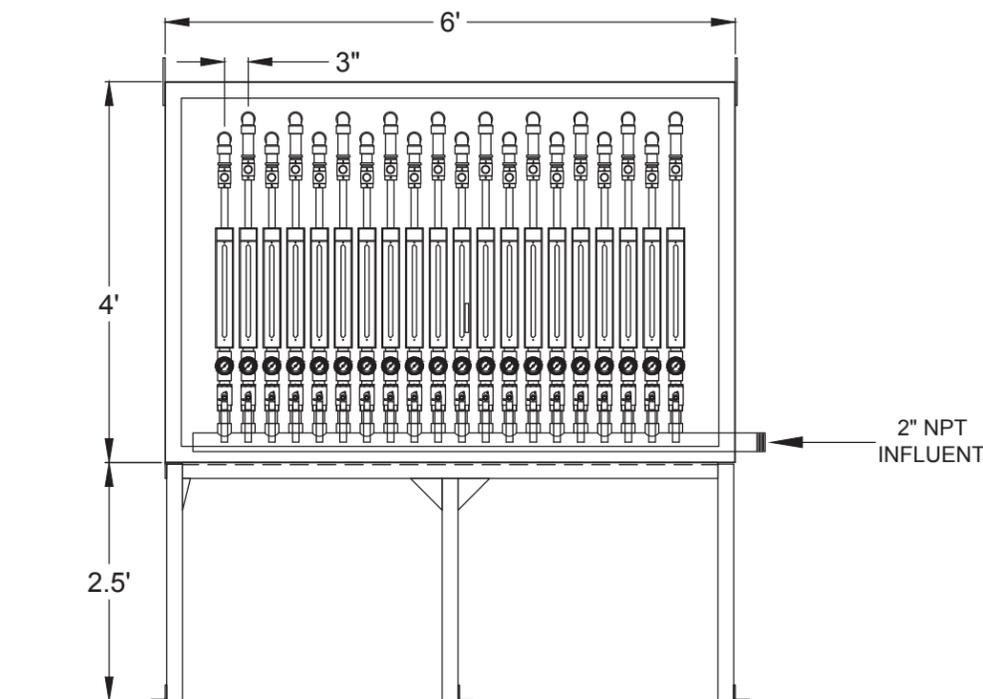
CITY: DIV\GROUP: DR: LD: PIC: PM: LYNON\OFF\REF*
 C:\ENVCAD\Tallahassee\ELACT\HT212516\0006\00002\DWG\SSR\BACH\HT212516R01 RAC.dwg LAYOUT: SHEET 9 - SAVED: 11/5/2014 10:21 AM ACADVER: 18.1S (LMS TECH) PAGES: 18 - PLOTTED: 11/5/2014 10:25 AM BY: BERNDGEN, WENDY
 PROJECTNAME: LAFARGE ROAD MARKING AS-BUILT DRAWINGS

NOTES:

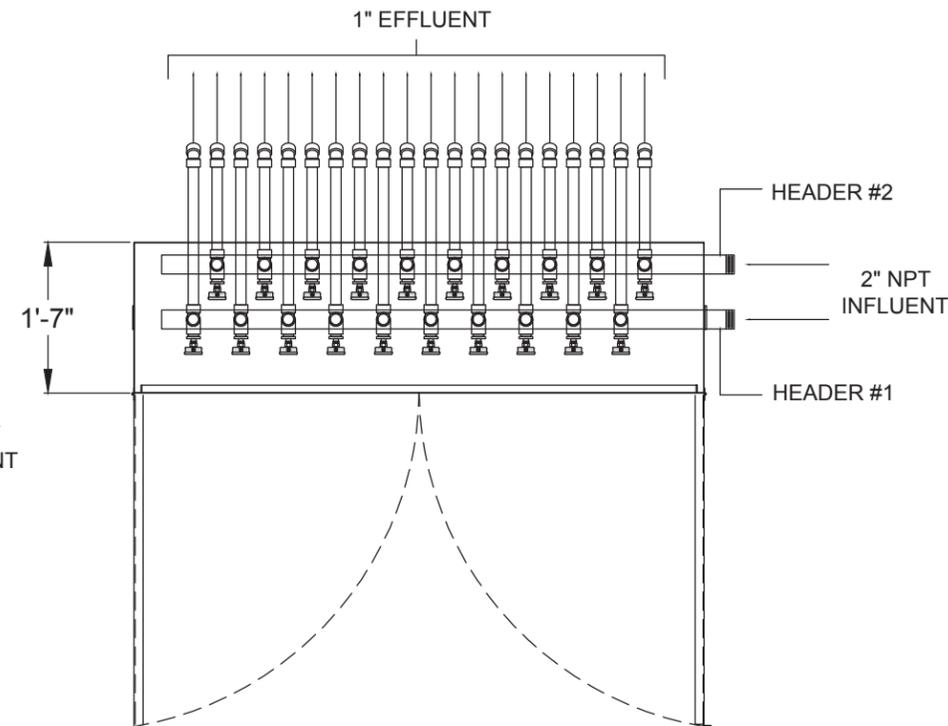
- THE SPARGE MANIFOLD CABINETS WILL BE CONSTRUCTED BY THE SVE/ SPARGE SYSTEM MANUFACTURE, AND DELIVERED WITH THE REMEDIATION SYSTEM.
- CONTRACTOR IS RESPONSIBLE FOR UNLOADING AND MOVING SPARGE MANIFOLD ASSEMBLIES TO APPROPRIATE LOCATIONS.
- (63) SIXTY-TWO INDIVIDUAL SPARGE WELLS.
- EACH INDIVIDUAL SPARGE WELL WILL BE PIPED TO THE SPARGE MANIFOLD USING (1) 1-INCH SCH80 PIPE.
- ALL SPARGE PIPING ABOVE GROUND WILL BE CONSTRUCTED USING GALVANIZED PIPE, OR HIGH PRESSURE RATED HOSE.
- SEE (11) SPARGE WELL HEAD DETAIL.
- CONTRACTOR IS RESPONSIBLE FOR ALL PIPING, PARTS, NEED TO PROPERLY CONNECT AND SECURE PIPING AND HOISING FROM THE WELL LOCATION TO THE MANIFOLD CONNECTIONS.
- CONTRACTOR IS RESPONSIBLE FOR ALL PARTS AND MATERIALS NEEDED TO PROPERLY INSTALL MANIFOLD ASSEMBLIES.
- CONTRACTOR IS RESPONSIBLE FOR PROPERLY DETERMINE METHODS OF INSTALLATION OF SPARGE CABINETS PER STATE AND LOCAL BUILDING CODES.



SIDE VIEW



SPARGE MANIFOLD CABINET ASSEMBLY DETAIL
QTY: 4



SPARGE TOP VIEW

SPARGE MANIFOLDS	
MANIFOLD ID	SPARGE WELLS
ZONE 1	15
ZONE 2	15
ZONE 3	16
ZONE 4	17
TOTAL #	62

Professional Engineer's
KEVIN WARNER, P.E.

P.E.'s Number: PE22508 State: GA Date Signed:

ARCADIS Project No.
 HT212516.0001

Date
 NOVEMBER 2014

ARCADIS
 3522 Thomasville Rd
 Tallahassee, FL 32309



ARCADIS U.S., INC.

LAFARGE ROAD MARKING • EAST POINT GEORGIA
 LAFARGE ROAD MARKING AS-BUILT DRAWINGS

Sparge Manifold Detail

THIS BAR REPRESENTS ONE INCH ON THE ORIGINAL DRAWING.

USE TO VERIFY FIGURE REPRODUCTION SCALE.

No.	Date	Revisions	By	Ckd

THIS DRAWING IS THE PROPERTY OF THE ARCADIS ENTITY IDENTIFIED IN THE TITLE BLOCK AND MAY NOT BE REUSED OR ALTERED IN WHOLE OR IN PART WITHOUT THE EXPRESS WRITTEN PERMISSION OF SAME.

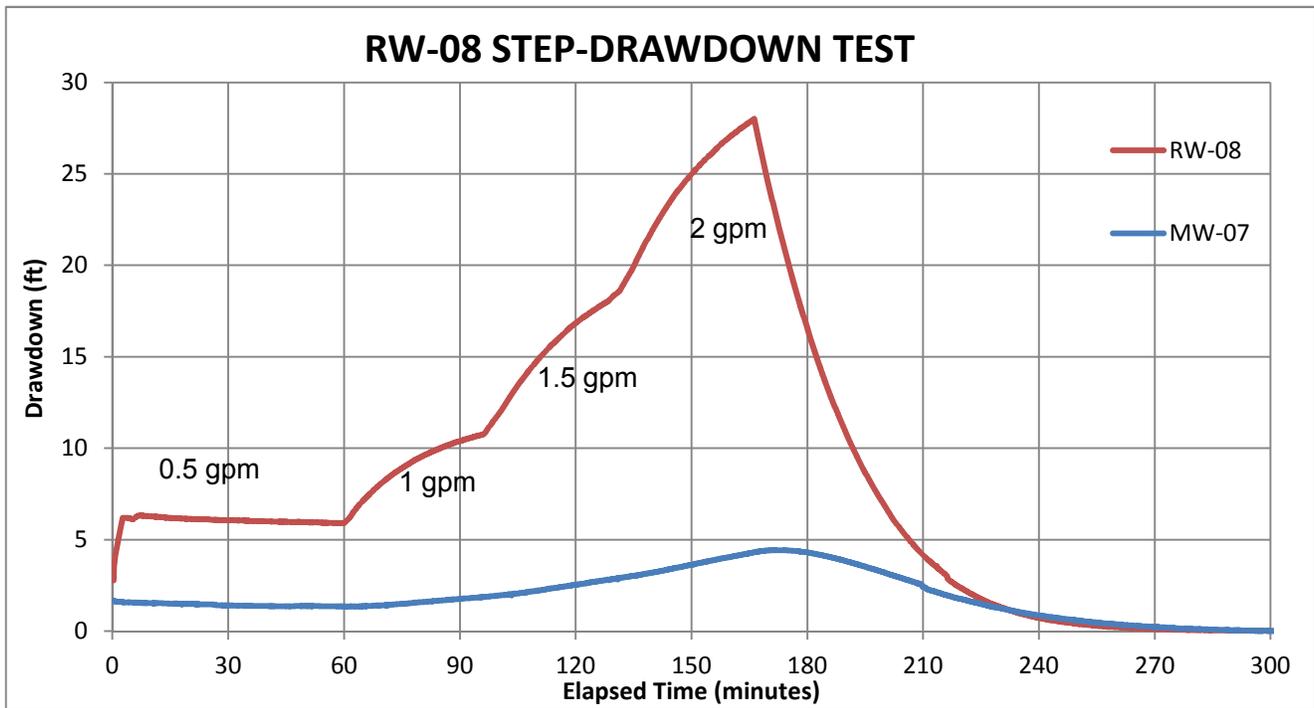
Project Mgr. (RD)
 Designed by (PXC)
 Drawn by (ALH)
 Checked by (KMW)



Appendix G

Recovery Well RW-8 – Pump Test

Figure G1. Drawdown versus Time



Start pumping: 10/7/2013 14:04
 Stop pumping: 10/7/2013 16:50

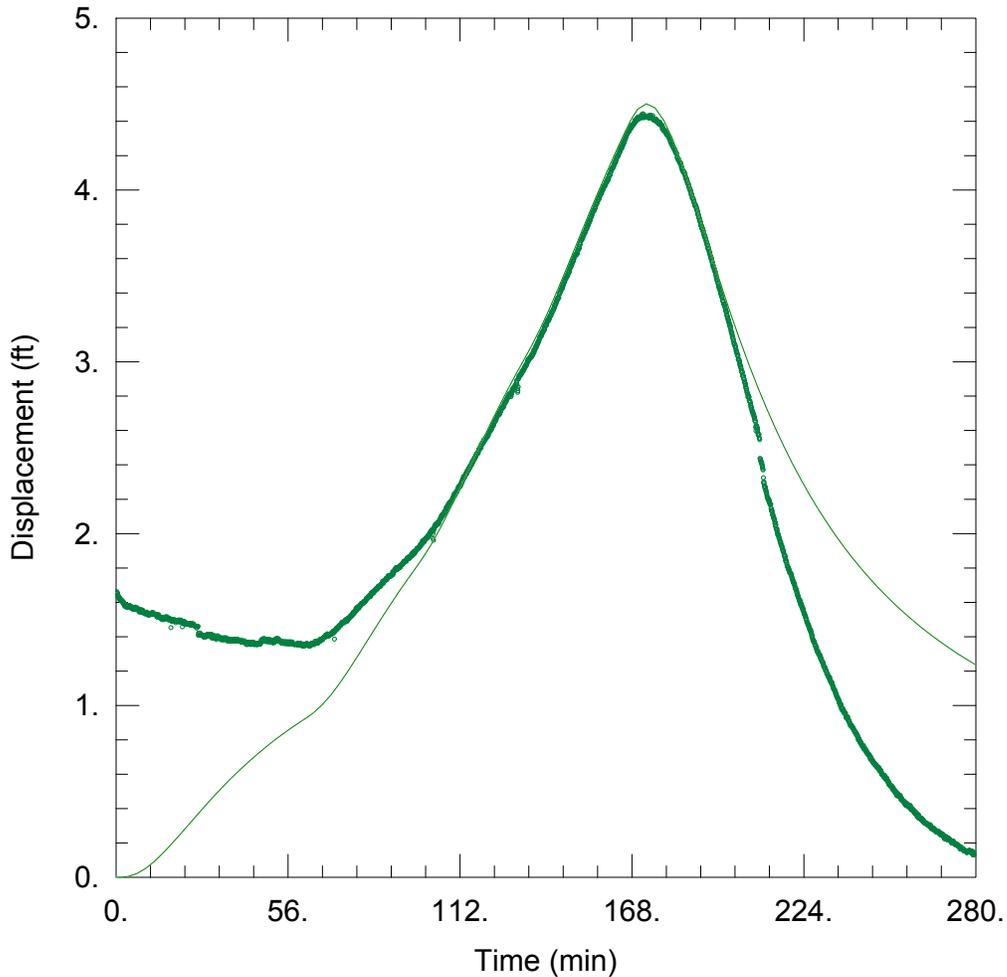
Total pumping time: 166 minutes
 2.8 hours

Step	Rate (gpm)	Drawdown (ft)	Duration (min)	SpC (gpm/ft)
1	0.5	5.91	60.5	0.08
2	1.0	10.70	35.5	NOT STABLE
3	1.5	18.42	35.5	NOT STABLE
4	2.0	27.63	34.5	NOT STABLE

Notes:

Rate steps 2, 3, and 4 failed to reach stabilization as defined by less than 0.02 feet of change in water levels for a period of ten minutes. This indicates an inadequate duration for the step or the inability of the well to support the pumping rate.

Figure G2. Dougherty-Babu Solution for Transmissivity and Storativity



WELL TEST ANALYSIS

PROJECT INFORMATION

Company: ARCADIS
 Client: Lafarge
 Location: East Point, GA
 Test Well: RW-8
 Test Date: 8/7/2013

WELL DATA

Pumping Wells			Observation Wells		
Well Name	X (ft)	Y (ft)	Well Name	X (ft)	Y (ft)
RW-08	0	0	• MW-07	0	10.83

SOLUTION

Aquifer Model: Confined

Solution Method: Dougherty-Babu

T = 19. ft²/day

S = 0.0007

Kz/Kr = 1.

Sw = 0.

r(w) = 0.4 ft

r(c) = 0.34 ft



Appendix H

Well Purging and Sample Logs



Groundwater Sampling Form

Well ID MW-31

Weather Sunny Cool

Date: 11/20/17

Project Name/Location Lafarge - East Point, GA

Project No. HT212446.0014

Total Well Depth (ft-BTOC) 35 Screen Interval (ft-BTOC) 25-35

Purge Time: Start: 1630 / 1430 Sampled by: M. Myers

Static Water Level (ft-BTOC) 9.48 Pump Intake (ft-BTOC) 30

End: 1700 Sample Time: 1705

Water Column (ft) 15.52 Purge Method: (circle one) low flow/low volume

Volume Purged (mL or gal) 0.90 Duplicate ID: NR

Casing Volume Multiplier 0.16 Well Volume 4.08

Sample equipment (check one): Teflon Bladder Teflon-lined Tubing Teflon Bailor

Appearance (color/odor) Clear / None

Time	Purge Rate (gpm) or (ml/min)	Volume Purged (gal or mL)	Pump Intake (ft-BTOC)	Depth to Water (ft-BTOC)	Temperature (°C)	Specific Conductivity (µS/cm)	pH	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Purged Dry (yes or no) (enter depth purged dry)
<u>1640</u>	<u>0.03</u>	<u>0.30</u>	<u>30</u>	<u>9.54</u>	<u>20.68</u>	<u>247</u>	<u>6.42</u>	<u>1.14</u>	<u>10.0</u>	<u>10.0</u>	<u>N</u>
<u>1645</u>	<u>0.03</u>	<u>0.45</u>	<u>30</u>	<u>9.54</u>	<u>20.05</u>	<u>249</u>	<u>6.35</u>	<u>1.18</u>	<u>11.2</u>	<u>7.92</u>	<u>N</u>
<u>1650</u>	<u>0.03</u>	<u>0.60</u>	<u>30</u>	<u>9.54</u>	<u>20.31</u>	<u>247</u>	<u>6.28</u>	<u>1.07</u>	<u>12.8</u>	<u>7.40</u>	<u>N</u>
<u>1655</u>	<u>0.03</u>	<u>0.75</u>	<u>30</u>	<u>9.54</u>	<u>20.64</u>	<u>246</u>	<u>6.27</u>	<u>0.76</u>	<u>9.0</u>	<u>6.99</u>	<u>N</u>
<u>1700</u>	<u>0.03</u>	<u>0.90</u>	<u>30</u>	<u>9.54</u>	<u>20.76</u>	<u>246</u>	<u>6.28</u>	<u>0.71</u>	<u>6.6</u>	<u>6.56</u>	<u>N</u>
<u>11/20/17</u>											

Constituents Sampled

Check Boxes as appropriate:

VOCs (8260B)

Other (list): total Metals (Lead)

Other Notes:

Primary stabilization parameters:

pH ± 0.1 SU; Specific Conductance

Turbidity: <10 NTU (or within 10% if <10 NTU not achievable)

Drawdown target: < 0.3 feet below static

Secondary water quality parameter: Dissolved Oxygen ±0.2 mg/L

Well Casing Volume Multipliers

Gallons/Foot	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	

Well Information

Repairs Needed (List all): _____

Well Locked at Arrival: Yes / No

Well Locked at Departure: Yes / No

Well Completion: Flush Mount / Stick Up



Groundwater Sampling Form

Well ID MW-29

Weather Sunny, Cold

Date: 11/20/14

Project Name/Location Lafarge - East Point, GA

Project No. HT212446.0014

Total Well Depth (ft-BTOC) 455 Screen Interval (ft-BTOC) 435 - 455

Purge Time: Start: 0935 / 0925 AM Sampled by: M. Myers

Static Water Level (ft-BTOC) 6.25 Pump Intake (ft-BTOC) 44.5

End: 1005 Sample Time: 1015

Water Column (ft) 39.25 Purge Method: (circle one) low flow/low volume volume purge

Volume Purged (mL or gal) 105 Duplicate ID: NA

Casing Volume Multiplier 0.16 Well Volume 6.28

Sample equipment (check one): Teflon Bladder Teflon-lined Tubing Teflon Bailor

Appearance (color/odor) Clear / None

Time	Purge Rate (gpm) or (ml/min)	Volume Purged (gal or mL)	Pump Intake (ft-BTOC)	Depth to Water (ft-BTOC)	Temperature (°C)	Specific Conductivity (µS/cm)	pH	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Purged Dry (yes or no) (enter depth purged dry)
0940	0.03	0.30	44.5	6.28	18.13	170	5.55	1.51	211.0	0.68	N
0945	0.03	0.45	44.5	6.28	17.91	169	5.55	1.48	210.2	0.65	N
0950	0.03	0.60	44.5	6.28	17.57	167	5.50	1.57	212.5	0.56	N
0955	0.03	0.75	44.5	6.29	17.40	165	5.44	1.49	215.2	0.41	N
1000	0.03	0.90	44.5	6.29	17.15	163	5.43	1.40	210.0	0.40	N
1005	0.03	1.05	44.5	6.30	17.17	163	5.45	1.38	218.1	0.45	N
<div style="position: absolute; transform: rotate(-45deg); opacity: 0.5; font-size: 2em;"> MW 11/20/14 </div>											

Constituents Sampled

Check Boxes as appropriate:

VOCs (8260B) Other (list):

Other Notes:

Primary stabilization parameters:
 pH ± 0.1 SU; Specific Conductance
 Turbidity: <10 NTU (or within 10% if <10 NTU not achievable)
 Drawdown target: < 0.3 feet below static
 Secondary water quality parameter: Dissolved Oxygen ±0.2 mg/L

Well Casing Volume Multipliers

Gallons/Foot 1" = 0.04 1.25" = 0.06 1.5" = 0.09 2" = 0.16 2.5" = 0.26 3" = 0.37 3.5" = 0.50 4" = 0.65 6" = 1.47

Well Information

Repairs Needed (List all): _____

Well Completion: Flush Mount / Stick Up

Well Locked at Arrival: Yes / No

Well Locked at Departure: Yes / No



Groundwater Sampling Form

Well ID ML-28

Weather Sunny, Cold

Date: 11/20/14

Project Name/Location Lafarge - East Point, GA

Project No. HT212446.0014

Total Well Depth (ft-BTOC) 23.5 Screen Interval (ft-BTOC) 13.5-23.5

Purge Time: Start: 1020 Sampled by: M. Myers

Static Water Level (ft-BTOC) 6.92 Pump Intake (ft-BTOC) 18.5

End: 1050 Sample Time: 1055

Water Column (ft) 16.58 Purge Method: (circle one) low flow/low volume

Volume Purged (mL of gal) 0.90 Duplicate ID: NA

Casing Volume Multiplier 0.16 Well Volume 2.65

Sample equipment (check one): Teflon Bladder Teflon-lined Tubing Teflon Bailor

Appearance (color/odor) Clear / None

Time	Purge Rate (gpm) or (ml/min)	Volume Purged (gal or mL)	Pump Intake (ft-BTOC)	Depth to Water (ft-BTOC)	Temperature (°C)	Specific Conductivity (µS/cm)	pH	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Purged Dry (yes or no) (enter depth purged dry)
1030	0.03	0.30	18.5	7.24	18.60	147	5.16	1.37	216.2	3.67	N
1035	0.03	0.45	18.5	7.18	18.45	148	5.13	1.14	221.7	3.81	N
1040	0.03	0.60	18.5	7.18	18.40	148	5.10	0.98	228.2	3.77	N
1045	0.03	0.75	18.5	7.18	18.41	148	5.13	0.90	227.8	2.97	N
1050	0.03	0.90	18.5	7.18	18.41	147	5.09	0.86	230.9	2.54	N
M.M. 11/20/14											

Constituents Sampled

Check Boxes as appropriate:

- VOCs (8260B)
- Other (list):

Other Notes:

Primary stabilization parameters:
 pH ± 0.1 SU; Specific Conductance
 Turbidity: <10 NTU (or within 10% if <10 NTU not achievable)
 Drawdown target: < 0.3 feet below static
 Secondary water quality parameter: Dissolved Oxygen ±0.2 mg/L

Well Casing Volume Multipliers

Gallons/Foot	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	

Well Information

Repairs Needed (List all):	Well Locked at Arrival: <input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No
Well Completion: <u>Flush Mount</u> / <u>Stick Up</u>	Well Locked at Departure: <input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No



Groundwater Sampling Form

Well ID ML-27

Weather Sunny, Cool

Date: 11/20/14

Project Name/Location Lafarge - East Point, GA

Project No. HT212446.0014

Total Well Depth (ft-BTOC) 48.2 Screen Interval (ft-BTOC) 46.2 - 48.2

Purge Time: Start: 1215 Sampled by: M. Myers

Static Water Level (ft-BTOC) 12.17 Pump Intake (ft-BTOC) 47.2

End: 1245 Sample Time: 1250

Water Column (ft) 36.06 Purge Method: (circle one) low flow/low volume volume purge

Volume Purged (mL or gal) 0.90 Duplicate ID: NA

Well Volume 5.76 Sample equipment (check one): Teflon Bladder Teflon-lined Tubing Teflon Bailor

Appearance (color/odor) Clear / None

Time	Purge Rate (gpm) or (ml/min)	Volume Purged (gal) or mL	Pump Intake (ft-BTOC)	Depth to Water (ft-BTOC)	Temperature (°C)	Specific Conductivity (µS/cm)	pH	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Purged Dry (yes or no) (enter depth purged dry)
1215	0.03	0.30	47.2	12.54	21.10	190	5.77	4.36	158.7	2.70	N
1230	0.03	0.45	47.2	12.56	21.25	189	5.74	2.23	157.5	1.65	N
1235	0.03	0.60	47.2	12.56	21.56	189	5.70	1.72	156.7	2.28	N
1240	0.03	0.75	47.2	12.56	21.58	189	5.70	1.47	153.8	2.59	N
1245	0.03	0.90	47.2	12.56	21.58	187	5.67	1.10	145.7	2.32	N
MM 11/20/14											

Constituents Sampled

Check Boxes as appropriate:

VOCs (8260B)

Other (list):

Other Notes:

Primary stabilization parameters:

pH ± 0.1 SU; Specific Conductance

Turbidity: <10 NTU (or within 10% if <10 NTU not achievable)

Drawdown target: < 0.3 feet below static

Secondary water quality parameter: Dissolved Oxygen ±0.2 mg/L

Well Casing Volume Multipliers

Gallons/Foot	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	

Well Information

Repairs Needed (List all):

Well Locked at Arrival: Yes / No

Well Locked at Departure: Yes / No

Well Completion: Flush Mount / Stick Up



Groundwater Sampling Form

Well ID MW-216

Weather Sunny, Cool

Date: 11/20/14

Project Name/Location Lafarge - East Point, GA

Project No. HT212446.0014

Total Well

Depth (ft-BTOC) 23.5 Screen Interval (ft-BTOC) 13.5 - 23.5

Purge Time: Start: 1300

Sampled by: M. Myers

Static Water

Level (ft-BTOC) 12.15 Pump Intake (ft-BTOC) 18.5

End: 1330

Sample Time: 1335

Water Column (ft) 11.35

Purge Method: (circle one)

low flow/low volume
volume purge

Volume Purged (mL or gal) 0.90

Duplicate ID: NA

Casing Volume Multiplier 0.16

Well Volume 1.82

Sample equipment (check one):

- Teflon Bladder
- Teflon-lined Tubing
- Teflon Bailor

Appearance (color/odor)

Clear / None

Time	Purge Rate (gpm) or (ml/min)	Volume Purged (gal or mL)	Pump Intake (ft-BTOC)	Depth to Water (ft-BTOC)	Temperature (°C)	Specific Conductivity (µS/cm)	pH	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Purged Dry (yes or no) (enter depth purged dry)
1310	0.03	0.30	18.5	12.24	22.69	142	5.54	6.64	141.1	0.59	N
1315	0.03	0.45	18.5	12.24	22.77	139	5.48	3.53	142.0	0.36	N
1320	0.03	0.60	18.5	12.25	22.31	137	5.43	3.55	145.9	0.24	N
1325	0.03	0.75	18.5	12.25	22.29	136	5.42	3.48	147.2	0.35	N
1330	0.03	0.90	18.5	12.25	22.06	136	5.43	3.51	147.5	0.29	N
<div style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%); opacity: 0.5;"> <p>MW 11/20/14</p> </div>											

Constituents Sampled

Check Boxes as appropriate:

- VOCs (8260B)
- Other (list):

Other Notes:

Primary stabilization parameters:
 pH ± 0.1 SU; Specific Conductance
 Turbidity: <10 NTU (or within 10% if <10 NTU not achievable)
 Drawdown target: < 0.3 feet below static
 Secondary water quality parameter: Dissolved Oxygen ±0.2 mg/L

Well Casing Volume Multipliers

Gallons/Foot	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	

Well Information

Repairs Needed (List all):	Well Locked at Arrival: <u>Yes</u> / No
Well Completion: <u>Flush Mount</u> <u>Stick Up</u>	Well Locked at Departure: <u>Yes</u> / No



Groundwater Sampling Form

Well ID MW-12

Weather Sunny, Cold

Date: 11/19/14

Project Name/Location Lafarge - East Point, GA

Project No. HT212446.0014

Total Well Depth (ft-BTOC) 79.2 Screen Interval (ft-BTOC) 59-78

Purge Time: Start: 1520 Sampled by: M. Myers

Static Water Level (ft-BTOC) 19.02 Pump Intake (ft-BTOC) 69

End: 1550

Sample Time: 1555

Water Column (ft) 60.18 Purge Method: (circle one) low flow/low volume

low flow/low volume
volume purge

Volume Purged (mL or gal) 0.90

Duplicate ID: NA

Casing Volume Multiplier 0.16

Well Volume 9.63 Sample equipment (check one): Teflon Bladder Teflon-lined Tubing Teflon Bailor

Appearance (color/odor) Clear / None

Time	Purge Rate (gpm) or (ml/min)	Volume Purged (gal or mL)	Pump Intake (ft-BTOC)	Depth to Water (ft-BTOC)	Temperature (°C)	Specific Conductivity (µS/cm)	pH	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Purged Dry (yes or no) (enter depth purged dry)
1530	0.03	0.30	69	19.31	16.85	169	5.26	3.08	232.3	0.88	N
1535	0.03	0.45	69	19.36	16.29	153	5.17	1.95	226.1	1.32	N
1540	0.03	0.60	69	19.28	16.22	149	5.08	1.45	243.4	0.46	N
1545	0.03	0.75	69	19.28	16.29	148	5.05	1.29	248.1	0.48	N
1550	0.03	0.90	69	19.27	16.33	147	5.06	1.22	252.9	0.50	N
MM 11/19/14											

Constituents Sampled

Check Boxes as appropriate:

VOCs (8260B)

Other (list):

Other Notes:

Primary stabilization parameters:

pH ± 0.1 SU; Specific Conductance

Turbidity: <10 NTU (or within 10% if <10 NTU not achievable)

Drawdown target: < 0.3 feet below static

Secondary water quality parameter: Dissolved Oxygen ±0.2 mg/L

Well Casing Volume Multipliers

Gallons/Foot	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	

Well Information

Repairs Needed (List all):

Well Locked at Arrival: Yes / No

Well Locked at Departure: Yes / No

Well Completion: Flush Mount / Stick Up



Groundwater Sampling Form

Well ID MW-122

Weather Sunny, Cold

Date: 11/19/14

Project Name/Location Lafarge - East Point, GA

Project No. HT212446.0014

Total Well Depth (ft-BTOC) 28 Screen Interval (ft-BTOC) 8 - 27.0

Purge Time: Start: 1445 Sampled by: M. Myers

Static Water Level (ft-BTOC) 10.17 Pump Intake (ft-BTOC) 24

End: 1515 Sample Time: 1520

Water Column (ft) 7.88 Purge Method: (circle one) low flow/low volume

Volume Purged (mL or gal) 0.90 Duplicate ID: NA

Casing Volume Multiplier 0.16 Well Volume 1.26

Sample equipment (check one): Teflon Bladder Teflon-lined Tubing Teflon Bailor

Appearance (color/odor) Clear / None

Time	Purge Rate (gpm) or (ml/min)	Volume Purged (gal or mL)	Pump Intake (ft-BTOC)	Depth to Water (ft-BTOC)	Temperature (°C)	Specific Conductivity (µS/cm)	pH	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Purged Dry (yes or no) (enter depth purged dry)
1455	0.03	0.30	24	20.21	17.83	182	4.87	1.51	225.9	0.27	N
1500	0.03	0.45	24	10.22	18.23	183	5.12	3.66	217.9	0.35	N
1505	0.03	0.60	24	10.22	18.38	183	4.92	0.81	240.4	0.41	N
1510	0.03	0.75	24	10.22	18.59	183	4.89	0.68	263.3	0.28	N
1515	0.03	0.90	24	10.22	18.61	183	4.88	0.59	270.0	0.31	N
MM 11/19/14											

Constituents Sampled

Check Boxes as appropriate:

VOCs (8260B)

Other (list):

Other Notes:

Primary stabilization parameters:

pH ± 0.1 SU; Specific Conductance

Turbidity: <10 NTU (or within 10% if <10 NTU not achievable)

Drawdown target: < 0.3 feet below static

Secondary water quality parameter: Dissolved Oxygen ±0.2 mg/L

Well Casing Volume Multipliers

Gallons/Foot	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	

Well Information

Repairs Needed (List all):

Well Locked at Arrival: Yes / No

Well Locked at Departure: Yes / No

Well Completion: Flush Mount / Stick Up



Groundwater Sampling Form

Well ID MW-23

Weather Cloudy, Windy, Cold

Date: 11/15/14

Project Name/Location Lafarge - East Point, GA

Project No. HT212446.0014

Total Well

Depth (ft-BTOC) 72.68 Screen Interval (ft-BTOC) 60-68.8

Purge Time: Start: 1045

Sampled by: M. Myers

Static Water 26.89

Level (ft-BTOC) 72.82 Pump Intake (ft-BTOC) 65

End: 1115

Sample Time: 1120

Water Column (ft) 44.71

Purge Method: (circle one)

low flow/low volume
volume purge

Volume Purged (mL or gal) 0.90

Duplicate ID: NA

Well Volume 7.95

Sample equipment (check one):

- Teflon Bladder
- Teflon-lined Tubing
- Teflon Bailor

Appearance (color/odor) Clear / None

Time	Purge Rate (gpm) or (ml/min)	Volume Purged (gal or mL)	Pump Intake (ft-BTOC)	Depth to Water (ft-BTOC)	Temperature (°C)	Specific Conductivity (µS/cm)	pH	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Purged Dry (yes or no) (enter depth purged dry)
1055	0.03	0.30	65	27.13	15.09	112	6.81	5.90	126.2	6.20	N
1100	0.03	0.45	65	27.13	14.68	112	5.79	5.94	158.1	6.13	N
1105	0.03	0.60	65	27.13	15.01	112	5.76	5.42	211.2	6.24	N
1110	0.03	0.75	65	27.13	15.02	111	5.71	5.32	221.2	5.98	N
1115	0.03	0.90	65	27.13	15.04	110	5.74	5.21	224.8	5.91	N
<div style="position: absolute; top: 50px; left: 300px; transform: rotate(-30deg);"> <p>MW 11/15/14</p> </div>											

Constituents Sampled

Check Boxes as appropriate:

VOCs (8260B)

Other (list):

Other Notes:

Primary stabilization parameters:

pH ± 0.1 SU; Specific Conductance

Turbidity: <10 NTU (or within 10% if <10 NTU not achievable)

Drawdown target: < 0.3 feet below static

Secondary water quality parameter: Dissolved Oxygen ±0.2 mg/L

Well Casing Volume Multipliers

Gallons/Foot	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	

Well Information

Repairs Needed (List all):

Well Locked at Arrival: Yes / No

Well Locked at Departure: Yes / No

Well Completion: Flush Mount / Stick Up



Groundwater Sampling Form

Page 1 of 1

Well ID MW-24

Weather Sunny, Cold

Date: 11/9/14

Project Name/Location Lafarge - East Point, GA

Project No. HT212446.0014

Total Well Depth (ft-BTOC) 55.31 Screen Interval (ft-BTOC) 24-58.5 Purge Time: Start: 0930 Sampled by: M. Myers

Static Water Level (ft-BTOC) 27.17 Pump Intake (ft-BTOC) 38.30 End: 1000 Sample Time: 1010

Water Column (ft) 28.14 Purge Method: (circle one) low flow/low volume volume purge Volume Purged (mL or gal) 0.90 Duplicate ID: 114

Casing Volume Multiplier 0.16 Well Volume 4.50 Sample equipment (check one): Teflon Bladder Teflon-lined Tubing Teflon Bailor Appearance (color/odor) Clear / None

Table with 12 columns: Time, Purge Rate (gpm or ml/min), Volume Purged (gal or mL), Pump Intake (ft-BTOC), Depth to Water (ft-BTOC), Temperature (°C), Specific Conductivity (µS/cm), pH, Dissolved Oxygen (mg/L), ORP (mV), Turbidity (NTU), Purged Dry (yes or no) (enter depth purged dry). Rows contain data for times 0940, 0945, 0950, 0955, and 1000.

Constituents Sampled

Check Boxes as appropriate:
[] VOCs (8260B)
[] Other (list):

Other Notes:
Primary stabilization parameters:
pH ± 0.1 SU; Specific Conductance
Turbidity: <10 NTU (or within 10% if <10 NTU not achievable)
Drawdown target: < 0.3 feet below static
Secondary water quality parameter: Dissolved Oxygen ±0.2 mg/L

Well Casing Volume Multipliers table with columns for Gallons/Foot and multipliers for 1", 1.25", 1.5", 2", 2.5", 3", 3.5", 4", 6" diameters.

Well Information

Repairs Needed (List all):
Well Completion: Flush Mount / Stick Up
Well Locked at Arrival: Yes / No
Well Locked at Departure: Yes / No



Groundwater Sampling Form

Well ID MW-15

Weather Sunny, Cold

Date: 11/19/14

Project Name/Location Lafarge - East Point, GA

Project No. HT212446.0014

Total Well Depth (ft-BTOC) 37 Screen Interval (ft-BTOC) 18-36.5 Purge Time: Start 1030 Sampled by: M. Myers

Static Water Level (ft-BTOC) 20.58 Pump Intake (ft-BTOC) 32 28 End: 1100 Sample Time: 1105

Water Column (ft) 16.42 Purge Method: (circle one) low flow/low volume Volume Purged (mL or gal) 0.90 Duplicate ID: NA

Casing Volume Multiplier 0.10 Well Volume 2.65 Sample equipment (check one): Teflon Bladder Teflon-lined Tubing Teflon Bailor Appearance (color/odor) Clear / none

Time	Purge Rate (gpm) or (ml/min)	Volume Purged (gal or mL)	Pump Intake (ft-BTOC)	Depth to Water (ft-BTOC)	Temperature (°C)	Specific Conductivity (µS/cm)	pH	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Purged Dry (yes or no) (enter depth purged dry)
1040	0.03	0.30	<u>32 28</u>	20.80	14.61	172	5.36	2.29	296.0	6.07	N
1045	0.03	0.45	<u>32 28</u>	20.80	16.10	171	5.34	1.73	185.7	7.06	N
1050	0.03	0.60	<u>32 28</u>	20.80	17.62	172	5.41	1.21	290.5	5.17	N
1055	0.03	0.75	<u>32 28</u>	20.80	17.58	172	5.43	1.17	268.3	4.99	N
1100	0.03	0.90	<u>32 28</u>	20.80	17.30	171	5.42	1.05	231.5	4.78	N
<i>MM 11/19/14</i>											

Constituents Sampled

Check Boxes as appropriate:

VOCs (8260B)

Other (list):

Other Notes:

Primary stabilization parameters:

pH ± 0.1 SU; Specific Conductance

Turbidity: <10 NTU (or within 10% if <10 NTU not achievable)

Drawdown target: < 0.3 feet below static

Secondary water quality parameter: Dissolved Oxygen ±0.2 mg/L

Well Casing Volume Multipliers

Gallons/Foot	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	

Well Information

Repairs Needed (List all):

Well Locked at Arrival: Yes / No

Well Locked at Departure: Yes / No

Well Completion: Flush Mount / Stick Up



Groundwater Sampling Form

Well ID MW-16

Weather Sunny, Cold

Date: 11/19/14

Project Name/Location Lafarge - East Point, GA

Project No. HT212446.0014

Total Well Depth (ft.-BTOC) 56 Screen Interval (ft.-BTOC) 45.5 - 55

Purge Time: Start: 1130 Sampled by: M. Myers

Static Water Level (ft.-BTOC) 12.81 Pump Intake (ft.-BTOC) 50

End: 1200 Sample Time: 1205

Water Column (ft) 35.19 Purge Method: (circle one) low flow/low volume

Volume Purged (mL or gal) 0.90 Duplicate ID: NA

Casing Volume Multiplier 0.16 Well Volume 5.63

Sample equipment (check one): Teflon Bladder Teflon-lined Tubing Teflon Bailer

Appearance (color/odor) Clear / None

Time	Purge Rate (gpm) or (ml/min)	Volume Purged (gal or mL)	Pump Intake (ft.-BTOC)	Depth to Water (ft.-BTOC)	Temperature (°C)	Specific Conductivity (µS/cm)	pH	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Purged Dry (yes or no) (enter depth purged dry)
1140	0.03	0.30	50	20.84	19.17	177	5.89	3.43	198.5	3.57	N
1145	0.03	0.45	50	20.84	19.23	179	5.85	2.96	203.0	3.14	N
1150	0.03	0.60	50	20.84	19.19	181	5.75	2.35	213.5	3.57	N
1155	0.03	0.75	50	20.84	19.19	184	5.76	1.49	219.7	2.82	N
1200	0.03	0.90	50	20.84	19.18	184	5.73	1.60	217.3	3.87	N
<div style="position: absolute; top: 50px; left: 200px; transform: rotate(-45deg); opacity: 0.5;"> <p>11/18/14</p> </div>											

Constituents Sampled

Check Boxes as appropriate:

VOCs (8260B)

Other (list):

Other Notes:

Primary stabilization parameters:

pH ± 0.1 SU; Specific Conductance

Turbidity: <10 NTU (or within 10% if <10 NTU not achievable)

Drawdown target: < 0.3 feet below static

Secondary water quality parameter: Dissolved Oxygen ±0.2 mg/L

Well Casing Volume Multipliers

Gallons/Foot	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	

Well Information

Repairs Needed (List all):

Well Locked at Arrival: Yes / No

Well Locked at Departure: Yes / No

Well Completion: Flush Mount / Stick Up



Groundwater Sampling Form

Well ID MW-13

Weather Sunny, Cool

Date: 11/19/14

Project Name/Location Lafarge - East Point, GA

Project No. HT212446.0014

Total Well Depth (ft-BTOC) 97 Screen Interval (ft-BTOC) 81.5 - 95

Purge Time: Start: 1215 Sampled by: M. Myers

Static Water Level (ft-BTOC) 16.84 Pump Intake (ft-BTOC) 89

End: 1245 Sample Time: 1250

Water Column (ft) 80.16 Purge Method: (circle one) low flow/low volume volume purge

Volume Purged (mL or gal) 0.90 Duplicate ID: NA

Casing Volume Multiplier 0.16 Well Volume 12.83

Sample equipment (check one): Teflon Bladder Teflon-lined Tubing Teflon Bailor

Appearance (color/odor) Clear / None

Time	Purge Rate (gpm) or (ml/min)	Volume Purged (gal or mL)	Pump Intake (ft-BTOC)	Depth to Water (ft-BTOC)	Temperature (°C)	Specific Conductivity (µS/cm)	pH	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Purged Dry (yes or no) (enter depth purged dry)
1225	0.03	0.30	89	17.05	15.44	202	5.22	3.30	222.0	0.99	N
1230	0.03	0.45	89	17.24	16.81	199	5.07	1.38	253.8	0.51	N
1235	0.03	0.60	89	17.25	17.03	200	5.04	1.10	260.3	0.52	N
1240	0.03	0.75	89	17.24	17.45	199	5.10	1.02 227.2	227.2	0.63	N
1245	0.03	0.90	89	17.24	17.46	198	5.02	0.94	255.5	1.12	N
M.M. 11/19/14											

Constituents Sampled

Check Boxes as appropriate:

VOCs (8260B)

Other (list):

Other Notes:

Primary stabilization parameters:

pH ± 0.1 SU; Specific Conductance

Turbidity: <10 NTU (or within 10% if <10 NTU not achievable)

Drawdown target: < 0.3 feet below static

Secondary water quality parameter: Dissolved Oxygen ±0.2 mg/L

Well Casing Volume Multipliers

Gallons/Foot	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	

Well Information

Repairs Needed (List all):

Well Locked at Arrival: Yes / No

Well Locked at Departure: Yes / No

Well Completion: Flush Mount / Stick Up



Groundwater Sampling Form

Well ID MW-14

Weather Sunny, Cold

Date: 11/19/14

Project Name/Location Lafarge - East Point, GA

Project No. HT212446.0014

Total Well

Depth (ft.-BTOC) 73.7 Screen Interval (ft.-BTOC) 53.8-73

Purge Time: Start: 1310

Sampled by: M. Myers

Static Water Level (ft.-BTOC) 16.79 Pump Intake (ft.-BTOC) 63

End: 1340

Sample Time: 1340

Water Column (ft) 56.91

Purge Method: (circle one)

low flow/low volume volume purge

Volume Purged (mL or gal) 0.90

Duplicate ID: NA

Casing Volume Multiplier 0.16

Well Volume 9.11

Sample equipment (check one):

- Teflon Bladder
- Teflon-lined Tubing
- Teflon Bailor

Appearance (color/odor)

Clear / None

Time	Purge Rate (gpm) or (ml/min)	Volume Purged (gal or mL)	Pump Intake (ft.-BTOC)	Depth to Water (ft.-BTOC)	Temperature (°C)	Specific Conductivity (µS/cm)	pH	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Purged Dry (yes or no) (enter depth purged dry)
1320	0.03	0.30	63	16.92	14.31	146	5.27	3.42	251.9	0.94	N
1325	0.03	0.45	63	16.59	14.75	146	5.19	2.98	266.4	0.98	N
1330	0.03	0.60	63	17.00	14.68	146	5.20	2.91	268.0	0.67	N
1335	0.03	0.75	63	17.00	13.73	144	5.14	2.55	277.0	0.67	N
1340	0.03	0.90	63	17.00	13.58	144	5.17	2.57	282.2	0.59	N
<div style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%); opacity: 0.5;"> <p>11/18/14</p> <p>AM</p> </div>											

Constituents Sampled

Check Boxes as appropriate:

VOCs (8260B)

Other (list):

Other Notes:

Primary stabilization parameters:

pH ± 0.1 SU; Specific Conductance

Turbidity: <10 NTU (or within 10% if <10 NTU not achievable)

Drawdown target: < 0.3 feet below static

Secondary water quality parameter: Dissolved Oxygen ±0.2 mg/L

Well Casing Volume Multipliers

Gallons/Foot	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	

Well Information

Repairs Needed (List all):

Well Locked at Arrival: Yes / No

Well Locked at Departure: Yes / No

Well Completion: Flush Mount / Stick Up



Groundwater Sampling Form

Well ID MU-19

Weather Sunny, Clear

Date: 11/19/14

Project Name/Location Lafarge - East Point, GA

Project No. HT212446.0014

Total Well Depth (ft-BTOC) 29.5 Screen Interval (ft-BTOC) 9.5 - 29

Purge Time: Start: 1400

Sampled by: M. Myers

Static Water Level (ft-BTOC) 19.62 Pump Intake (ft-BTOC) 24

End: 1430

Sample Time: 1435

Water Column (ft) 9.88 Purge Method: (circle one) low flow/low volume volume purge

Volume Purged (mL or gal) 0.90

Duplicate ID: NA

Casing Volume Multiplier 0.16

Well Volume 1.58 Sample equipment (check one): Teflon Bladder Teflon-lined Tubing Teflon Bailor

Appearance (color/odor) Clear / None

Time	Purge Rate (gpm) or (ml/min)	Volume Purged (gal or mL)	Pump Intake (ft-BTOC)	Depth to Water (ft-BTOC)	Temperature (°C)	Specific Conductivity (µS/cm)	pH	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Purged Dry (yes or no) (enter depth purged dry)
1410	0.03	0.30	24	19.85	14.39	132	5.07	5.49	206.5	0.92	N
1415	0.03	0.45	24	19.85	15.53	121	4.61	4.10	214.5	1.01	N
1420	0.07	0.60	24	19.85	15.70	120	4.69	4.04	213.3	0.59	N
1425	0.03	0.75	24	19.85	16.43	118	4.68	3.89	215.0	0.85	N
1430	0.03	0.90	24	19.85	16.85	116	4.68	3.80	223.2	0.99	N
MM 11/19/14											

Constituents Sampled

Check Boxes as appropriate:

VOCs (8260B)

Other (list):

Other Notes:

Primary stabilization parameters:

pH ± 0.1 SU; Specific Conductance

Turbidity: <10 NTU (or within 10% if <10 NTU not achievable)

Drawdown target: < 0.3 feet below static

Secondary water quality parameter: Dissolved Oxygen ±0.2 mg/L

Well Casing Volume Multipliers

Gallons/Foot	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	

Well Information

Repairs Needed (List all):	Well Locked at Arrival: <input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No
Well Completion: <input type="checkbox"/> Flush Mount / <input checked="" type="checkbox"/> Stick Up	Well Locked at Departure: <input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No



Groundwater Sampling Form

Well ID MW-6

Weather Cloudy, Windy, Cold

Date: 1/18/14

Project Name/Location Lafarge - East Point, GA

Project No. HT212446.0014

Total Well

Depth (ft-BTOC) 42.58 Screen Interval (ft-BTOC) 28-39.5

Purge Time: Start: 0945

Sampled by: M. Myers

Static Water

Level (ft-BTOC) 29.52 Pump Intake (ft-BTOC) 37.34

End: 1015

Sample Time: 1025

Water Column (ft) 112.86

Purge Method: (circle one)

low flow/low volume volume purge

Volume Purged (mL or gal) 0.90

Duplicate ID: NA

Casing Volume Multiplier 0.16

Well Volume 2.06

Sample equipment (check one):

- Teflon Bladder
- Teflon-lined Tubing
- Teflon Bailer

Appearance (color/odor) Clear / No. O

Time	Purge Rate (gpm) or (ml/min)	Volume Purged (gal) or (L)	Pump Intake (ft-BTOC)	Depth to Water (ft-BTOC)	Temperature (°C)	Specific Conductivity (µS/cm)	pH	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Purged Dry (yes or no) (enter depth purged dry)
0955	0.03	0.30	37.34	29.54	9.56	176	4.32	4.78	275.6	5.51	N
1000	0.03	0.45	37.34	29.54	9.32	178	4.52	4.74	284.0	4.77	N
1005	0.03	0.60	37.34	29.54	9.47	177	4.44	4.75	290.9	4.96	N
1010	0.03	0.75	37.34	29.54	10.55	175	4.42	4.57	322.3	4.83	N
1015	0.03	0.90	37.34	29.54	10.73	174	4.42	4.52	340.5	4.81	N
mm 1/18/14											

Constituents Sampled

Check Boxes as appropriate:

VOCs (8260B)

Other (list):

Other Notes:

Primary stabilization parameters:

pH ± 0.1 SU; Specific Conductance

Turbidity: <10 NTU (or within 10% if <10 NTU not achievable)

Drawdown target: < 0.3 feet below static

Secondary water quality parameter: Dissolved Oxygen ±0.2 mg/L

Well Casing Volume Multipliers

Gallons/Foot	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	

Well Information

Repairs Needed (List all):

Well Locked at Arrival: Yes / No

Well Locked at Departure: Yes / No

Well Completion: Flush Mount / Stick Up



Groundwater Sampling Form

Well ID MW-18

Weather Sunny, Light Windy

Date: 11/18/14

Project Name/Location Lafarge - East Point, GA

Project No. HT212446.0014

Total Well Depth (ft-BTOC) 40.03 Screen Interval (ft-BTOC) 23-32 Purge Time: Start: 0850 Sampled by: M. Myers

Static Water Level (ft-BTOC) 30.26 Pump Intake (ft-BTOC) 33.5 End: 0920 Sample Time: 0930

Water Column (ft) 9.77 Purge Method: (circle one) low flow/low volume volume purge Volume Purged (mL or gal) 0.90 Duplicate ID: NA

Casing Volume Multiplier 0.16 Well Volume 1.56 Sample equipment (check one): Teflon Bladder Teflon-lined Tubing Teflon Bailor Appearance (color/odor) Clear/None

Time	Purge Rate (gpm) or (ml/min)	Volume Purged (gal or mL)	Pump Intake (ft-BTOC)	Depth to Water (ft-BTOC)	Temperature (°C)	Specific Conductivity (µS/cm)	pH	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Purged Dry (yes or no) (enter depth purged dry)
0900	0.03	0.30	33.35	30.07	12.96	156	5.06	6.37	243.2	10.7	N
0905	0.03	0.45	33.35	30.07	12.88	156	5.13	5.33	239.8	8.23	N
0910	0.03	0.60	33.35	30.07	12.61	159	5.14	4.67	241.9	8.11	N
0915	0.03	0.75	33.35	30.07	12.37	158	5.15	4.90	243.2	7.84	N
0920	0.03	0.90	33.35	30.07	12.24	158	5.14	4.95	301.6	7.75	N
11/18/14											
MM											

Constituents Sampled

Check Boxes as appropriate:

VOCs (8260B)

Other (list):

Other Notes:

Primary stabilization parameters:

pH ± 0.1 SU; Specific Conductance

Turbidity: <10 NTU (or within 10% if <10 NTU not achievable)

Drawdown target: < 0.3 feet below static

Secondary water quality parameter: Dissolved Oxygen ±0.2 mg/L

Well Casing Volume Multipliers

Gallons/Foot	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	

Well Information

Repairs Needed (List all):

Well Locked at Arrival: Yes / No

Well Locked at Departure: Yes / No

Well Completion: Flush Mount / Stick Up



Groundwater Sampling Form

Well ID MW-20

Weather Sunny, Cool

Date: 11/21/14

Project Name/Location Lafarge - East Point, GA

Project No. HT212446.0014

Total Well Depth (ft-BTOC) 27.5 Screen Interval (ft-BTOC) 25-24.5 Purge Time: Start: 0955 Sampled by: M. Myers

Static Water Level (ft-BTOC) 12.90 Pump Intake (ft-BTOC) 19.5 End: 1025 Sample Time: 1030

Water Column (ft) 14.6 Purge Method: (circle one) low flow/low volume volume purge Volume Purged (mL or gal) 0.90 Duplicate ID: NA

Casing Volume Multiplier 0.16 Well Volume 2.34 Sample equipment (check one): Teflon Bladder Teflon-lined Tubing Teflon Bailor Appearance (color/odor) Clear / None

Time	Purge Rate (gpm) or (ml/min)	Volume Purged (gal or mL)	Pump Intake (ft-BTOC)	Depth to Water (ft-BTOC)	Temperature (°C)	Specific Conductivity (µS/cm)	pH	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Purged Dry (yes or no) (enter depth purged dry)
1005	0.03	0.30	19.5	13.22 13.22	17.07	285	6.14	1.90	87.0	2.82	N
1010	0.03	0.45	19.5	13.26	17.69	286	6.18	1.50	85.5	2.67	N
1015	0.03	0.60	19.5	13.27 13.27 17.92 m	17.92	280	6.19	1.53	95.5	6.65	N
1020	0.03	0.75	19.5	13.27	17.92	286	6.20	1.55	92.4	5.42	N
1025	0.03	0.90	19.5	13.22	18.21	286	6.14	1.22	125.4	3.28	N
MM 11/21/14											

Constituents Sampled

Check Boxes as appropriate:

VOCs (8260B)

Other (list):

Other Notes:

Primary stabilization parameters:

pH ± 0.1 SU; Specific Conductance

Turbidity: <10 NTU (or within 10% if <10 NTU not achievable)

Drawdown target: < 0.3 feet below static

Secondary water quality parameter: Dissolved Oxygen ±0.2 mg/L

Well Casing Volume Multipliers

Gallons/Foot	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	

Well Information

Repairs Needed (List all):	Well Locked at Arrival: Yes / No
Well Completion: Flush Mount / Stick Up	Well Locked at Departure: Yes / No



Groundwater Sampling Form

Well ID MW-9

Weather Sunny, Cool

Date: 11/21/14

Project Name/Location Lafarge - East Point, GA

Project No. HT212446.0014

Total Well Depth (ft-BTOC) 81.1 Screen Interval (ft-BTOC) 62-80

Purge Time: Start: 0830 Sampled by: M. Myers

Static Water Level (ft-BTOC) 11.77 Pump Intake (ft-BTOC) 73

End: 0900

Sample Time: 0905

Water Column (ft) 69.37 Purge Method: (circle one) low flow/low volume

low flow/low volume
volume purge

Volume Purged (mL or gal) 0.90

Duplicate ID: NA

Casing Volume Multiplier 2.16

Well Volume 11.09 Sample equipment (check one): Teflon Bladder Teflon-lined Tubing Teflon Bailor

Appearance (color/odor) Clear/None

Time	Purge Rate (gpm) or (ml/min)	Volume Purged (gal) or mL	Pump Intake (ft-BTOC)	Depth to Water (ft-BTOC)	Temperature (°C)	Specific Conductivity (µS/cm)	pH	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Purged Dry (yes or no) (enter depth purged dry)
0840	0.03	0.30	73	11.90	15.15	185	6.13	2.19	57.7	6.67	N
0845	0.03	0.45	73	11.92	15.18	185	6.12	2.14	58.5	6.31	N
0850	0.03	0.60	73	11.93	15.20	184	6.12	2.13	50.0	2.58	N
0855	0.03	0.75	73	11.93	14.77	181	6.06	1.62	77.3	1.29	N
0900	0.03	0.90	73	11.93	14.88	180	6.08	1.55	95.4	1.21	N
NA 11/21/14											

Constituents Sampled

Check Boxes as appropriate:

VOCs (8260B)

Other (list):

Other Notes:

Primary stabilization parameters:

pH ± 0.1 SU; Specific Conductance

Turbidity: <10 NTU (or within 10% if <10 NTU not achievable)

Drawdown target: < 0.3 feet below static

Secondary water quality parameter: Dissolved Oxygen ±0.2 mg/L

Well Casing Volume Multipliers

Gallons/Foot	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	

Well Information

Repairs Needed (List all):

Well Completion: Flush Mount / Stick Up

Well Locked at Arrival: Yes / No

Well Locked at Departure: Yes / No



Groundwater Sampling Form

Page 1 of 1

Well ID MW-10

Weather Sunny, Cool

Date: 11/21/14

Project Name/Location Lafarge - East Point, GA

Project No. HT212446.0014

Total Well Depth (ft-BTOC) 52 Screen Interval (ft-BTOC) 36.9-56.0 Purge Time: Start: 0910 Sampled by: M. Myers

Static Water Level (ft-BTOC) 12.03 Pump Intake (ft-BTOC) 46 End: 0940 Sample Time: 0945

Water Column (ft) 44.92 Purge Method: (circle one) low flow/low volume Volume Purged (ml or gal) 0.90 Duplicate ID: nn

Casing Volume Multiplier 0.16 Well Volume 7.20 Sample equipment (check one): Teflon Bladder Teflon-lined Tubing Teflon Bailer Appearance (color/odor) Clear / None

Table with 12 columns: Time, Purge Rate, Volume Purged, Pump Intake, Depth to Water, Temperature, Specific Conductivity, pH, Dissolved Oxygen, ORP, Turbidity, Purged Dry. Contains 5 rows of data points.

Constituents Sampled

Check Boxes as appropriate: VOCs (8260B) Other (list):

Other Notes: Primary stabilization parameters: pH ± 0.1 SU; Specific Conductance Turbidity: <10 NTU (or within 10% if <10 NTU not achievable) Drawdown target: < 0.3 feet below static Secondary water quality parameter: Dissolved Oxygen ±0.2 mg/L

Well Casing Volume Multipliers

Gallons/Foot 1" = 0.04 1.25" = 0.06 1.5" = 0.09 2" = 0.16 2.5" = 0.26 3" = 0.37 3.5" = 0.50 4" = 0.65 6" = 1.47

Well Information

Repairs Needed (List all): Well Locked at Arrival: Yes / No Well Locked at Departure: Yes / No Well Completion: Flush Mount / Stick Up



Groundwater Sampling Form

Well ID AW-33

Weather Sunny, Warm

Date: 11/24/14

Project Name/Location Lafarge - East Point, GA

Project No. HT212446.0014

Total Well Depth (ft-BTOC) 34.45

Screen Interval (ft-BTOC) 24-34

Purge Time: Start: 1615

Sampled by: M. Myers

Static Water Level (ft-BTOC) 21.19

Pump Intake (ft-BTOC) 29

End: 1645

Sample Time: 1650

Water Column (ft) 13.26

Purge Method: (circle one) low flow/low volume

Volume Purged (mL or gal) 0.90

Duplicate ID: NA

Casing Volume Multiplier 0.16

Well Volume 2.12

Sample equipment (check one): Teflon Bladder Teflon-lined Tubing Teflon Bailor

Appearance (color/odor) Clear / None

Time	Purge Rate (gpm) or (ml/min)	Volume Purged (gal or mL)	Pump Intake (ft-BTOC)	Depth to Water (ft-BTOC)	Temperature (°C)	Specific Conductivity (µS/cm)	pH	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Purged Dry (yes or no) (enter depth purged dry)
1625	0.03	0.30	29	21.19	22.02	233	6.73	2.95	-29.5	7.25	N
1630	0.03	0.45	29	21.19	21.68	232	6.65	1.04	-30.2	7.17	N
1635	0.03	0.60	29	21.19	21.56	237	6.62	0.62	-31.1	8.23	N
1640	0.03	0.75	29	21.19	21.49	236	6.60	0.56	-32.3	7.59	N
1645	0.03	0.90	29	21.19	21.47	236	6.60	0.52	-33.2	7.15	N
NA 11/24/14											

Constituents Sampled

Check Boxes as appropriate:

VOCs (8260B)

Other (list):

Other Notes:

Primary stabilization parameters:

pH ± 0.1 SU; Specific Conductance

Turbidity: <10 NTU (or within 10% if <10 NTU not achievable)

Drawdown target: < 0.3 feet below static

Secondary water quality parameter: Dissolved Oxygen ±0.2 mg/L

Well Casing Volume Multipliers

Gallons/Foot	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	

Well Information

Repairs Needed (List all):

Well Locked at Arrival: Yes / No

Well Locked at Departure: Yes / No

Well Completion: Flush Mount / Stick Up



Groundwater Sampling Form

Well ID M.S.35

Weather Sunny, Warm

Date: 11/24/14

Project Name/Location Lafarge - East Point, GA

Project No. HT212446.0014

Total Well Depth (ft-BTOC) 61.18

Screen Interval (ft-BTOC) 50-60

Purge Time: Start: 1440

Sampled by: M. Myers

Static Water Level (ft-BTOC) 20.76

Pump Intake (ft-BTOC) 55

End: 1510

Sample Time: 1515

Water Column (ft) 40.42

Purge Method: (circle one) low flow/low volume volume-purge

Volume Purged (mL or gal) 290

Duplicate ID: NA

Well Volume 6.47

Sample equipment (check one): Teflon Bladder Teflon-lined Tubing Teflon Bailer

Appearance (color/odor) Clear / None

Time	Purge Rate (gpm or ml/min)	Volume Purged (gal or mL)	Pump Intake (ft-BTOC)	Depth to Water (ft-BTOC)	Temperature (°C)	Specific Conductivity (µS/cm)	pH	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Purged Dry (yes or no) (enter depth purged dry)
1440	0.03	0.30	55	21.07	23.94	2248	7.85	0.39	-83.3	7.12	N
1455	0.03	0.45	55	21.09	23.57	250	7.80	3.81	-97.0	7.01	N
1500	0.03	0.60	55	21.10	23.44	250	7.78	3.53	-97.9	5.96	N
1505	0.03	0.75	55	21.10	23.41	250	7.79	1.80	-98.7	2.66	N
1510	0.03	0.90	55	21.10	23.22	250	7.73	0.93	-98.1	2.56	N
<i>MLA 11/24/14</i>											

Constituents Sampled

Check Boxes as appropriate:

VOCs (8260B)

Other (list):

Other Notes:

Primary stabilization parameters:

pH ± 0.1 SU; Specific Conductance

Turbidity: <10 NTU (or within 10% if <10 NTU not achievable)

Drawdown target: < 0.3 feet below static

Secondary water quality parameter: Dissolved Oxygen ±0.2 mg/L

Well Casing Volume Multipliers

Gallons/Foot	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	

Well Information

Repairs Needed (List all):

Well Locked at Arrival: Yes / No

Well Locked at Departure: Yes / No

Well Completion: Flush Mount / Stick Up



Groundwater Sampling Form

Well ID MW-30

Weather Sunny Warm

Date: 11/24/14

Project Name/Location Lafarge - East Point, GA

Project No. HT212446.0014

Total Well Depth (ft-BTOC) 277 ft

Screen Interval (ft-BTOC) 50-60

Purge Time: Start: 0840

Sampled by: M. Myers

Static Water Level (ft-BTOC) 9.28

Pump Intake (ft-BTOC) 55-60

End: 0910

Sample Time: 0920

Water Column (ft) 50.72

Purge Method: (circle one) low flow/low volume volume purge

Volume Purged (mL or gal) 0.90

Duplicate ID: NA

Casing Volume Multiplier 0.16

Well Volume 8.12

Sample equipment (check one): Teflon Bladder Teflon-lined Tubing Teflon Bailer

Appearance (color/odor) Clear / None

Time	Purge Rate (gpm) or (ml/min)	Volume Purged (gal) or (mL)	Pump Intake (ft-BTOC)	Depth to Water (ft-BTOC)	Temperature (°C)	Specific Conductivity (µS/cm)	pH	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Purged Dry (yes or no) (enter depth purged dry)
0850	0.03	0.30	55	9.54	20.73	2399	12.19	1.21	-57.9	5.96	N
0855	0.03	0.45	55	9.55	20.49	2413	12.32	0.96	-85.0	5.54	N
0900	0.03	0.60	55	9.55	20.57	2414	12.53	0.87	-94.4	5.56	N
0905	0.03	0.75	55	9.55	20.69	2410	12.36	0.87	-103.5	4.98	N
0910	0.03	0.90	55	9.55	20.75	2411	12.35	0.86	-102.7	4.71	N

Constituents Sampled

Check Boxes as appropriate:

VOCs (8260B)

Other (list):

Other Notes:

Primary stabilization parameters:

pH ± 0.1 SU; Specific Conductance

Turbidity: <10 NTU (or within 10% if <10 NTU not achievable)

Drawdown target: < 0.3 feet below static

Secondary water quality parameter: Dissolved Oxygen ±0.2 mg/L

Well Casing Volume Multipliers

Gallons/Foot	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	

Well Information

Repairs Needed (List all):

Well Locked at Arrival: Yes / No

Well Locked at Departure: Yes / No

Well Completion: Flush Mount Stick Up



Groundwater Sampling Form

Well ID MW-2

Weather Sunny, Warm

Date: 11/24/14

Project Name/Location Lafarge - East Point, GA

Project No. HT212446.0014

Total Well Depth (ft.-BTOC) 27.2

Screen Interval (ft.-BTOC) 15.5 - 25

Purge Time: Start: 0950

Sampled by: M. Myers

Static Water Level (ft.-BTOC) 16.63

Pump Intake (ft.-BTOC) 20

End: 1030

Sample Time: 1035

Water Column (ft) 11.07

Purge Method: (circle one) low flow/low volume volume purge

Volume Purged (mL or gal) 1.20

Duplicate ID: NH

Casing Volume Multiplier 0.16

Well Volume 1.77

Sample equipment (check one): Teflon Bladder Teflon-lined Tubing Teflon Bailor

Appearance (color/odor) Clear / None

Time	Purge Rate (gpm or ml/min)	Volume Purged (gal or mL)	Pump Intake (ft.-BTOC)	Depth to Water (ft.-BTOC)	Temperature (°C)	Specific Conductivity (µS/cm)	pH	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Purged Dry (yes or no) (enter depth purged dry)
1000	0.03	0.30	20	16.70	20.24	572	7.29	1.02	-94.0	23.4	N
1005	0.03	0.45	20	16.90	20.26	572	7.17	0.88	-86.1	19.9	N
1010	0.03	0.60	20	16.92	20.23	567	7.02	0.58	-70.4	15.8	N
1015	0.03	0.75	20	16.92	20.24	562	6.98	0.36	-76.8	10.1	N
1020	0.03	0.90	20	16.92	20.27	561	6.97	0.32	-75.8	8.35	N
1025	0.03	1.05	20	16.92	20.32	561	6.97	0.28	-70.7	8.18	N
1030	0.03	1.20	20	16.92	20.35	561	6.96	0.25	-77.4	7.97	N
<div style="position: absolute; top: 50px; left: 50px; transform: rotate(-45deg); opacity: 0.5;"> <p>MW1 11/24/14</p> </div>											

Constituents Sampled

Check Boxes as appropriate:

VOCs (8260B)
 Other (list):

Other Notes:

Primary stabilization parameters:
 pH ± 0.1 SU; Specific Conductance _____
 Turbidity: <10 NTU (or within 10% if <10 NTU not achievable)
 Drawdown target: < 0.3 feet below static
 Secondary water quality parameter: Dissolved Oxygen ±0.2 mg/L

Well Casing Volume Multipliers

Gallons/Foot 1" = 0.04 1.5" = 0.09 2.5" = 0.26 3.5" = 0.50 6" = 1.47
 1.25" = 0.06 2" = 0.16 3" = 0.37 4" = 0.65

Well Information

Repairs Needed (List all): _____	Well Locked at Arrival: <input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No
Well Completion: <input type="checkbox"/> Flush Mount / <input checked="" type="checkbox"/> Stick Up	Well Locked at Departure: <input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No



Groundwater Sampling Form

Sunny, Warm

Well ID MW-3

Weather CLEAR

Date: 11/24/14

Project Name/Location Lafarge - East Point, GA

Project No. HT212446.0014

Total Well Depth (ft-BTOC) 32.8 Screen Interval (ft-BTOC) 25-32.3 Purge Time: Start: 1158 End: 1220 Sampled by: M. Myers

Static Water Level (ft-BTOC) 17.48 Pump Intake (ft-BTOC) 28 Sample Time: 1225

Water Column (ft) 15.32 Purge Method: (circle one) low flow/low volume volume purge Volume Purged (mL or gal) 0.90 Duplicate ID: NA

Casing Volume Multiplier 0.16 Well Volume 2.45 Sample equipment (check one): Teflon Bladder Teflon-lined Tubing Teflon Bailer Appearance (color/odor) Clear / None

Time	Purge Rate (gpm) or (ml/min)	Volume Purged (gal) or (mL)	Pump Intake (ft-BTOC)	Depth to Water (ft-BTOC)	Temperature (°C)	Specific Conductivity (µS/cm)	pH	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Purged Dry (yes or no) (enter depth purged dry)
1200	0.03	0.30	28	18.02	20.63	218	7.64	5.62	27.5	16.3	N
1205	0.03	0.45	28	18.04	20.75	217	7.67	4.58	33.5	11.7	N
1210	0.03	0.60	28	18.05	20.77	213	7.52	4.27	44.5	13.3	N
1215	0.03	0.75	28	18.05	20.74	212	7.49	4.06	44.9	9.73	N
1220	0.03	0.90	28	18.05	20.69	210	7.47	3.55	40.5	9.66	N
<i>M.M. 11/24/14</i>											

Constituents Sampled

Check Boxes as appropriate:

VOCs (8260B)

Other (list):

Other Notes:

Primary stabilization parameters:

pH ± 0.1 SU; Specific Conductance

Turbidity: <10 NTU (or within 10% if <10 NTU not achievable)

Drawdown target: < 0.3 feet below static

Secondary water quality parameter: Dissolved Oxygen ±0.2 mg/L

Well Casing Volume Multipliers

Gallons/Foot 1" = 0.04 1.5" = 0.09 2.5" = 0.26 3.5" = 0.50 6" = 1.47
 1.25" = 0.06 2" = 0.16 3" = 0.37 4" = 0.65

Well Information

Repairs Needed (List all):

Well Completion: Flush Mount / Stick Up

Well Locked at Arrival: Yes / No

Well Locked at Departure: Yes / No



Groundwater Sampling Form

Well ID MW-17

Weather Sunny, Warm

Date: 11/24/14

Project Name/Location Lafarge - East Point, GA

Project No. HT212446.0014

Total Well Depth (ft-BTOC) 56.3 Screen Interval (ft-BTOC) 16-35

Purge Time: Start: 1055 End: 1125 Sampled by: M. Myers

Static Water Level (ft-BTOC) 23.72 Pump Intake (ft-BTOC) 29

Sample Time: 1130

Water Column (ft) 12.58 Purge Method: (circle one) low flow/low volume volume purge

Volume Purged (mL or gal) 0.90 Duplicate ID: NA

Casing Volume Multiplier 0.16

Well Volume 2.01

Sample equipment (check one): Teflon Bladder Teflon-lined Tubing Teflon Bailer

Appearance (color/odor) Clear/Water

Table with 12 columns: Time, Purge Rate, Volume Purged, Pump Intake, Depth to Water, Temperature, Specific Conductivity, pH, Dissolved Oxygen, ORP, Turbidity, Purged Dry. Contains 5 rows of data.

Constituents Sampled

Check Boxes as appropriate:

VOCs (8260B)

Other (list): Total Mercury (Lead)

Other Notes:

Primary stabilization parameters:

pH ± 0.1 SU; Specific Conductance

Turbidity: <10 NTU (or within 10% if <10 NTU not achievable)

Drawdown target: < 0.3 feet below static

Secondary water quality parameter: Dissolved Oxygen ±0.2 mg/L

Well Casing Volume Multipliers

Table with 6 columns: Gallons/Foot, 1" = 0.04, 1.5" = 0.09, 2" = 0.16, 2.5" = 0.26, 3" = 0.37, 3.5" = 0.50, 4" = 0.65, 6" = 1.47

Well Information

Repairs Needed (List all):

Well Completion: Flush Mount Stick Up

Well Locked at Arrival: Yes / No

Well Locked at Departure: Yes / No



Groundwater Sampling Form

Well ID MW-5R

Weather Sunny, Warm

Date: 11/24/14

Project Name/Location Lafarge - East Point, GA

Project No. HT212446.0014

Total Well Depth (ft-BTOC) 58.40 Screen Interval (ft-BTOC) 43-58

Purge Time: Start: 1250 Sampled by: M. Myers

Static Water Level (ft-BTOC) 20.63 Pump Intake (ft-BTOC) 50.5

End: 1320 Sample Time: 1330

Water Column (ft) 38.37

Purge Method: (circle one) low flow/low volume volume purge Volume Purged (mL or gal) 0.90

Duplicate ID: NA

Casing Volume Multiplier 0.6 Well Volume 613

Sample equipment (check one): Teflon Bladder Teflon-lined Tubing Teflon Bailor

Appearance (color/odor) Clear/None

Time	Purge Rate (gpm) or (ml/min)	Volume Purged (gal) or (mL)	Pump Intake (ft-BTOC)	Depth to Water (ft-BTOC)	Temperature (°C)	Specific Conductivity (µS/cm)	pH	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Purged Dry (yes or no) (enter depth purged dry)
1300	0.03	0.30	50.5	20.53	21.73	172	6.36	4.63	102.4	2.83	N
1305	0.03	0.45	50.5	20.59	21.46	170	6.13	2.18	100.0	2.35	N
1310	0.03	0.60	50.5	20.60	21.45	164	5.89	1.37	128.5	2.12	N
1315	0.03	0.75	50.5	20.60	21.42	165	5.83	1.18	130.2	2.01	N
1320	0.03	0.90	50.5	20.60	21.36	162	5.84	0.90	150.1	2.10	N
MM 11/24/14											

Constituents Sampled

Check Boxes as appropriate:

- VOCs (8260B)
- Other (list):

Other Notes:

Primary stabilization parameters:
 pH ± 0.1 SU; Specific Conductance
 Turbidity: <10 NTU (or within 10% if <10 NTU not achievable)
 Drawdown target: < 0.3 feet below static
 Secondary water quality parameter: Dissolved Oxygen ±0.2 mg/L

Well Casing Volume Multipliers

Gallons/Foot	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	

Well Information

Repairs Needed (List all):	Well Locked at Arrival: Yes / No
Well Completion: Flush Mount / Stick Up	Well Locked at Departure: Yes / No



Groundwater Sampling Form

Well ID MW-4

Weather Sunny, Warm

Date: 11/24/14

Project Name/Location Lafarge - East Point, GA

Project No. HT212446.0014

Total Well Depth (ft-BTOC) 39 Screen Interval (ft-BTOC) 195-39

Purge Time: Start: 1350

Sampled by: M. Myers

Static Water Level (ft-BTOC) 18.24 Pump Intake (ft-BTOC) 29

End: 1420

Sample Time: 1425

Water Column (ft) 20.76

Purge Method: (circle one) low flow/low volume volume purge

Volume Purged (mL or gal) 0.90

Duplicate ID: NA

Casing Volume Multiplier 0.16

Well Volume 3.52

Sample equipment (check one): Teflon Bladder Teflon-lined Tubing Teflon Bailor

Appearance (color/odor) Clear / None

Time	Purge Rate (gpm) or (ml/min)	Volume Purged (gal or mL)	Pump Intake (ft-BTOC)	Depth to Water (ft-BTOC)	Temperature (°C)	Specific Conductivity (µS/cm)	pH	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Purged Dry (yes or no) (enter depth purged dry)
<u>1400</u> <u>005</u>	<u>0.03</u>	<u>0.30</u>	<u>29</u>	<u>18.90</u>	<u>22.12</u>	<u>224</u>	<u>6.42</u>	<u>7.48</u>	<u>99.9</u>	<u>10.7</u>	<u>N</u>
<u>1405</u>	<u>0.03</u>	<u>0.45</u>	<u>29</u>	<u>18.91</u>	<u>22.16</u>	<u>225</u>	<u>6.41</u>	<u>2.12</u>	<u>93.9</u>	<u>9.16</u>	<u>N</u>
<u>1410</u>	<u>0.03</u>	<u>0.60</u>	<u>29</u>	<u>18.90</u>	<u>22.22</u>	<u>223</u>	<u>6.40</u>	<u>1.50</u>	<u>93.8</u>	<u>8.48</u>	<u>N</u>
<u>1415</u>	<u>0.03</u>	<u>0.75</u>	<u>29</u>	<u>18.90</u>	<u>22.08</u>	<u>223</u>	<u>6.38</u>	<u>1.08</u>	<u>95.2</u>	<u>9.08</u>	<u>N</u>
<u>1420</u>	<u>0.03</u>	<u>0.90</u>	<u>29</u>	<u>18.90</u>	<u>21.95</u>	<u>223</u>	<u>6.35</u>	<u>0.86</u>	<u>97.1</u>	<u>8.48</u>	<u>N</u>
<u>MM 11/24/14</u>											

Constituents Sampled

Check Boxes as appropriate:

VOCs (8260B)

Other (list):

Other Notes:

Primary stabilization parameters:

pH ± 0.1 SU; Specific Conductance

Turbidity: <10 NTU (or within 10% if <10 NTU not achievable)

Drawdown target: < 0.3 feet below static

Secondary water quality parameter: Dissolved Oxygen ±0.2 mg/L

Well Casing Volume Multipliers

Gallons/Foot	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	

Well Information

Repairs Needed (List all):

Well Locked at Arrival: Yes / No

Well Locked at Departure: Yes / No

Well Completion: Flush Mount / Stick Up



Groundwater Sampling Form

Well ID MW-34

Weather Sunny/Warm

Date: 11/24/14

Project Name/Location Lafarge - East Point, GA

Project No. HT212446.0014

Total Well Depth (ft-BTOC) 61.54 Screen Interval (ft-BTOC) 50-60 Purge Time: Start: 1530 Sampled by: M. Myers

Static Water Level (ft-BTOC) 20.04 Pump Intake (ft-BTOC) 55 End: 1600 Sample Time: 1605

Water Column (ft) 41.52 Purge Method: (circle one) low flow/low volume volume purge Volume Purged (mL or gal) 0.90 Duplicate ID: NA

Casing Volume Multiplier 0.16 Well Volume 6.64 Sample equipment (check one): Teflon Bladder Teflon-lined Tubing Teflon Bailor Appearance (color/odor) Clear / None

Time	Purge Rate (gpm) or (ml/min)	Volume Purged (gal or mL)	Pump Intake (ft-BTOC)	Depth to Water (ft-BTOC)	Temperature (°C)	Specific Conductivity (µS/cm)	pH	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Purged Dry (yes or no) (enter depth purged dry)
1540	0.03	0.50	55	20.38	22.56	146	6.50	4.06	93.4	1.56	N
1545	0.03	0.45	55	20.63	22.29	141	6.02	2.68	128.4	1.33	N
1550	0.03	0.60	55	20.64	22.23	141	6.01	2.53	131.6	1.19	N
1555	0.03	0.75	55	20.64	22.24	141	5.97	2.50	136.6	1.05	N
1600	0.03	0.90	55	20.64	22.24	139	5.93	2.58	142.4	1.07	N
MM 11/24/14											

Constituents Sampled

Check Boxes as appropriate:

VOCs (8260B) Other (list):

Other Notes:

Primary stabilization parameters: pH ± 0.1 SU; Specific Conductance Turbidity: <10 NTU (or within 10% if <10 NTU not achievable) Drawdown target: < 0.3 feet below static Secondary water quality parameter: Dissolved Oxygen ±0.2 mg/L

Well Casing Volume Multipliers

Gallons/Foot	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.16	3" = 0.37	4" = 0.85	

Well Information

Repairs Needed (List all): _____ Well Locked at Arrival: Yes / No

Well Completion: Flush Mount / Stick Up Well Locked at Departure: Yes / No



Groundwater Sampling Form

Well ID MW-21

Weather Cloudy, Cool

Date: 11/25/14

Project Name/Location Lafarge - East Point, GA

Project No. HT212446.0014

Total Well Depth (ft-BTOC) 24.5 Screen Interval (ft-BTOC) 9.8 - 23.8

Purge Time: Start: 0825 Sampled by: M. Myers

Static Water Level (ft-BTOC) 20.08 Pump Intake (ft-BTOC) 22

End: 0855 Sample Time: 0900

Water Column (ft) 4.42 Purge Method: (circle one) low flow/low volume volume-purge

Volume Purged (mL or gal) 0.90 Duplicate ID: DUP-01

Casing Volume Multiplier 0.16 Well Volume 0.70 Sample equipment (check one): Teflon Bladder Teflon-lined Tubing Teflon Bailor

Appearance (color/odor) Clear / Present

Time	Purge Rate (gpm) or (ml/min)	Volume Purged (gal) or (mL)	Pump Intake (ft-BTOC)	Depth to Water (ft-BTOC)	Temperature (°C)	Specific Conductivity (µS/cm)	pH	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Purged Dry (yes or no) (enter depth purged dry)
0835	0.03	0.50	22	20.32	16.49	645	6.13	1.21	0.1	19.5	N
0840	0.03	0.45	22	20.55	17.08	648	6.13	1.05	-2.4	17.2	N
0845	0.03	0.60	22	20.54	17.02	648	6.07	1.08	-3.7	12.2	N
0850	0.03	0.75	22	20.54	17.03	648	6.11	0.93	-5.3	9.82	N
0905	0.03	0.90	22	20.54	17.01	647	6.11	0.95	-5.8	9.69	N
mu 11/25/14											

Constituents Sampled

Check Boxes as appropriate:

VOCs (8260B)

Other (list):

Other Notes:

Primary stabilization parameters:

pH ± 0.1 SU; Specific Conductance

Turbidity: <10 NTU (or within 10% if <10 NTU not achievable)

Drawdown target: < 0.3 feet below static

Secondary water quality parameter: Dissolved Oxygen ±0.2 mg/L

Well Casing Volume Multipliers

Gallons/Foot	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	

Well Information

Repairs Needed (List all):

Well Locked at Arrival: Yes / No

Well Locked at Departure: Yes / No

Well Completion: Flush Mount / Stick Up



Groundwater Sampling Form

Page 1 of 1

Well ID MW-8

Weather Cloudy Cool

Date: 11/25/14

Project Name/Location Lafarge - East Point, GA

Project No. HT212446.0014

Total Well Depth (ft-BTOC) 39.3 Screen Interval (ft-BTOC) 29-38.5 Purge Time: Start: 0940 End: 1010 Sampled by: M. Myers

Static Water Level (ft-BTOC) 19.78 Pump Intake (ft-BTOC) 33.5 Purge Method: (circle one) low flow/low volume Volume Purged (mL or gal) 0.90 Duplicate ID: AT10702

Water Column (ft) 19.52 Casing Volume Multiplier 0.16 Well Volume 3.12 Sample equipment (check one): Teflon Bladder Teflon-lined Tubing Teflon Bailor Appearance (color/odor) clear / None

Table with 13 columns: Time, Purge Rate, Volume Purged, Pump Intake, Depth to Water, Temperature, Specific Conductivity, pH, Dissolved Oxygen, ORP, Turbidity, Purged Dry. Contains 5 rows of data and a large diagonal scribble across the bottom half.

Constituents Sampled

Check Boxes as appropriate:

[x] VOCs (8260B)

[] Other (list):

Other Notes:

Primary stabilization parameters:

pH ± 0.1 SU; Specific Conductance

Turbidity: <10 NTU (or within 10% if <10 NTU not achievable)

Drawdown target: < 0.3 feet below static

Secondary water quality parameter: Dissolved Oxygen ±0.2 mg/L

Well Casing Volume Multipliers

Table with 6 columns: Gallons/Foot, 1" = 0.04, 1.25" = 0.06, 2" = 0.16, 2.5" = 0.26, 3" = 0.37, 3.5" = 0.50, 4" = 0.65, 6" = 1.47

Well Information

Repairs Needed (List all):

Well Locked at Arrival: Yes / No

Well Locked at Departure: Yes / No

Well Completion: Flush Mount / Stick Up



Groundwater Sampling Form

Well ID MW-7

Weather Cloudy Cool

Date: 11/25/14

Project Name/Location Lafarge - East Point, GA

Project No. HT212446.0014

Total Well Depth (ft-BTOC) 61.5 Screen Interval (ft-BTOC) 47.5 - 61.5

Purge Time: Start: 1030 Sampled by: M. Myers

Static Water Level (ft-BTOC) 19.07 Pump Intake (ft-BTOC) 54.5

End: 1110 Sample Time: 1120

Water Column (ft) 42.43 Purge Method: (circle one) low flow/low volume volume purge

Volume Purged (mL or gal) 1.20 Duplicate ID: 70703

Casing Volume Multiplier 0.16 Well Volume 6.78

Sample equipment (check one): Teflon Bladder Teflon-lined Tubing Teflon Bailor

Appearance (color/odor) Clear / None

Time	Purge Rate (gpm) or (ml/min)	Volume Purged (gal) or (mL)	Pump Intake (ft-BTOC)	Depth to Water (ft-BTOC)	Temperature (°C)	Specific Conductivity (µS/cm)	pH	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Purged Dry (yes or no) (enter depth purged dry)
1040	0.03	0.30	54.5	19.75	19.04	176	6.15	3.64	43.0	5.47	N
1045	0.03	0.45	54.5	19.96	19.08	179	6.44	3.45	40.8	4.15	N
1050	0.03	0.60	54.5	19.98	19.20	183	6.43	3.32	40.1	2.90	N
1055	0.03	0.75	54.5	20.00	19.34	190	6.43	2.65	30.0	3.46	N
1100	0.03	0.90	54.5	20.01	19.56	200	6.43	1.81	23.2	2.44	N
1105	0.03	1.05	54.5	20.01	19.65	201	6.44	1.48	10.4	2.31	N
1110	0.03	1.20	54.5	20.01	19.73	201	6.44	1.42	18.8	2.76	N
MM 11/25/14											

Constituents Sampled

Check Boxes as appropriate:

VOCs (8260B)

Other (list):

Other Notes:

Primary stabilization parameters:

pH ± 0.1 SU; Specific Conductance

Turbidity: <10 NTU (or within 10% if <10 NTU not achievable)

Drawdown target: < 0.3 feet below static

Secondary water quality parameter: Dissolved Oxygen ±0.2 mg/L

Well Casing Volume Multipliers

Gallons/Foot	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	

Well Information

Repairs Needed (List all):

Well Locked at Arrival: Yes No

Well Locked at Departure: Yes No

Well Completion: Flush-Mount / Stick Up

ARCADIS Groundwater Sampling Form

Well ID DPE - 408

Weather Sunny, cold

Date: 2/18/15

Project Name/Location Lafarge - East Point, GA

Project No. HT212446.0014

Total Well Depth (ft-BTOC) / Screen Interval (ft-BTOC) / Purge Time: Start: / End: / Sampled by: M. Myer

Static Water Level (ft-BTOC) / Pump Intake (ft-BTOC) / Sample Time: 1055

Water Column (ft) / Purge Method: (circle one) low flow/low volume Volume Purged (mL or gal) / Duplicate ID: NR

Casing Volume Multiplier / (hrs) volume purge Appearance (color/odor) Clean / No Present

Well Volume / Sample equipment (check one): Teflon Bladder Teflon-lined Tubing Teflon Bailor

Time	Purge Rate (gpm) or (ml/min)	Volume Purged (gal or mL)	Pump Intake (ft-BTOC)	Depth to Water (ft-BTOC)	Temperature (°C)	Specific Conductivity (µS/cm)	pH	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Purged Dry (yes or no) (enter depth purged dry)
1055	/	/	/	/	17.21	352	6.53	1.41	-64.4	242	NO
<i>[Large handwritten scribble]</i>											

Constituents Sampled

Check Boxes as appropriate:

VOCs (8260B)

Other (list): _____

Other Notes: Primary stabilization parameters:

pH ± 0.1 SU; Specific Conductance

Turbidity: <10 NTU (or within 10% if <10 NTU not achievable)

Drawdown target: < 0.3 feet below static

Secondary water quality parameter: Dissolved Oxygen ±0.2 mg/L

Well Casing Volume Multipliers

Gallons/Foot	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	

Well Information

Repairs Needed (List all): _____

Well Locked at Arrival: Yes / No _____

Well Locked at Departure: Yes / No _____

Well Completion: Flush Mount / Stick Up

ARCADIS Groundwater Sampling Form

Well ID DPE-305

Weather Sunny, cold

Date: 3/10/12

Project Name/Location Lafarge - East Point, GA

Project No. HT212446.0014

Total Well Depth (ft-BTOC) / Screen Interval (ft-BTOC) / Purge Time: Start: / End: / Sampled by: M. Aye
 Static Water Level (ft-BTOC) / Pump Intake (ft-BTOC) / Sample Time: 12:00 PM
 Water Column (ft) / Purge Method: (circle one) low flow/low volume Volume Purged (mL or gal) / Duplicate ID: 212
 Casing Volume Multiplier / High Sample equipment (check one): Teflon Bladder Teflon-lined Tubing Teflon Bailer Appearance (color/odor) Clear
 Well Volume /

Time	Purge Rate (gpm) or (ml/min)	Volume Purged (gal or mL)	Pump Intake (ft-BTOC)	Depth to Water (ft-BTOC)	Temperature (°C)	Specific Conductivity (µS/cm)	pH	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Purged Dry (yes or no) (enter depth purged dry)
1100	—	—	—	—	16.03	295	6.55	3.41	-424	126	—
<i>[Large handwritten scribble across the table]</i>											

Constituents Sampled

Check Boxes as appropriate:

VOCs (8260B)
 Other (list): _____

Other Notes: Primary stabilization parameters:
pH ± 0.1 SU; Specific Conductance
Turbidity: <10 NTU (or within 10% if <10 NTU not achievable)
Drawdown target: < 0.3 feet below static
Secondary water quality parameter: Dissolved Oxygen ±0.2 mg/L

Well Casing Volume Multipliers

Gallons/Foot 1" = 0.04 1.5" = 0.09 2.5" = 0.26 3.5" = 0.50 6" = 1.47
 1.25" = 0.06 2" = 0.16 3" = 0.37 4" = 0.65

Well Information

Repairs Needed (List all): _____
 Well Completion: Flush Mount / Stick Up
 Well Locked at Arrival: Yes / No
 Well Locked at Departure: Yes / No

ARCADIS Groundwater Sampling Form

Well ID: D26 307 RW-2

Weather: Sunny, ldd

Date: 2/10/15

Project Name/Location: Lafarge - East Point, GA

Project No.: HT212446.0014

Total Well Depth (ft-BTOC) / Screen Interval (ft-BTOC) / Purge Time: Start: / End: / Sampled by: MW
 Static Water Level (ft-BTOC) / Pump Intake (ft-BTOC) / Sample Time: 1110
 Water Column (ft) / Purge Method: (circle one) low flow/low volume volume purge Volume Purged (mL or gal) / Duplicate ID: NA
 Casing Volume Multiplier / Well Volume / Sample equipment (check one): Teflon Bladder Teflon-lined Tubing Teflon Bailor Appearance (color/odor) clear

Time	Purge Rate (gpm) or (ml/min)	Volume Purged (gal or mL)	Pump Intake (ft-BTOC)	Depth to Water (ft-BTOC)	Temperature (°C)	Specific Conductivity (µS/cm)	pH	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Purged Dry (yes or no) (enter depth purged dry)
<u>1110</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>16.12</u>	<u>286</u>	<u>6.54</u>	<u>3.47</u>	<u>-523</u>	<u>12.70</u>	<u>NO</u>
<i>[Large handwritten scribble]</i>											

Constituents Sampled

Check Boxes as appropriate:

VOCs (8260B)
 Other (list): _____

Other Notes:

Primary stabilization parameters:
 pH ± 0.1 SU; Specific Conductance
 Turbidity: <10 NTU (or within 10% if <10 NTU not achievable)
 Drawdown target: < 0.3 feet below static
 Secondary water quality parameter: Dissolved Oxygen ±0.2 mg/L

Well Casing Volume Multipliers

Gallons/Foot	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	

Well Information

Repairs Needed (List all): _____
 Well Completion: Flush Mount / Stick Up
 Well Locked at Arrival: Yes / No
 Well Locked at Departure: Yes / No



Groundwater Sampling Form

Well ID MW-35

Weather MOSTLY CLOUDY, 31°F

Date: 2/18/15

Project Name/Location Lafarge - East Point, GA

Project No. HT212446.0014

Total Well

Depth (ft-BTOC) 60 Screen Interval (ft-BTOC) —

Purge Time: Start: 1105

Sampled by: JR

Static Water Level (ft-BTOC) 21.13 Pump Intake (ft-BTOC) 55

End: 1135

Sample Time: 1140

Water Column (ft) 38.87

Purge Method: (circle one) low flow/low volume

Volume Purged (ml or gal) 6000

Duplicate ID: —

Casing Volume Multiplier .16

low flow/low volume volume purge

Well Volume 6.22

Sample equipment (check one): Teflon Bladder Teflon-lined Tubing Teflon Bailor

Appearance (color/odor) CLEAR / NONE

Time	Purge Rate (gpm or ml/min)	Volume Purged (gal or mL)	Pump Intake (ft-BTOC)	Depth to Water (ft-BTOC)	Temperature (°C)	Specific Conductivity (µS/cm)	pH	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Purged Dry (yes or no) (enter depth purged dry)
1115	200	2000	55	21.90	15.57	329	7.23	1.37	-80.3	1.72	NO
1120	↓	3000	55	22.07	15.23	331	7.09	1.04	-81.3	1.38	NO
1125		4000	55	22.30	15.17	328	7.11	0.82	-79.1	1.61	NO
1130		5000	55	22.33	15.09	330	7.10	0.79	-83.6	1.22	NO
1135		6000	55	22.42	15.11	330	7.09	0.78	-80.0	1.11	NO

Constituents Sampled

Check Boxes as appropriate:

- VOCs (8260B)
- Other (list):

Other Notes: Primary stabilization parameters:

pH ± 0.1 SU; Specific Conductance

Turbidity: <10 NTU (or within 10% if <10 NTU not achievable)

Drawdown target: < 0.3 feet below static

Secondary water quality parameter: Dissolved Oxygen ±0.2 mg/L

Well Casing Volume Multipliers

Gallons/Foot	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	<u>2" = 0.15</u>	3" = 0.37	4" = 0.65	

Well Information

Repairs Needed (List all): NONE

Well Completion: Flush Mount / Stick Up

Well Locked at Arrival: Yes / No

Well Locked at Departure: Yes / No

ARCADIS Groundwater Sampling Form

Well ID MW-34 Weather cloudy / 31°F Page 1 of 1
 Date: 2/18/15

Project Name/Location Lafarge - East Point, GA Project No. HT212446.0014

Total Well Depth (ft-BTOC) 60 Screen Interval (ft-BTOC) — Purge Time: Start: 1202 Sampled by: JR
 Static Water Level (ft-BTOC) 20.89 Pump Intake (ft-BTOC) 55 End: 1232 Sample Time: 1235
 Water Column (ft) 39.11 Purge Method: (circle one) low flow/low volume Volume Purged (ml or gal) 6000 Duplicate ID: —
 Casing Volume Multiplier 0.16 Well Volume 6.26 Sample equipment (check one): Teflon Bladder Appearance (color/odor) CLEAR / NONE
 Teflon-lined Tubing
 Teflon Bailor

Time	Purge Rate (gpm) or (ml/min)	Volume Purged (gal or mL)	Pump Intake (ft-BTOC)	Depth to Water (ft-BTOC)	Temperature (°C)	Specific Conductivity (µS/cm)	pH	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Purged Dry (yes or no) (enter depth purged dry)
1212	200	2000	55	21.52	16.21	193	5.99	3.55	20.3	0.82	NO
1217	↓	3000	↓	21.82	14.68	196	5.95	3.70	23.7	0.67	↓
1222	↓	4000	↓	21.87	14.59	197	5.92	3.45	22.3	0.52	↓
1227	↓	5000	↓	21.98	14.68	199	5.91	3.39	24.7	0.47	↓
1232	↓	6000	↓	22.03	14.58	200	5.89	3.39	24.4	0.39	↓

Constituents Sampled _____
 Check Boxes as appropriate: VOCs (8260B) _____
 Other (list): _____
 Other Notes: Primary stabilization parameters: _____
 pH ± 0.1 SU; Specific Conductance _____
 Turbidity: <10 NTU (or within 10% if <10 NTU not achievable) _____
 Drawdown target: < 0.3 feet below static _____
 Secondary water quality parameter: Dissolved Oxygen ±0.2 mg/L _____

Well Casing Volume Multipliers

Gallons/Foot	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	

Well Information
 Repairs Needed (List all): NONE
 Well Completion: Flush Mount / Stick Up
 Well Locked at Arrival: Yes / No
 Well Locked at Departure: Yes / No



Groundwater Sampling Form

WINDY/

Well ID MW-7

Weather PRTLY CLOUDY / 33°F

Date: 2/18/15

Project Name/Location Lafarge - East Point, GA

Project No. HT212446.0014

Total Well Depth (ft-BTOC) 62.5 Screen Interval (ft-BTOC) 47.5-61.5

Purge Time: Start: 1315 Sampled by: JR

Static Water Level (ft-BTOC) 18.72 Pump Intake (ft-BTOC) 54.5

End: 1350 Sample Time: 1355

Water Column (ft) 43.78

Purge Method: (circle one) low flow/low volume volume purge Volume Purged (ml or gal) 7000

Duplicate ID: —

Casing Volume Multiplier .16 Well Volume 7.00

Sample equipment (check one): Teflon Bladder Teflon-lined Tubing Teflon Bailer

Appearance (color/odor) CLEAR/NONE

Time	Purge Rate (gpm) or (ml/min)	Volume Purged (gal or mL)	Pump Intake (ft-BTOC)	Depth to Water (ft-BTOC)	Temperature (°C)	Specific Conductivity (µS/cm)	pH	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Purged Dry (yes or no) (enter depth purged dry)
1325	200	2000	54.5	20.22	12.40	160	6.11	2.17	46.0	6.71	NO
1330	200	3000	54.5	20.82	12.33	162	6.10	2.14	45.0	5.82	NO
1335	200	4000	54.5	21.23	12.67	178	6.09	1.95	43.7	4.31	NO
1340	200	5000	54.5	21.82	12.80	195	6.07	1.86	41.3	3.26	NO
1345	200	6000	54.5	21.85	12.77	201	6.08	1.85	39.2	2.83	NO
1350	200	7000	54.5	21.89	12.78	200	6.09	1.85	38.6	2.39	NO

Constituents Sampled

Check Boxes as appropriate:

- VOCs (8260B)
- Other (list):

Other Notes:

Primary stabilization parameters:
 pH ± 0.1 SU; Specific Conductance
 Turbidity: <10 NTU (or within 10% if <10 NTU not achievable)
 Drawdown target: < 0.3 feet below static
 Secondary water quality parameter: Dissolved Oxygen ±0.2 mg/L

Well Casing Volume Multipliers

Gallons/Foot	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	

Well Information

Repairs Needed (List all): NONE

Well Completion: Flush Mount / Stick Up

Well Locked at Arrival: Yes / No

Well Locked at Departure: Yes / No



Groundwater Sampling Form

WINDY

Well ID MW-8

Weather COLD, CLOUDY, 30°F

Date: 2/18/15

Project Name/Location Lafarge - East Point, GA

Project No. HT212446.0014

Total Well Depth (ft-BTOC) 39.30 Screen Interval (ft-BTOC) 29.0 - 38.3 Purge Time: Start: 1418 Sampled by: JR

Static Water Level (ft-BTOC) 19.83 Pump Intake (ft-BTOC) 33.5 End: 1453 Sample Time: 1455

Water Column (ft) 19.47 Purge Method: (circle one) low flow/low volume volume purge Volume Purged (mL or gal) 7000 Duplicate ID: —

Casing Volume Multiplier .16 Well Volume 312 Sample equipment (check one): Teflon Bladder Teflon-lined Tubing Teflon Bailor Appearance (color/odor) CLEAR/NONE

Table with 12 columns: Time, Purge Rate, Volume Purged, Pump Intake, Depth to Water, Temperature, Specific Conductivity, pH, Dissolved Oxygen, ORP, Turbidity, Purged Dry. Rows contain data for times 1429, 1433, 1438, 1443, 1448, 1453.

Constituents Sampled

Check Boxes as appropriate: VOCs (8260B) Other (list):

Other Notes: Primary stabilization parameters: pH ± 0.1 SU; Specific Conductance Turbidity: <10 NTU (or within 10% if <10 NTU not achievable) Drawdown target: < 0.3 feet below static Secondary water quality parameter: Dissolved Oxygen ±0.2 mg/L

Well Casing Volume Multipliers table with columns for Gallons/Foot and rows for 1", 1.25", 1.5", 2", 2.5", 3", 3.5", 4", 6" diameters.

Well Information

Repairs Needed (List all): NONE Well Locked at Arrival: Yes / No Well Locked at Departure: Yes / No Well Completion: Flush Mount / Stick Up

ARCADIS Groundwater Sampling Form

Well ID DPE-313
 Project Name/Location Lafarge - East Point, GA

Weather COLD, PARTLY CLOUDY
 Project No. HT212446.0014

Date: 2/18/15 / 2/19/15

Total Well Depth (ft-BTOC) 29 Screen Interval (ft-BTOC) —
 Static Water Level (ft-BTOC) 25.52 Pump Intake (ft-BTOC) 28.5
 Water Column (ft) 3.48
 Casing Volume Multiplier .65
 Well Volume 2.26

Purge Time: Start: 1730
 End: 1738

Sampled by: JR
 Sample Time: 2/19/15 @ 1100

Purge Method: (circle one)

low flow/low volume volume purged

Volume Purged (mL or gal) 7.5

Duplicate ID: —

Sample equipment (check one):

- Teflon Bladder
- Teflon-lined Tubing
- Teflon Bailor

Appearance (color/odor)

LT BROWN -> TO CLEAR
START FINISH
NO TURBID NO ODOR

2/19/15

Time	Purge Rate (gpm) or (ml/min)	Volume Purged (gal or mL)	Pump Intake (ft-BTOC)	Depth to Water (ft-BTOC)	Temperature (°C)	Specific Conductivity (µS/cm)	pH	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Purged Dry (yes or no) (enter depth purged dry)
STARTED PURGE @ 1730 @ ~ 2 GAL PM, @ 1738 WELL DRY W/											
v 7.5 GALS PURGED. ALLOW RECHARGE & SAMPLE ON 2/19/15. YES											
1100	—	^{2/18} 7.5	—	^{RECHARGED} 25.45	17.61	380	6.55	1.57	-109.3	165	NO

Constituents Sampled

Check Boxes as appropriate:

- VOCs (8260B)
- Other (list):

Other Notes:

Primary stabilization parameters:
 pH ± 0.1 SU; Specific Conductance
 Turbidity: <10 NTU (or within 10% if <10 NTU not achievable)
 Drawdown target: < 0.3 feet below static
 Secondary water quality parameter: Dissolved Oxygen ±0.2 mg/L

Well Casing Volume Multipliers

Gallons/Foot	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	

Well Information

Repairs Needed (List all): NONE

Well Completion: Flush Mount Stick Up

Well Locked at Arrival: Yes / No

Well Locked at Departure: Yes / No

ARCADIS Groundwater Sampling Form

Well ID DPE - 307

Weather COLD, PARTLY CLOUDY

Date: 2/18/15 / 2/19/15

Project Name/Location Lafarge - East Point, GA

Project No. HT212446.0014

Total Well Depth (ft-BTOC) 27.9 Screen Interval (ft-BTOC) —

Purge Time: Start: 1750

Sampled by: JR

Static Water Level (ft-BTOC) 24.15 Pump Intake (ft-BTOC) 27

End: 1755

Sample Time: 2/19/15 @ 1115

Water Column (ft) 3.75

Purge Method: (circle one)

low flow/low volume volume purge

Volume Purged (mL or gal) 7.5

Duplicate ID: —

Casing Volume Multiplier .65

Sample equipment (check one): Teflon Bladder Teflon-lined Tubing Teflon Bailor

Appearance (color/odor)

START LT GREY / RUBBER / VINYL
FAST TO CLEAR / SLEETURBED S WELL

Time	Purge Rate (gpm) or (ml/min)	Volume Purged (gal or mL)	Pump Intake (ft-BTOC)	Depth to Water (ft-BTOC)	Temperature (°C)	Specific Conductivity (µS/cm)	pH	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Purged Dry (yes or no) (enter depth purged dry)
<u>STARTED PURGE @ 1750 @ ~ 2.5 GPM, @ 1755 WELL DRY W/</u>											
<u>~ 7.5 GALS PURGED. ALLOW RECHARGE & SAMPLE ON 2/19/15.</u>											
<u>2/19/15</u>	<u>—</u>	<u>2/18 7.5</u>	<u>24.00</u>	<u>24.00</u>	<u>18.20</u>	<u>265</u>	<u>6.41</u>	<u>3.40</u>	<u>-57.1</u>	<u>333</u>	<u>LT BROWN</u>
<i>[Large handwritten scribble]</i>											

Constituents Sampled

Check Boxes as appropriate:

- VOCs (8260B)
- Other (list): _____

Other Notes:

Primary stabilization parameters:
 pH ± 0.1 SU; Specific Conductance _____
 Turbidity: <10 NTU (or within 10% if <10 NTU not achievable) _____
 Drawdown target: < 0.3 feet below static _____
 Secondary water quality parameter: Dissolved Oxygen ±0.2 mg/L _____

Well Casing Volume Multipliers

Gallons/Foot	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	

Well Information

Repairs Needed (List all): <u>NONE</u>	Well Locked at Arrival: <u>Yes</u> / No
Well Completion: <u>Flush Mount</u> / Stick Up	Well Locked at Departure: <u>Yes</u> / No



Appendix I

Soil Boring Logs

Borehole and Well Construction Log

 Well ID SB-143
 Date Begin 1-14-15
 Date End 1-14-15

 Contractor/Driller Atlas Geo
 Rig Type Truck
 Method DPT

 Total Depth Drilled 24
 Sample Method/Size _____
 Cutting Disposal Drum

Well Construction Log		Borehole Log			FL Rec.	Blow Count	PI (ppm)	
		Depth (ft)	Spl Run	Class	Description			
Time Begin: <u>NA</u> End: <u>NA</u>					Time Begin: <u>10:50</u> End: <u>11:25</u>			
Construction Intervals (ft BGS) Riser: <u>NA</u> Screen: <u>NA</u> Surf. Seal: <u>NA</u> Seal: <u>NA</u> Filter Pack: <u>NA</u> Backfill: <u>NA</u>					0-2 <u>Concrete</u>	2	NA	
Materials Riser: <u>NA</u> Screen: <u>NA</u> Surf. Seal: <u>NA</u> Seal: <u>NA</u> Filter Pack: <u>NA</u> Backfill: <u>Bentonite</u>					2-3 <u>Red Clayey Silt, Consolidated, Micaceous</u>	2	0.5	
Surface Completion Protection: <u>NA</u> Pad: <u>NA</u> Lock: <u>NA</u> Date/Time: <u>NA</u>					3-8 <u>Sandy Silt, Consolidated, Micaceous</u> <u>Mudstone, Tan</u>	2	0.6	
ARCADIS G&M Personnel Field Work: <u>Mark Myers</u> Log Draft: <u>Mark Myers</u>					8-12 <u>Sandy Silt, Consolidated, Micaceous</u> <u>Mudstone, Tan</u>	2	0.4	
Symbols Grout: Bentonite: Sand: Gravel: Backfill: X Contact: _____ Implied or Gradational Contact: - - - - -					12-23 <u>Soft Clayey Silt, Consolidated, Micaceous, Tan</u>	2	0.4	
					23-24 <u>Consolidated Tan Micaceous Silt, Blue Tan Mudstone</u>	2	0.3	
					24-25 <u>Refract @ 24'</u>	2	0.2	

Borehole and Well Construction Log

 Project No. HT212516.0003

 Site Location East Point, GA

 Well ID 5B-148
 Date Begin 1/14/15
 Date End 1/14/15

 Contractor/Driller Atlas Geo
 Rig Type _____
 Method DPT

 Total Depth Drilled 23
 Sample Method/Size _____
 Cutting Disposal Drum

Well Construction Log		Depth (ft)	Spl Run	Class	Borehole Log	Ft. Rec.	Blow Count	PID (ppm)
					Description			
Time Begin: <u>NA</u> End: <u>NA</u>					Time Begin: <u>1425</u> End: <u>1450</u>			
Construction Intervals (ft BGS) Riser: <u>NA</u> Screen: <u>NA</u> Surf. Seal: <u>NA</u> Seal: <u>NA</u> Filter Pack: <u>NA</u> Backfill: <u>NA</u>		0			0-9 Red Clayey Silt w/ head, Moist Micaceous, Some Qtz Sand			0.9
Materials Riser: <u>NA</u> Screen: <u>NA</u>		1						
Surf. Seal: <u>NA</u> Seal: <u>NA</u> Filter Pack: <u>NA</u> Backfill: <u>NA</u>		2						1703
Surface Completion Protection: <u>NA</u> Pad: <u>NA</u> Lock: <u>NA</u> Date/Time: <u>NA</u>		3						
ARCADIS G&M Personnel Field Work: <u>Mark Myers</u> Log Draft: <u>Mark Myers</u>		4						
Symbols Grout: Bentonite: Sand: Gravel: Backfill: Contact: _____ Implied or Gradational Contact: - - - - -		5						1459
		6						436
		7						
		8						5.4
		9						
		10			9-14 Tan Clayey Silt, Heavy Micaceous, (consolidated), Some white sand, and Bands of clay + Bentonite Prev Manganese			6.7
		11						
		12						
		13						30
		14						23
		15						
		16						430
		17						
		18			18-20 Just Tan Clayey Silt Dense Brown + Tan Clayey Silt of some Qtz Sand and Bands of Bentonite, Extremely Micaceous			477.1
		19						
		20						4420
		21			21-23 Heavy / Silver Clayey Silt w/ Qtz Sand, Extremely Micaceous			736
		22						
		23						
		24						
		25						

Borehole and Well Construction Log

 Project No. HT212516.0003

 Site Location East Point, GA

 Well ID SP-147
 Date Begin 1/14/15
 Date End 1/14/15

 Contractor/Driller Atlas Geo
 Rig Type Tower
 Method DPT

 Total Depth Drilled _____
 Sample Method/Size _____
 Cutting Disposal Drum

Well Construction Log		Depth (ft)	Sp/Run	Class	Borehole Log	Fl. Rec.	Blow Count	PID (ppm)
					Description			
Time Boring Dia.					Time Begin: <u>14:50</u> End: <u>14:10</u>			
Begin: <u>NA</u> End: <u>NA</u>		0			0-5 Dark Sandy Silt of coarse grain, Unconsolidated Unconsolidated gravel			3100
Construction Intervals (ft BGS) Riser: <u>NA</u> Screen: <u>NA</u> Surf. Seal: <u>NA</u> Seal: <u>NA</u> Filter Pack: <u>NA</u> Backfill: <u>NA</u>		1			1-5 Dark Silt Clayey Silt Very Fine Consolidated			15.3
Materials Riser: <u>NA</u> Screen: <u>NA</u>		2						
Surf. Seal: <u>NA</u> Seal: <u>NA</u> Filter Pack: <u>NA</u> Backfill: <u>NA</u>		3						
Materials Riser: <u>NA</u> Screen: <u>NA</u>		4						
Surf. Seal: <u>NA</u> Seal: <u>NA</u> Filter Pack: <u>NA</u> Backfill: <u>Bentonite</u>		5			6-9 Red Clayey Silt Very Fine Consolidated			1.8
Surface Completion Protection: <u>NA</u> Pad: <u>NA</u> Lock: <u>NA</u> Date/Time: <u>NA</u>		6						
ARCADIS G&M Personnel Field Work: <u>Mark Myers</u> Log Draft: <u>Mark Myers</u>		7						
Symbols Grout: Bentonite: Sand: Gravel: Backfill:		8						
Contact: Implied or Gradational Contact:		9			9-14 Dark Clayey Silt, Very Micaceous, Bands of Brittle Breccia Consolidated			0.3
		10						0.5
		11						0.4
		12						0.4
		13						0.4
		14			14-24 Same as Above of gravel ^{gravel} gravel ^{gravel} at base Sand in center			0.4
		15						0.4
		16						0.4
		17						0.5
		18						0.2
		19						232
		20						2
		21						
		22						
		23						
		24						
		25						

Borehole and Well Construction Log

Project No. HT212516.0003

Site Location East Point, GA

Well ID S13-145
 Date Begin 1/14/15
 Date End 1/14/15

Contractor/Driller Atlas Geo
 Rig Type Terra
 Method DPT

Total Depth Drilled 14.5
 Sample Method/Size PT
 Cutting Disposal Drum

Well Construction Log		Depth (ft)	Spl Run	Class	Borehole Log	Fl. Rec.	Blow Count	PID (ppm)
					Description			
Time Boring Dia. Time Begin: <u>NA</u> End: <u>NA</u>					Time Begin: <u>1400</u> End: <u>1430</u>			
Construction Riser: <u>NA</u> Screen: <u>NA</u> Surf. Seal: <u>NA</u> Seal: <u>NA</u> Filter Pack: <u>NA</u> Backfill: <u>NA</u>		0			0-1. Dark Sandy Silt, Unconsolidated w/ some sand. Loose			
Intervals (ft BGS) Riser: <u>NA</u> Screen: <u>NA</u> Surf. Seal: <u>NA</u> Seal: <u>NA</u> Filter Pack: <u>NA</u> Backfill: <u>NA</u>		1			1-10, Red Clayey Silt, Consolidated, Fine, Dense, Uniform, Micaceous			0.2
Materials Riser: <u>NA</u> Screen: <u>NA</u> Surf. Seal: <u>NA</u> Seal: <u>NA</u> Filter Pack: <u>NA</u> Backfill: <u>Bentonite</u>		2			10-17, Tan Clayey Silt, Consolidated, Micaceous, some streaks of sand			0.3
Surface Completion Protection: <u>NA</u> Pad: <u>NA</u> Lock: <u>NA</u> Date/Time: <u>NA</u>		3			17-14.5, Clayey Silt tan, extremely micaceous			0.3
ARCADIS G&M Personnel Field Work: <u>Mark Myers</u> Log Draft: <u>Mark Myers</u>		4						
Symbols Grout:  Bentonite:  Sand:  Gravel:  Backfill: <u>X</u> Contact: <u>Implied or Gradational Contact</u>		5						
		6						
		7						
		8						
		9						
		10						
		11						
		12						
		13						
		14						
		15						
		16						
		17						
		18						
		19						
		20						
		21						
		22						
		23						
		24						
		25						

Borehole and Well Construction Log

 Project No. HT212516.0003

 Site Location East Point, GA

 Well ID S13-146
 Date Begin 11/14/15
 Date End 11/14/15

 Contractor/Driller Atlas Geo
 Rig Type Treco
 Method DPT

 Total Depth Drilled 19
 Sample Method/Size _____
 Cutting Disposal Drum

Well Construction Log		Depth (ft)	Spl/Run	Class	Borehole Log	Fl. Rec.	Blow Count	PID (ppm)
					Description			
Time Begin: <u>NA</u> End: <u>NA</u>					Time Begin: <u>1430</u> End: <u>1445</u>			
Construction Intervals (ft BGS) Riser: <u>NA</u> Screen: <u>NA</u> Surf. Seal: <u>NA</u> Seal: <u>NA</u> Filter Pack: <u>NA</u> Backfill: <u>NA</u>		0			0-2 Dark unconsolidated sand of some silt lower part	03		921
Materials Riser: <u>NA</u> Screen: <u>NA</u>		1						
Surf. Seal: <u>NA</u> Seal: <u>NA</u> Filter Pack: <u>NA</u> Backfill: <u>Bentonite</u>		2			2-4 Dark consolidated clayey silt Moist			1.1
Surface Completion Protection: <u>NA</u> Pad: <u>NA</u> Lock: <u>NA</u> Date/Time: <u>NA</u>		3						
ARCADIS G&M Personnel Field Work: <u>Mark Myers</u> Log Draft: <u>Mark Myers</u>		4						24
Symbols Grout: Bentonite: Sand: Gravel: Backfill: X		5						
		6						03
		7						
		8						05
		9						
		10			9-13 Tan Clayey Silt, very micaceous, consolidated. Banding present Moist			04
		11						
		12						05
		13			13-14 Large Band of Qtz Sand Consolidated			
		14						03
		15			14-18 Tan Wet Clayey Silt of micaceous consolidated Moist			
		16						05
		17						
		18			18-19 Red / Brown, Fine clay of sand, very dense, very hard Revised @ 19			05
		19						
		20						
		21						
		22						
		23						
		24						
		25						

Borehole and Well Construction Log

 Project No. HT212516.0003

 Site Location East Point, GA

 Well ID SB-149
 Date Begin 1/14/15
 Date End 1/14/15

 Contractor/Driller Atlas Geo
 Rig Type Truck Rig
 Method DPT

 Total Depth Drilled 25.4
 Sample Method/Size
 Cutting Disposal Drum

Well Construction Log		Depth (ft)	Spl Run	Class	Borehole Log	Fl. Rec.	Blow Count	P/D (ppm)
					Description			
Time Begin: <u>NA</u> End: <u>NA</u>					Time Begin: <u>1700</u> End: <u>1945</u>			
Construction Intervals (ft BGS) Riser: <u>NA</u> Screen: <u>NA</u> Surf. Seal: <u>NA</u> Seal: <u>NA</u> Filter Pack: <u>NA</u> Backfill: <u>NA</u>					0-1, Sandy Silt, Unconsolidated, Dense, loose micaceous, of some sand	1		4.0
Materials Riser: <u>NA</u> Screen: <u>NA</u>					1-9, Red Clayey Silt, Consolidated, micaceous Dense	1		
Surf. Seal: <u>NA</u> Seal: <u>NA</u> Filter Pack: <u>NA</u> Backfill: <u>NA</u>						2		0.4
Materials Riser: <u>NA</u> Screen: <u>NA</u>						2		0.5
Surf. Seal: <u>NA</u> Seal: <u>NA</u> Filter Pack: <u>NA</u> Backfill: <u>NA</u>						2		0.5
Materials Riser: <u>NA</u> Screen: <u>NA</u>						2		0.5
Surf. Seal: <u>NA</u> Seal: <u>NA</u> Filter Pack: <u>NA</u> Backfill: <u>NA</u>						2		0.4
Materials Riser: <u>NA</u> Screen: <u>NA</u>						2		0.5
Surf. Seal: <u>NA</u> Seal: <u>NA</u> Filter Pack: <u>NA</u> Backfill: <u>NA</u>					9-13, Tan Silty to Clayey Silt and Bands of Wh. Sand in 1" flow, Consolidated, Some Odor, micaceous	2		0.5
Materials Riser: <u>NA</u> Screen: <u>NA</u>						2		0.7
Surf. Seal: <u>NA</u> Seal: <u>NA</u> Filter Pack: <u>NA</u> Backfill: <u>Bentonite</u>						2		0.7
Surface Completion Protection: <u>NA</u> Pad: <u>NA</u> Lock: <u>NA</u> Date/Time: <u>NA</u>						2		0.9
Materials Riser: <u>NA</u> Screen: <u>NA</u>						2		1.4
Surf. Seal: <u>NA</u> Seal: <u>NA</u> Filter Pack: <u>NA</u> Backfill: <u>NA</u>						2		1.4
Materials Riser: <u>NA</u> Screen: <u>NA</u>						2		1.5
Surf. Seal: <u>NA</u> Seal: <u>NA</u> Filter Pack: <u>NA</u> Backfill: <u>NA</u>					13-18, Sandy Silt with some clay Clayey Silt of some sand, Consolidated hardening, Extremely micaceous	2		1.5
Materials Riser: <u>NA</u> Screen: <u>NA</u>						2		1.1
Surf. Seal: <u>NA</u> Seal: <u>NA</u> Filter Pack: <u>NA</u> Backfill: <u>NA</u>						2		1.3
Materials Riser: <u>NA</u> Screen: <u>NA</u>						2		0.4
Surf. Seal: <u>NA</u> Seal: <u>NA</u> Filter Pack: <u>NA</u> Backfill: <u>NA</u>						2		0.4

ARCADIS G&M Personnel

 Field Work: Mark Myers
 Log Draft: Mark Myers

Symbols

- Grout:
- Bentonite:
- Sand:
- Gravel:
- Backfill: X
- Contact:
- Implied or Gradational Contact:

Borehole and Well Construction Log

Project Lafarge Rd Marking, EP

Page 1 of 1

Project No. HT212516.0003

Site Location East Point, GA

Well ID CPB-148
 Date Begin 11/5/15
 Date End 11/5/15

Contractor/Driller Atlas Geo
 Rig Type Trac
 Method DPT

Total Depth Drilled 24
 Sample Method/Size 14'
 Cutting Disposal Drum

Well Construction Log		Depth (ft)	Spl Run	Class	Borehole Log	Fl. Rec.	Blow Count	PID (ppm)
<p>Time</p> <p>Begin: <u>NA</u></p> <p>End: <u>NA</u></p>					<p>Time Begin: <u>0050</u></p> <p>End: <u> </u></p>			
<p>Construction</p> <p>Intervals (ft BGS)</p> <p>Riser: <u>NA</u></p> <p>Screen: <u>NA</u></p> <p>Surf. Seal: <u>NA</u></p> <p>Seal: <u>NA</u></p> <p>Filter Pack: <u>NA</u></p> <p>Backfill: <u>NA</u></p>								
<p>Materials</p> <p>Riser: <u>NA</u></p> <p>Screen: <u>NA</u></p> <p>Surf. Seal: <u>NA</u></p> <p>Seal: <u>NA</u></p> <p>Filter Pack: <u>NA</u></p> <p>Backfill: <u>Bentonite</u></p>								
<p>Surface Completion</p> <p>Protection: <u>NA</u></p> <p>Pad: <u>NA</u></p> <p>Lock: <u>NA</u></p> <p>Date/Time: <u>NA</u></p>								
<p>ARCADIS G&M Personnel</p> <p>Field Work: <u>Mark Myers</u></p> <p>Log Draft: <u>Mark Myers</u></p>								
<p>Symbols</p> <p>Grout: </p> <p>Bentonite: </p> <p>Sand: </p> <p>Gravel: </p> <p>Backfill: </p> <p>Contact: </p> <p>Implied or Gradational Contact: </p>								
		0			<u>MB 0-9, Red Clayey Silt, Micaceous Consolidated</u>			<u>0.1</u>
		1						<u>0.1</u>
		2						<u>0.1</u>
		3						<u>0.1</u>
		4						<u>0.1</u>
		5				<u>4</u>		<u>0.1</u>
		6						<u>0.1</u>
		7						<u>0.1</u>
		8						<u>0.1</u>
		9				<u>4</u>		<u>0.2</u>
		10			<u>MB 9-21, Tan Clayey Silt, Very Micaceous w/ some fine sand, Consolidated</u>			<u>0.1</u>
		11						<u>0.1</u>
		12						<u>0.1</u>
		13				<u>58</u>		<u>0.2</u>
		14						<u>0.2</u>
		15						<u>0.2</u>
		16				<u>4</u>		<u>0.3</u>
		17						<u>0.1</u>
		18						<u>0.1</u>
		19						<u>0.1</u>
		20				<u>4</u>		<u>0.2</u>
		21						<u>0.1</u>
		22			<u>MB 21-24, Gray to Clayey Silt, w/ Extensive Micaceous</u>			<u>11.4</u>
		23						<u>0.1</u>
		24						<u>0.1</u>
		25						<u>0.1</u>

Borehole and Well Construction Log

 Project No. HT212516.0003

 Site Location East Point, GA

 Well ID S13-150
 Date Begin _____
 Date End _____

 Contractor/Driller Atlas Geo
 Rig Type _____
 Method DPT

 Total Depth Drilled 24
 Sample Method/Size _____
 Cutting Disposal Drum

Well Construction Log		Depth (ft)	Spl Run	Class	Borehole Log	Ft. Rec.	Blow Count	PID (ppm)
					Description			
Time Begin: <u>NA</u> End: <u>NA</u>					Time Begin: <u>0930</u> End: <u>1000</u>			
Construction Intervals (ft BGS) Riser: <u>NA</u> Screen: <u>NA</u> Surf. Seal: <u>NA</u> Seal: <u>NA</u> Filter Pack: <u>NA</u> Backfill: <u>NA</u>					0-2, Dark Clayey Silt, w/ rust & organic material	4	0.1	
Materials Riser: <u>NA</u> Screen: <u>NA</u>					2-9, Red clayey silt, comp, micaceous			0.3
Surf. Seal: <u>NA</u> Seal: <u>NA</u>						4	0.8	
Filter Pack: <u>NA</u> Backfill: <u>NA</u>								0.3
Materials Riser: <u>NA</u> Screen: <u>NA</u>						4	0.2	
Surf. Seal: <u>NA</u> Seal: <u>NA</u>					9-20, Tan clayey silt, w/ micaceous longitudinal			0.2
Filter Pack: <u>NA</u> Backfill: <u>Bentonite</u>						3	0.4	
Surface Completion Protection: <u>NA</u> Pad: <u>NA</u> Lock: <u>NA</u> Date/Time: <u>NA</u>								0.9
ARCADIS G&M Personnel Field Work: <u>Mark Myers</u> Log Draft: <u>Mark Myers</u>						3.5	112.8	
Symbols Grout: Bentonite: Sand: Gravel: Backfill: Contact:						4	10.7	
					2-24, Heavy clayey silt, longitudinal Ex. locally micaceous beds of white, sand etc sand			4.5
					Rebed 0-24			

Well ID S13-151
 Date Begin 11/5/15
 Date End 11/5/15

Contractor/Driller Atlas Geo
 Rig Type Track
 Method DPT

Total Depth Drilled 23
 Sample Method/Size _____
 Cutting Disposal Drum

Well Construction Log		Depth (ft)	Spl Run	Class	Borehole Log Description	Ft. Rec.	Blow Count	PID (ppm)
Time Begin: <u>NA</u> End: <u>NA</u>					Time Begin: <u>10:35</u> End: <u>11:20</u>			
Construction Intervals (ft BGS) Riser: <u>NA</u> Screen: <u>NA</u> Surf. Seal: <u>NA</u> Seal: <u>NA</u> Filter Pack: <u>NA</u> Backfill: <u>NA</u>		0			SM 0-1. Brown Silty Silt w/ Gravel Unconsolidated, Moist			
Materials Riser: <u>NA</u> Screen: <u>NA</u>		1			1-10; Red Clayey Silt, consolidated, Micaceous			0.1
Surface Completion Protection: <u>NA</u> Pad: <u>NA</u> Lock: <u>NA</u> Date/Time: <u>NA</u>		2						0.2
ARCADIS G&M Personnel Field Work: <u>Mark Myers</u> Log Draft: <u>Mark Myers</u>		3						
Symbols Grout: Bentonite: Sand: Gravel: Backfill: Contact: _____ Implied or Gradational Contact: - - - - -		4				4		1.4
		5						
		6						
		7						6.7
		8				35		41.3
		9						
		10			MM 10-13, Dark Clayey Silt, w/ 50% Bentonite, Exposed Micaceous			133.9
		11						
		12				35		229.4
		13			MM 13-23, Gray, Clayey Silt, Micaceous w/ Qtz Sand Mass, Consolidated			
		14						476.2
		15						
		16						
		17				4		262.9
		18						
		19						152
		20				25		38
		21						
		22						
		23			Bottom @ 23'			4.8
		24						
		25						



Borehole and Well Construction Log

Project No. HT212516.0003

Site Location East Point, GA

Well ID SB-153
 Date Begin 11/5/15
 Date End 11/5/15

Contractor/Driller Atlas Geo
 Rig Type Tracker
 Method DPT

Total Depth Drilled 24
 Sample Method/Size _____
 Cutting Disposal Drum

Well Construction Log		Depth (ft)	Spl Run	Class	Borehole Log	Fl. Rec.	Blow Count	PID (ppm)
					Description			
Time Begin: <u>NA</u> End: <u>NA</u>								
Construction Intervals (ft BGS) Riser: <u>NA</u> Screen: <u>NA</u> Surf. Seal: <u>NA</u> Seal: <u>NA</u> Filter Pack: <u>NA</u> Backfill: <u>NA</u>								
Materials Riser: <u>NA</u> Screen: <u>NA</u> Surf. Seal: <u>NA</u> Seal: <u>NA</u> Filter Pack: <u>NA</u> Backfill: <u>Bentonite</u>								
Surface Completion Protection: <u>NA</u> Pad: <u>NA</u> Lock: <u>NA</u> Date/Time: <u>NA</u>								
ARCADIS G&M Personnel Field Work: <u>Mark Myers</u> Log Draft: <u>Mark Myers</u>								
Symbols Grout: Bentonite: Sand: Gravel: Backfill: Contact: _____ Implied or Gradational Contact: - - - - -								
	Boring Dia. <u>4"</u>	0			0-4. Concrete and Gravel, No Sample	1		
		1						
		2				1		
		3						
		4						
		5			MIT 4-9. Red Clayey Silt, Micaceous, Loose Consolidated	3		0.5
		6						
		7						0.6
		8						
		9				4		0.9
		10			MIT 9-20. Tan Clayey Silt, Very Micaceous, some fine Sand, Consolidated			0.4
		11						
		12						
		13				4		0.8
		14						0.8
		15						
		16						
		17				3		0.7
		18						
		19						0.9
		20				3		1.0
		21						
		22						
		23			MIT 23-24. Same As Above w/ more bentonite			0.5
		24						
		25						