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Lafarge Road Marking, Inc.

# VOLUNTARY INVESTIGATION AND REMEDIATION PLAN – SEMIANNUAL PROGRESS REPORT #3

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

May 6, 2016

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**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.

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5/6/2016
Date

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Facility Name

Voluntary Investigation and Remediation Plan Semiannual Progress Report #3
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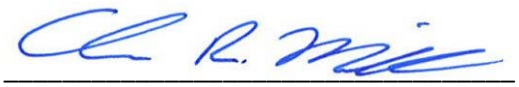

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# 1 INTRODUCTION

On behalf of Lafarge Road Marking, Inc. ("LRM"), Arcadis U.S., Inc. ("Arcadis") is submitting this Voluntary Investigation and Remediation Plan ("VIRP") – Semiannual Progress Report #3 ("Progress Report") to the Georgia Environmental Protection Division ("EPD") for LRM's former road painting manufacturing facility located at 2675 North Martin Street in East Point, Georgia ("Site"). This Progress Report covers the period from October 2015 through March 2016 ("Report Period").

Although the Site is now owned by Kairos Development Corporation, LRM is continuing to implement the VIRP at this time. This Progress Report has been prepared to meet requirements outlined in the Georgia Voluntary Remediation Program Act ("VRPA") and the EPD Consent Order No. EPD-VRP-009, issued on August 6, 2014.

# 2 BACKGROUND

LRM submitted a Voluntary Remediation Plan ("VRP") application to the EPD on May 24, 2010. On June 18, 2013, EPD requested that LRM submit a revised application 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. On March 14, 2014, EPD issued a letter to LRM confirming that the Site was eligible for enrollment in the VRP and provided a proposed Consent Order. On August 6, 2014, the EPD executed Consent Order EPD-VRP-009, which superseded the previous Consent Order EPD-HW-562 and approved the entry of the Site into the VRP. In accordance with Consent Order EPD-VRP-009, the first semiannual VRP Progress Report was submitted to the EPD on April 30, 2015, which summarized the following: 1) the past source soil removal; 2) the installation of a new air sparging ("AS") soil vapor extraction ("SVE") dual-phase extraction ("DPE") treatment system ("AS/SVE/DPE"); 3) the plan for the operation, maintenance, and monitoring of the treatment systems; and 4) additional well installations on the Site. The second Progress Report was submitted to the EPD on October 30, 2015, and provided an update on remediation progress and finalized delineation of hazardous constituents in soil.

From April to October 2013, the AS/SVE/DPE was installed and remains in operation. Further information regarding the treatment system is included in Section 4.3 of this Progress Report.

**Figure 1** presents the location of the Site on a topographic map of the area. **Figure 2** is a Site map illustrating the Site layout and monitoring and recovery well locations.

# 3 CONSTITUENTS OF CONCERN AND RISK REDUCTION STANDARDS

The 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 historically detected above the Type 1/2 Risk Reduction Standards ("RRS"). EPD approved the RRS in a letter dated September 3, 2015. COCs are as follows:

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

**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, ethylbenzene, and toluene.

There have been no modifications to RRSs during the Report Period. The COCs and respective groundwater and soil RRSs are shown in the following table.

| Constituent of Concern | Groundwater Type 1 RRS (µg/L) | Groundwater Type 4 RRS (µg/L) | Soil Type 2 RRS (mg/kg) | Soil Type 4 RRS (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 (total) | 10,000 | 10,000 | 340 | 354 |
| Lead | 15 | 15 | 270 | 400 |

NA = not applicable
µg/L = micrograms per liter
mg/kg = milligrams per kilogram

# 4 SUMMARY OF WORK COMPLETED THIS PERIOD

## 4.1 Groundwater Assessment

### 4.1.1 Overview

Groundwater sampling was conducted in November 2015. This sampling event consisted of collecting water-level measurements and collecting groundwater samples from 43 monitoring and recovery wells outlined in **Table 1**. Well construction details are provided in **Table 2**.

### 4.1.2 Groundwater Sampling Methodology

A peristaltic pump and low-flow, low-purge volume sampling methodologies following the United States Environmental Protection Agency ("EPA") Region 4 Science and Ecosystem Support Division ("SESD") operating procedures, dated March 6, 2013, were used for groundwater sampling to ensure that a representative sample was 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 the static water level prior to and during the purging process. Depth-to-water measurements and groundwater elevations are summarized in **Table 2**.

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 included dissolved oxygen ("DO") measurements within 0.2 milligram per liter. Groundwater samples were collected following the EPA-accepted "soda straw" sampling method when water quality parameters had been reached. Well purging and sampling logs from the November 2015 sampling events are provided in **Appendix A**.

The groundwater samples collected in November 2015 were analyzed for VOCs by EPA Method 8260B, and samples from wells MW-2, MW-3, MW-4, MW-5R, MW-17, MW-30, and MW-31 were also analyzed for lead by EPA Method 6020.

### 4.1.3 Groundwater Flow Data

As illustrated on **Figure 3**, the direction of groundwater flow across the Site was to the east-northeast during the November 2015 gauging event, consistent with previous measurements.

### 4.1.4 Groundwater Sampling Results

The results of the November 2015 sampling event indicate that the most VOC-impacted groundwater is located near the former hazardous waste drum storage area. Lead concentrations were below laboratory

detection limits in each of the samples analyzed. The current constituents that exceed their respective Type 4 RRSs as of the November 2015 monitoring event are benzene, cis-1,2-DCE, TCE, and VC. Laboratory analytical reports for the November 2015 monitoring event are included in **Appendix B**. The analytical results for organics and lead are summarized in **Table 3a** and **Table 3b**, respectively. Illustrations of the distribution of chlorinated VOCs ("CVOCs") and BTEX compounds are provided as **Figure 4a** and **Figure 4b**, respectively.

Additional monitoring wells for offsite delineation are planned for the next reporting period. Details are provided in Section 6.

## 4.2 Off-Site Groundwater Delineation

### 4.2.1 Overview

New monitoring wells were installed during the reporting period to provide additional off-site delineation for VOCs. The following sections provide further details of installation techniques and the analytical results of groundwater sampling.

### 4.2.2 December 2015 Monitoring Well Installation

Two groundwater monitoring wells (MW-37 and MW-38) were installed in December 2015 as illustrated on **Figure 2**. Boreholes were advanced via hollow stem augers to approximately 8 feet below the top of the water table. The total depths of wells MW-37 and MW-38 were 25 and 26 feet bgs, respectively. The monitoring wells were constructed using threaded-joint, Schedule 40, polyvinyl chloride ("PVC") well casing and screen materials. Each well was fitted with a 10-foot-long, 0.010-inch, machine-slotted well screen. The screens were attached to solid PVC riser material that extends to the ground surface. The annular space surrounding the well screen was filled with clean #1 grade silica sand to 2 feet above the well screen section. A 2-foot-thick, hydrated bentonite pellet seal was placed in the borehole above the sand. Bentonite grout was pumped into the annular space between the PVC casing and native material until it reached the ground surface, and each well was completed in a flush-mounted, watertight, bolt-down traffic-bearing manhole and concrete pad assembly. Watertight locking caps were fitted to each well.

### 4.2.3 February 2016 Monitoring Well Installation

Three groundwater monitoring wells (TW-01, TW-02, and TW-03) were installed in in February 2016 at locations illustrated on **Figure 2**. One of the wells, TW-03, was installed within the City of East Point right-of-way. Several attempts were made to procure a property access agreement for the former Veterans of Foreign Wars ("VFW") building located at 2626 VFW Way in East Point, Georgia, to install a monitoring well; however, property access was not granted. Furthermore, the City of East Point right-of-way between Norman Berry Drive and the former VFW property has limited access and is not of sufficient size to safely advance a boring.

At each location, the 0- to 5-foot depth interval was cleared for utilities using a decontaminated steel hand auger. Boreholes were advanced to a total depth between 17 feet bgs at the location of well TW-03 and

40 feet bgs at the location of well TW-02. Direct-push technology ("DPT") was used to install the wells. DPT units are hydraulically powered, percussion/probing machines designed to drive small-diameter sampling tools directly into the subsurface with minimal production of investigation-derived waste. The wells were constructed using dual-core DPT tooling following guidance provided in Design and Installation of Monitoring Wells, SESDGUID-101-R1 (USEPA 2013). Each well was constructed of ¾-inch-diameter PVC equipped with 10 feet of 0.010-inch machine-slotted, pre-packed well screen. The screened interval ranged from 15 to 25 feet bgs at well TW-01, 30 to 40 feet bgs at well TW-02, and 7 to 17 feet bgs at well TW-03. The remaining annular space surrounding the pre-pack filter was filled with clean #1 grade silica sand until the sand was approximately 2 feet above the pre-pack well screen as the DPT tooling was slowly removed from the borehole. Non-coated bentonite pellets were placed above the sand pack and were hydrated with approximately 1 quart of potable water for each 1-foot lift of pellets to effectively seal the borehole. No grout or permanent surface terminations (vault, stick-up protective cover, etc.) were constructed at the time of installation; however, the well heads will be completed when additional assessment work is completed this coming reporting period.

### 4.2.4 Groundwater Delineation Sampling and Analytical Results

The new off-site monitoring wells installed in December 2015 (MW-37 and MW-38) and in February 2016 (TW-01 through TW-03) were purged and samples were collected at least 24 hours after development. Sampling was performed in accordance with the methodology outlined in Section 4.1.2. The groundwater results are illustrated on **Figures 4a** and **4b**.

The groundwater analytical results for well MW-38, which was installed downgradient and east of the Site (across North Martin Street), were below laboratory detection limits and/or Type 1 RRSs for each constituent analyzed with the exception of TCE. TCE was detected in well MW-38 at 5.5 µg/L, which is slightly above the Type 1 RRS of 5 µg/L.

Results for each of the analyzed constituents in groundwater samples from well TW-02, installed to the north of the Site, were below laboratory detection limits.

The groundwater analytical results for well TW-03, which was installed hydraulically downgradient and northeast of the Site, were below laboratory detection limits. Well TW-03 was installed within the City of East Point right-of-way due to the inability to procure a property access agreement, and its location was selected to avoid underground utilities to the north and south.

Groundwater analytical results for well TW-01, installed northeast and downgradient of well TW-02, slightly exceeded the Type 2 RRS for cis-1,2,-DCE (detection of 92 µg/L compared to RRS of 70 µg/L), TCE (detection of 8.2 µg/L compared to RRS of 5 µg/L), and PCE of 5 µg/L.

Results for well MW-37, located within the groundwater plume, indicated detections of cis-1,2-DCE and TCE at levels above the Type 1 RRSs.

## 4.3 Air Sparging/Soil Vapor Extraction/Dual-Phase Extraction Remediation System Operation

The following sections provide operational details of the AS/SVE/DPE system. The layout of the AS/SVE/DPE remediation wells is illustrated on **Figure 5**.

### 4.3.1 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; and
- Vacuum, flow rate, and concentrations of recovered vapors before and after treatment.

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

### 4.3.2 AS System

The AS system operated with two zones on a cycle of 6 hours on and 6 hours off and corresponded to the operation of the SVE system zones. From September 3, 2015 through November 25, 2015, AS Zones 100 and 200 operated to correspond with SVE Zones 1 and 2, and on November 25, 2015, the system was switched to operate with AS Zones 300 and 400 to correspond with SVE Zones 3 and 4. On January 8, 2016, the system was switched back to operate with AS Zones 100 and 200 to correspond with SVE Zones 1 and 2. Additionally, the system was switched on February 16, 2016 to operate continuously with Zones 3 and 4, and on March 25, 2016, the system was switched to operate with Zones 1 and 2. The average flow rate to the AS wells was approximately 2 standard cubic feet per minute ("scfm") at a wellhead pressure of up to 17 pounds per square inch ("psi").

### 4.3.3 SVE System

The SVE system operated continuously with Zones 1 and 2 from September 2, 2015 through November 25, 2015. On November 25, 2015, the system was switched to operate continuously with Zones 3 and 4, and on January 8, 2016, the system was switched to operate with Zones 1 and 2. Additionally, the system was switched on February 16, 2016 to operate continuously with Zones 3 and 4, and on March 25, 2016, the system was switched to operate with Zones 1 and 2. The average flow rate for each SVE well was approximately 10 scfm with a corresponding vacuum of approximately 1 inch of mercury (Hg) at the wellhead, and an average total flow rate of 250 scfm with a corresponding vacuum of 2 inches of Hg at the blower.

The laboratory analytical data are summarized in **Table 4**, and the laboratory analytical reports are included in **Appendix B**.

### 4.3.4 Vapor Treatment System

Vapors from the SVE system continued to be treated by C3 Technology during the monitoring period. 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 granular-activated carbon ("GAC").

The results of the post-treatment vapor samples collected with the AS/SVE system operating indicated there were no detections of VOCs in the vapor stream being discharged to the atmosphere. The laboratory analytical data are summarized in **Table 4**, and the laboratory analytical reports are included in **Appendix B**.

### 4.3.5 DPE System

The DPE system operated continuously with five DPE wells and two monitoring wells (DPE-109, DPE-118, DPE-305, DPE-307, DPE-408, MW-07, and MW-32) through April 30, 2016. The DPE wells were not sampled during the recent reporting period with the exception of two monitoring wells, MW-7 and MW-32 that we converted for DPE use.

The laboratory analytical data are summarized in **Table 3a** and shown on **Figure 4a**. The laboratory analytical reports are included in **Appendix B**.

### 4.3.6 Mass Removal

The mass removal rate for the AS/SVE/DPE system is calculated by multiplying the average vapor concentrations prior to treatment by the flow rate of the SVE system. From startup through February 16, 2016, the SVE system recovered approximately 132,000 pounds of total VOCs, as detected using EPA Method TO-15. Between September 11, 2015 and February 16, 2016, the system recovered approximately 16,500 pounds of total VOCs. Laboratory analytical data from the system sampling are summarized in **Table 4**.

Additionally, the C3 Technology vapor treatment system generates approximately 3 gallons of product per day treating the recovered vapors from the SVE system. From June 4, 2015 through March 30, 2016, the C3 Technology vapor treatment system generated approximately 1,000 gallons of product, which was stored in the on-site chemical storage tank. The next disposal event will be scheduled for May 2016.

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

## 4.4 Groundwater Recovery and Treatment System Operation

### 4.4.1 Groundwater Recovery and Treatment System

There are six recovery wells (RW-02, RW-03, RW-04, RW-06, RW-07, and RW-08) that remain active. Treated water is discharged to the local sewer, which is piped to the publicly owned treatment works ("POTW").

During the Reporting Period, the groundwater treatment system operated 24 hours a day with the exception of brief (less than 8-hour) periods when the system was shut down for routine maintenance. During this period, the treatment system processed 2,619,550 gallons of groundwater at an average groundwater recovery rate of approximately 12.1 gallons per minute ("gpm") (**Table 5**).

In November 2015, water samples were collected from each of the six recovery wells (RW-02, RW-03, RW-04, RW-06, RW-07, and RW-08). The laboratory analytical data are summarized in **Table 3a** and shown on **Figure 4a**. The laboratory analytical reports are included in **Appendix B**.

### 4.4.2 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 183 pounds of total VOCs, as detected using EPA Method 8260B, were removed from groundwater between October 2015 and February 2016 (**Table 5**).

Given the relatively low mass recovery from the groundwater recovery and treatment system, as compared to the AS/SVE/DPE system, LRM will be terminating the operation of this system in May 2016.

# 5 CONCEPTUAL SITE MODEL

## 5.1 GEOLOGIC FEATURES COMMON TO THE PIEDMONT

### 5.1.1 Residual Soil Formation and the Weathering Profile

Residual soils in the Piedmont formations in Georgia are products of physical and chemical weathering of the underlying parent crystalline bedrock. Weathering generally decreases with depth below the ground surface, with a textural gradation from clay, silt, and sand-sized particles (soil) to Saprolite, where the structure of the parent rock is preserved. In other words, the bedding planes and interfaces of decomposed parent rock are maintained. An example of this weathering profile is provided in a soil core shown in the photograph below, taken from a site in Atlanta.

**Photograph of weathering progression of parent crystalline Piedment rock (top of core to the left).**

In the photograph, depth below ground surface goes from shallow to deep starting at the upper left hand corner moving down to the lower right hand corner. In the near-surface portion of the core, the soil is characterized by the unmistakable red clay of Georgia. The red clay transitions to a brown clay and then to a distinct Saprolite profile characterized by bands of browns, whites, and yellows, which retain the structure of the parent rock (brown/yellow coloration is a result of oxidation). This transitions to less chemically weathered material with the same coloration (gray) as the underlying crystalline rock.

Several weathering profile or classification schemes exist for the Piedmont. Sowers (1963) presented one of the original classification schemes composed of four zones based on relict structure and geotechnical properties, as follows:

- Soil — no relict structure; “Blow Count (N)” = 5-50
- Saprolite — exhibits relict parent rock structure; N = 5-50
- Partially weathered rock (PWR) — alternating hard & soft seams; N > 50
- Rock (or bedrock) — RQD (a core quality property) > 75%

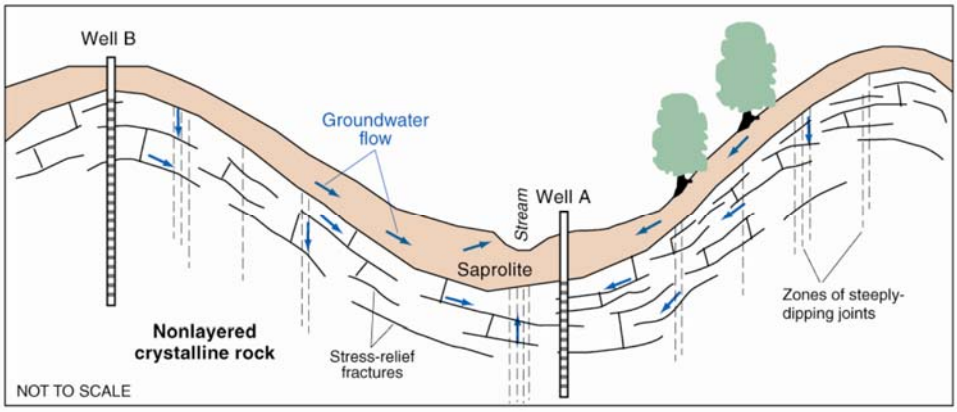
Wilson and Martin (1996) provide a chart of various classification schemes as shown below:

*Table 1. Classification systems of weathering profiles (from Wilson and Martin, 1996).*

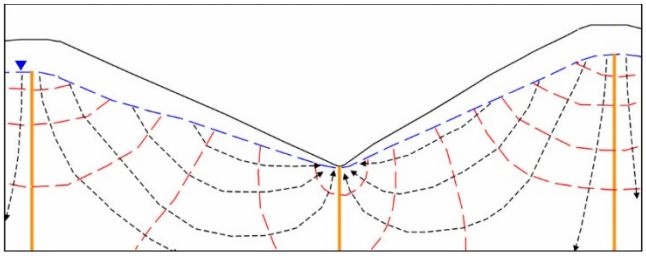
<table>
<tr><th>Sowers (1963)</th><th colspan="2">Deere & Patton (1971)</th><th>Law/MARTA (Richardson & White, 1980)</th><th>Schnabel Engineering Associates (from Martin, 1977)</th></tr>
<tr><td>Soil<br>N=5-50</td><td rowspan="2">I<br>Residual Soil</td><td>IA<br>A Horizon</td><td rowspan="2">Upper Horizon<br>No Residual Structure</td><td rowspan="2">Residual Soil<br>N < 60</td></tr>
<tr><td>Saprolite<br>N=5-50</td><td>IB<br>B Horizon</td></tr>
<tr><td rowspan="2">Partially Weathered Rock - Alternate Hard & Soft Seams<br>N>50</td><td rowspan="2">II<br>Weathered Rock</td><td>IC<br>C Horizon</td><td>Saprolite</td></tr>
<tr><td>IIA<br>Transition From Residual Soil to Partially Weathered Rock</td><td>Partially Weathered Rock<br>N>100<br>Core Recovery<50%</td><td rowspan="2">Disintegrated or partially weathered rock<br>N≥60</td></tr>
<tr><td>Rock<br>RQD>75%</td><td colspan="2">III<br>Unweathered Rock<br>RQD>75%</td><td>IIB<br>Partly Weathered Rock<br>Rock Core Recovery>50%<br>RQD<50%<br>Sound Rock<br>RQD>50%<br>Core Recovery>85%</td><td>Rock<br>N≥100/2”<br>Core For Confirmation</td></tr>
<tr><td colspan="5">RQD = Rock Quality Designation<br>N=Standard Penetration Test N-Value (blows/foot)</td></tr>
</table>

### 5.1.2 General Hydrogeologic Characteristics of the Piedmont

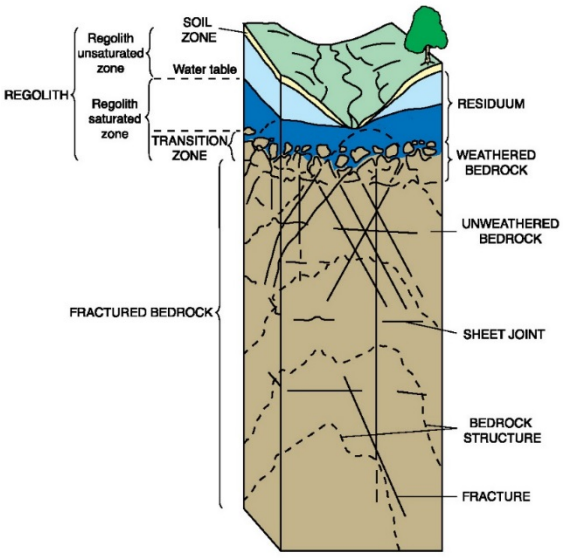
Groundwater is generally first encountered in the Saprolite under unconfined (i.e., water table) conditions. There is direct hydraulic communication between all of the four zones, however, flow within rock is entirely fracture-flow and on a local scale may be discontinuous. The general direction of groundwater flow in the Piedmont mimics the surface topography (although hydraulic gradients are not as abrupt as topographic gradients). Hydraulic gradients are generally downward in topographic high areas and upward in topographic low areas, especially along the more significant valley bottoms where the bedrock is more highly fractured and groundwater discharge provides the base flow for surface water present in the stream, i.e., the valley is a hydrologic divide (see illustration below, from Burton 2005).




***A.*** A **conceptual model** shows the influence of sheet fractures on groundwater flow in massive to weakly foliated rocks in Rockdale County. **Well A** is located in a topographically favorable position for intercepting recharge whereas **Well B** is located in a topographically less favorable position (Modified from McCollum, 1966).



Basic principles of groundwater flow in a ridge and valley setting are shown in the conceptual model schematic to the right. Equipotential lines (hydraulic head potential) are shown in dashed red lines, and groundwater flow direction occurs perpendicular to the equipotential as illustrated in dashed blue lines (the broader dashed blue line at the top is the groundwater table). Vertical yellow lines mark hydrologic boundaries. Groundwater exhibits a strong downward vertical hydraulic gradient at the ridge (topographic high point), and more dominant lateral hydraulic gradients occur midway along the flowpath with upward vertical hydraulic gradients at the valley bottom.




Groundwater flow within Saprolite and PWR behaves according to porous media hydrologic principals. PWR is generally considered as exhibiting the highest relative permeability of the four zones. The unweathered crystalline rock below the PWR exhibits essentially no primary porosity/permeability but rather relies upon secondary permeability features, such as joints (fractures) and faults, for the storage and transmission of groundwater. These secondary permeability features are generally of a relatively small aperture (opening) and also are not highly abundant; thus, this portion of the hydrogeologic system generally stores and contains significantly less groundwater compared to the same volume of PWR above. The degree of fracture development and the size of fracture apertures tend to decrease with depth as shown in the conceptual hydro-stratigraphic section to the above (Swain et al. 2004).

## 5.2 UPDATE TO THE SITE CSM

### 5.2.1 Local Area Geologic Setting

The LRM East Point site is located within the Greenville Slope District of the Southern Piedmont Physiographic Province. This geologic setting is characterized by metamorphic rocks of the Clarkston Formation of the Atlanta Group (Cressler et al. 1983). This Formation is comprised of biotite-muscovite schist inter-layered with hornblende-plagioclase amphibolite (McConnell and Abrams 1984). Deep in the subsurface, the Clarkston Formation is underlain by the Stonewall and Wahoo Creek Formations. These are similar in geologic characteristics to the Clarkston.

Available geologic information indicates that the local structure is genetically related to the Brevard Fault Zone (Cressler et al.1983). Other local area structural features include granite body intrusions in the parent bedrock and stress relief fracturing due to weathering and overburden removal.

### 5.2.2 Site Geologic Setting

The site geologic setting is complex and is the result of multi-phase deformation and tectonism. These forces caused joint fracture development in the rock. Differential weathering of the rock results from various factors including variability in orientation of foliations in the rock, geologic contacts between formations, and mineralogical variations. As a result of these variables and the varying degree of weathering, there is considerable variation in the thicknesses of the Saprolite and PWR.

A thorough review of all boring logs for the LRM site was conducted in the course of this CSM update. The majority of the drilling involved split-spoon soil sampling with Standard Penetration Testing (or blow counts) on 5 ft centers. Rock coring was performed on the majority of the deeper wells (more recent drilling used rotosonic methods, which do not provide a true undisturbed rock core necessary for a refined interpretation), and detailed logs are available describing the Core Recovery (REC) and Rock Quality Designation (RQD) for each core run (typically 10 ft). A revised interpretation of the geologic zone screened by each well as made, which is captured on Table 1 of this CSM. Saprolite extends at the LRM site to depths ranging from about 30 to 60 ft bgs. Note that many of the boring logs labeled material as “partially-weathered rock” but with a corresponding N value < 50; thus, the reinterpretation identifies this material as Saprolite to be consistent with the Sowers (1963) classification scheme. Previous interpretations of these logs also mistook auger refusal and/or the beginning of rock coring as indicative of the PWR/rock interface. This is not consistent with conventional classification schemes such as Sowers (1963), where the RQD (and by other schemes also the REC) are considered in discerning between PWR and rock. A good example of this distinction as related to the reinterpretation is the boring log for “bedrock” well MW-11 (**Appendix C, Figure 1**).

“Partially Weathered Rock” was identified by the field logger at 53.0 ft bgs; however, the first encounter of an N value > 50 did not occur until 65 ft bgs, which is the more appropriate determination of the top of PWR. Similarly, the field logger identified “Top of Rock” at a depth of 71.9 ft bgs, while the corresponding core information (RQD and REC) indicated poor rock quality – low RQD and REC – to the boring termination depth of 106.3 ft bgs. The more accurate interpretation of MW-11 places the PWR as extending beyond 106.3 ft bgs; rock was not encountered to the termination depth of the boring. Another representative log is provided in **Appendix C, Figure 2**, showing the log for “bedrock” well MW-16. The

original log interpretation shows the Saprolite/PWR interface at 32.5 ft bgs, which is correct based on the N value. However, the log shows “Top of Rock” at 36.0 ft bgs, although low core REC and RQD is present to a depth of approximately 47 ft bgs, where the next core run shows values truly indicative of rock. Thus, the reinterpretation places the PWR/rock interface at a depth of 47 ft bgs.

## 5.3 Site Hydrogeology

### 5.3.1 Contaminant Distribution with Respect to the CSM

There are two dominant chemical groups characteristic of the site contamination: petroleum hydrocarbons (e.g., BTEX) and chlorinated ethenes (primarily TCE, cis-DCE, and vinyl chloride). Petroleum product is lighter than water (i.e., floats atop the water table), whereas chlorinated ethene product is denser than water (i.e., sinks beneath the water table). This difference in physical properties expresses in a difference between the two chemical groups in terms of the vertical distribution of dissolved-phase contamination: petroleum hydrocarbons tend to be limited to the shallow portion of the aquifer (e.g., limited to Saprolite), whereas TCE and its related daughter products spread vertically across all hydrologic zones, and are carried downgradient within these zones where lateral hydraulic gradients prevail. The site data bear this out. Benzene and other petroleum hydrocarbons tend to be limited to shallow wells, and do not have an extensive downgradient extent (owing likely to greater affinity to natural attenuation processes that limit transport). TCE and its daughter products, on the other hand, occur at elevated concentrations deep beneath the release area (in PWR and bedrock), with a much greater downgradient extent (not yet fully bounded) with greater prevalence in PWR where greater transmissivity occurs.

### 5.3.2 Topographic Analysis

As described above, the topographic slope (gradient) creates the hydraulic gradient, with the direction of groundwater flow mimicking the topography. Valley bottoms are typically hydrologic divides. Ground surface topography was mathematically interpolated (**Appendix C, Figure 3**) for the local area in order to predict the direction of groundwater flow beyond the current monitoring well network, to aid in the location of additional delineation assessment. Norman Berry Drive follows a topographic low and pitches in a southeasterly direction. The updated CSM described herein is the basis for the recommended additional groundwater assessment wells shown on **Figure 3** of **Appendix C**.

### 5.3.3 Vertical Hydraulic Gradients

Vertical gradients were calculated for the following seven well pairs: MW-9/MW-10, MW-11/MW-12, MW-13/MW-14, MW-15/MW-16, MW-23/MW-24, MW-28/MW-29, and MW-30/MW-31. The well pairs are ordered in a distance progression from up- to downgradient across the site. Vertical gradients for the well pairs are presented in the table below.

| Well Pair | Position | Nov-15 |
|---|---|---|
| MW-23/MW-24 | Upgradient | 0.00 ft/ft |
| MW-9/MW-10 | Downgradient | -0.03 ft/ft |
| MW-30/MW-31 | Downgradient | -0.03 ft/ft |
| MW-15/MW-16 | Downgradient | -0.01 ft/ft |
| MW-11/MW-12 | Downgradient | -0.02 ft/ft |
| MW-13/MW-14 | Downgradient | 0.01 ft/ft |
| MW-28/MW-29 | Downgradient | -0.01 ft/ft |

The vertical gradient is calculated by dividing the difference in groundwater elevation in the paired wells by the difference in depths of the wells. Based on the table above, a positive number would indicate a downward gradient, and a negative number would indicate an upward gradient. The wells show a very modest vertical gradient (the dominant gradient is horizontal), with generally a slight upward vertical component exhibited. The well pair further downgradient and nearest the expected hydrologic divide (MW-28/MW-29) exhibits only a slight upward gradient; however, both of the wells in the well pair are in the same zone (Saprolite) and have only approximately 20 ft of vertical separation. It is anticipated that a deeper well installed in PWR or bedrock (part of the planned additional assessment) will express a greater upward vertical gradient.

# 6 PROPOSED FUTURE WORK

## 6.1 Groundwater Assessment

The groundwater assessment program is being reevaluated and the former groundwater monitoring program will no longer be in effect. The releases at the Site occurred more than thirty years ago. In addition, groundwater has been monitored at the Site for fourteen years (since January 2002), and the data over this long period of monitoring indicates that the plume is mature, stable, and not migrating. Based on the forgoing, the next phase of the groundwater assessment program is focused on assessing the off-site groundwater condition. LRM is proposing to add additional wells as a first step toward completing the off-site assessment.The proposed locations for the new wells are shown on Figure 6. At a minimum these wells will be sampled for VOCs that have been detected in wells near the property boundary: 1,1-dichloroethene, benzene, cis-1,2-dichloroethene, cyclohexane, ethyl benzene, m&p-xylene, o-xylene, toluene, PCE, TCE and vinyl chloride. The results from these wells will inform what additional wells may need to be installed off-site (likely on the VFW property and/or further down [southeast] Norman Berry Drive).

A well cluster will be installed at each location with two or more wells installed within one borehole. The well cluster borings will be advanced using rotosonic drilling methods, and continuous soil/rock cores will be collected from each depth. The borings will be drilled with 6-inch outside diameter rods advanced to the top of competent rock and 4-inch diameter rods in the competent rock. Each well will have 1-inch diameter PVC well casings with 1-inch diameter, 0.010-inch slotted, PVC screen. The screens will be ten feet in length. Within each boring, the deepest well will be set at or near the bottom of the boring and a sand pack will be installed around the screened interval. Bentonite will be placed between the deepest well sand pack and the upper-depth sand pack and be allowed to hydrate. The shallower well will be set in a similar manner. A minimum of 2 ft of bentonite will be placed on top of the sand pack for the shallowest screened interval, and the remainder of the borehole annulus will be pressure tremmie grouted. These wells will be developed by purging the wells until geochemical parameters (pH, temperature, and conductivity) stabilize and turbidity decreases below 10 Nephelometric Turbidity Units ("NTUs"). In the event that the turbidity does not reach 10 but the other parameters have stabilized, a sufficient volume of water will be purged from the wells and developing will be considered complete.

Prior to sampling the wells will be purged using low flow, or "tubing-in-screened-interval" methods. Bladder pumps will likely be used to purge the wells and the intake of the Teflon-lined tubing will be placed within the screened interval. The wells will be purged until geochemical parameters are stable for three consecutive readings.

## 6.2 System Performance Monitoring

Groundwater sampling and/or air monitoring will continue to be performed as needed.

# 7 REPORTING

Semiannual status reports will continue to be submitted to provide updates on the implementation and progress of the VIRP. The next semi-annual report will be submitted by October 30, 2016.

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 Voluntary Investigation and Remediation Plan.

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# TABLES

**Table 1**
**Planned Sample Table (November 2015)**
**Former Lafarge Road Marking**
**East Point, Georgia**

| Sample Location | Sample ID | Matrix | Sample Type | VOCs | Total Metals (lead) |
|---|---|---|---|---|---|
| | | | | 8260B | 6020 |
| 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 | |
| MW-8 | MW-8 (MMDDYYYY) | GW | 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 | |
| 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 | |
| MW-33 | MW-33 (MMDDYYYY) | GW | N | X | |
| MW-34 | MW-34 (MMDDYYYY) | GW | N | X | |
| MW-35 | MW-35 (MMDDYYYY) | GW | N | X | |
| MW-36 | MW-36 (MMDDYYYY) | GW | N | X | |
| MW-37 | MW-37 (MMDDYYYY) | GW | N | X | |
| MW-38 | MW-38 (MMDDYY) | GW | N | X | |
| RW-02 | RW-02 (MMDDYYYY) | GW | P | X | |
| RW-03 | RW-03 (MMDDYYYY) | GW | N | X | |

**Table 1**
**Planned Sample Table (November 2015)**
**Former Lafarge Road Marking**
**East Point, Georgia**

| | | | | | |
|---|---|---|---|---|---|
| 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 | |
| QA/QC SAMPLES | | | | | |
| DUP-01 | DUP-01 (MMDDYYYY) | GW | FD | X | |
| DUP-02 | DUP-02 (MMDDYYYY) | GW | FD | X | |
| DUP-03 | DUP-03 (MMDDYYYY) | GW | FD | X | |
| TB | TB (MMDDYYYY) | GW | TB | X | |
| EB-01 | EB-01 (MMDDYYYY) | GW | EB | 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 2**
**Well Construction and Groundwater Elevation Summary**
**Former Lafarge Road Marking**
**East Point, Georgia**

| Well No. | Screened Interval Geologic Zone | Total Depth (ft) | Screen Interval (ft)BTOC | Depth to Water (ft)BTOC | Depth to Water (ft)BTOC | Depth to Water (ft)BTOC | Depth to Water (ft)BTOC | Depth to Water (ft)BTOC | Depth to Water (ft)BTOC | Depth to Water (ft)BTOC | Top of Casing Elevation (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | May-13 | Aug-13 | Oct-13 | Nov-14 | May-15 | Nov-15 | Mar-16 | Mar-16 |
| MW-2 | Overburden | 27.7 | 17.7-27.7 | 16.56 | 15.27 | 14.62 | 16.67 | 14.66 | 14.85 | 14.92 | 1026.53 |
| MW-3 | Overburden | 32.8 | 22.8-32.8 | 17.47 | 16.00 | 15.42 | 17.67 | 10.64 | 16.57 | 14.21 | 1028.09 |
| MW-4 | Overburden | 40 | 20-40 | 18.19 | 17.00 | 15.90 | 18.26 | 17.61 | 17.28 | 14.15 | 1028.72 |
| MW-5R | Bedrock | 61.2 | 46.2-61.2 | 21.35 | NM | NM | 19.25 | NM | 17.99 | 15.41 | 1028.24 |
| MW-6 | Overburden | 40 | 25-40 | 28.48 | 25.99 | 24.32 | 27.38 | 28.75 | 28.18 | 25.01 | 1041.48 |
| MW-7 | Bedrock | 62.5 | 47.5-62.5 | 17.66 | 15.42 | 19.89 | 17.82 | 17.00 | NM | NM | 1027.13 |
| MW-8 | Overburden | 39.3 | 29.3-39.3 | 18.63 | 17.70 | 16.90 | 19.64 | 19.32 | 16.93 | 14.02 | 1027.83 |
| MW-9 | Bedrock | 81.1 | 66.1-81.1 | 11.04 | 10.35 | 9.46 | 11.36 | 10.12 | 10.44 | 8.22 | 1020.63 |
| MW-10 | Overburden | 57 | 37-57 | 11.52 | 10.79 | 9.80 | 11.53 | 10.58 | 10.88 | 8.75 | 1020.34 |
| MW-11 | Bedrock | 106.3 | 91.3-106.3 | 18.42 | 19.05 | 18.01 | 19.11 | 17.17 | 16.73 | 15.59 | 1023.46 |
| MW-12 | Overburden | 79.2 | 59.2-79.2 | 18.27 | 18.95 | 18.00 | 18.98 | 17.01 | 16.41 | 15.50 | 1022.66 |
| MW-13 | Bedrock | 97 | 82-97 | 16.29 | 17.45 | 15.23 | 16.91 | 14.28 | 13.87 | 13.00 | 1020.67 |
| MW-14 | Overburden | 73.7 | 53.7-73.7 | 16.11 | 16.20 | 15.38 | 16.00 | 14.42 | 14.25 | 12.75 | 1020.84 |
| MW-15 | Overburden | 37 | 17-37 | 20.54 | 19.03 | 18.72 | 20.52 | 19.61 | 19.73 | 16.18 | 1029.09 |
| MW-16 | Bedrock | 56 | 46-56 | 21.53 | 19.74 | 18.49 | 20.38 | 19.44 | 19.43 | 16.14 | 1029.02 |
| MW-17 | Overburden | 36.3 | 16.3-36.3 | 23.71 | 22.32 | 21.64 | 23.94 | 22.68 | 22.82 | 19.94 | 1033.99 |
| MW-18 | Overburden | 38 | 23-38 | 30.15 | 26.84 | 27.78 | 30.04 | 29.58 | 29.31 | 26.10 | 1043.04 |
| MW-19 | Overburden | 29.5 | 9.5-29.5 | 19.07 | 18.71 | 18.45 | 19.56 | 17.60 | 17.18 | 15.32 | 1023.68 |
| MW-20 | Overburden | 27.5 | 7.5-27.5 | 11.44 | 10.53 | 10.50 | 12.35 | 11.74 | 9.98 | 9.63 | 1020.98 |
| MW-21 | Overburden | 25 | 10.0-25.0 | 18.85 | 17.71 | 17.15 | 20.15 | 18.24 | 17.12 | 14.27 | 1028.56 |
| MW-22 | Overburden | 28 | 8.0-28.0 | 19.37 | 19.78 | 19.08 | 20.02 | 18.08 | 17.22 | 16.33 | 1023.45 |
| MW-23 | Bedrock | 69.5 | 59.5-69.5 | 25.40 | 23.70 | 22.35 | 26.88 | 25.68 | 24.69 | 22.19 | 1037.23 |
| MW-24 | Overburden | 60 | 25-60 | 25.36 | 24.97 | 22.88 | 27.07 | 25.85 | 24.61 | 22.38 | 1037.19 |
| MW-25 | Deep Bedrock | 200 | 190-200 | 15.09 | 13.31 | 13.41 | 4.76 | 4.44 | 4.24 | 4.60 | 1027.99 |
| MW-26 | Overburden | 23.5 | 13.5-23.5 | 11.46 | 10.52 | 10.23 | 12.01 | 11.40 | 10.78 | 8.00 | 1020.75 |
| MW-27 | Overburden | 48.2 | 46.2-48.2 | 13.59 | 12.77 | 9.44 | 12.24 | 10.97 | 11.27 | 8.28 | 1021.13 |
| MW-28 | Overburden | 23.5 | 13.5-23.5 | 6.56 | 5.48 | 6.41 | 6.95 | 6.32 | 5.92 | 5.69 | 1008.03 |
| MW-29 | Overburden | 45.5 | 43.5-45.5 | 5.99 | 6.49 | 5.93 | 6.36 | 5.75 | 5.39 | 5.29 | 1007.95 |
| MW-30 | Overburden | 60 | 50-60 | -- | -- | 7.51 | 9.24 | 8.53 | 8.90 | 6.29 | 1017.75 |
| MW-31 | Overburden | 35 | 25-35 | -- | -- | 7.74 | 9.40 | 8.62 | 9.01 | 6.46 | 1017.95 |
| MW-32 | Bedrock | 60 | 50-60 | -- | -- | 16.73 | 18.89 | NM | NM | NM | 1029.84 |
| MW-33 | Overburden | 35 | 25-35 | -- | -- | 18.22 | 21.11 | 21.10 | 18.70 | NM | 1029.56 |

**Table 2**
**Well Construction and Groundwater Elevation Summary**
**Former Lafarge Road Marking**
**East Point, Georgia**

| Well No. | Screened Interval Geologic Zone | Total Depth (ft) | Screen Interval (ft)BTOC | Depth to Water (ft)BTOC | Depth to Water (ft)BTOC | Depth to Water (ft)BTOC | Depth to Water (ft)BTOC | Depth to Water (ft)BTOC | Depth to Water (ft)BTOC | Depth to Water (ft)BTOC | Top of Casing Elevation (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | May-13 | Aug-13 | Oct-13 | Nov-14 | May-15 | Nov-15 | Mar-16 | Mar-16 |
| MW-34 | Overburden/Bedrock | 61.5 | 51.5-61.5 | NM | NM | NM | 21.73 | 18.43 | 24.41 | 19.71 | 1029.54 |
| MW-35 | Overburden/Bedrock | 61 | 51-61 | NM | NM | NM | 20.79 | 19.65 | 25.31 | 30.87 | 1030.67 |
| MW-36 | Overburden/Bedrock | 60.5 | 50.5-60.5 | NM | NM | NM | 19.03 | 21.98 | 22.03 | 18.85 | 1029.99 |
| MW-37 | Overburden | 24 | 14-24 | -- | -- | -- | -- | -- | -- | 2.69 | 1008.53 |
| MW-38 | Overburden | 26 | 16-26 | -- | -- | -- | -- | -- | -- | 9.80 | 1011.71 |
| RW-1 | Overburden | 34.5 | 4.5-34.5 | 19.98 | 18.59 | 17.94 | 20.17 | 19.54 | 19.39 | NM | 1029.68 |
| RW-2 | Overburden/Bedrock | 70.2 | 20.2-70.2 | 68.00 | NM | 58.08 | NM | NM | 17.24 | NM | 1028.05 |
| RW-3 | Overburden/Bedrock | 79.6 | 19.6-79.6 | 12.42 | NM | 10.92 | NM | NM | 11.17 | NM | 1019.89 |
| RW-4[1] | Overburden/Bedrock | 130.3 | 30.3-130.3 | NM[1] | NM[1] | NM[1] | NM[1] | NM | NM | NM | 1023.06 |
| RW-5 | Overburden/Bedrock | 70.2 | 20.2-70.2 | 23.50 | 21.94 | 21.14 | 23.02 | 22.14 | 23.27 | 18.68 | 1031.08 |
| RW-6 | Overburden/Bedrock | 60.5 | -- | 14.47 | NM | 13.04 | NM | NM | NM | NM | 1023.08 |
| RW-7 | Overburden/Bedrock | 70.2 | -- | 18.60 | NM | 16.96 | NM | NM | NM | NM | 1028.05 |
| RW-8 | Overburden/Bedrock | 67 | 50-67 | -- | -- | -- | -- | -- | NM | NM | -- |
| P-2 | Overburden | 30 | 20-30 | 15.09 | 16.28 | 12.72 | 15.16 | 28.81 | 13.69 | 13.36 | 1024.73 |
| P-4[2] | Overburden | 28 | 18-28 | NM[2] | NM[2] | NM[2] | NM[2] | NM | NM | NM | 1017.40 |
| P-6 | Overburden | 26 | 16-26 | 16.61 | 16.34 | 14.98 | 15.37 | 15.14 | 13.99 | 12.91 | 1021.09 |
| P-7 | Overburden | 26 | 16-26 | 21.65 | 20.42 | 20.30 | 22.24 | 25.64 | 20.19 | 17.95 | 1031.51 |
| P-8 | Overburden | 35 | 25-35 | NM[3] | 14.55 | NM[3] | 15.58 | 15.60 | 14.13 | 12.31 | 1021.35 |
| TW-01 | Overburden | 25 | 15-25 | -- | -- | -- | -- | -- | -- | 4.21 | 1011.16 |
| TW-02 | Overburden | 40 | 30-40 | -- | -- | -- | -- | -- | -- | 16.26 | 1030.15 |
| TW-03 | Overburden | 17 | 7-17 | -- | -- | -- | -- | -- | -- | 5.09 | 1005.51 |

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 durint the gauging event due to an obstruction.

NM - Not measured

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

| Location ID | Date Collected | Acetone | Benzene | 2-Butanone | Carbon Tetrachloride | Chlorobenzene | Chloroform | Cyclohexane | 1,1-Dichloroethene | cis-1,2-Dichloroethene | trans-1,2-Dichloroethene | Ethylbenzene | Methylene Chloride | 4-Methyl-2-pentanone | Tetrachloroethene | Toluene | 1,1,1-Trichloroethane | 1,1,2-Trichloroethane | Trichloroethene | Trichlorofluoromethane | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| Type 1 RRS-Groundwater | | 4,000 | 5 | 2,000 | 5 | 100 | 80 | 10 | 7 | 70 | 100 | 700 | 5 | 2,000 | 5 | 1,000 | 200 | 5 | 5 | 2,000 | 2 |
| Type 2 RRS-Groundwater | | 8,000 | 5 | 2,300 | 5.7 | 100 | 80 | 3,600 | 100 | 70 | 310 | 700 | 74 | 2,000 | 19 | 1,000 | 2700 | 5 | 5 | 2,000 | 2 |
| Type 4 RRS-Groundwater | | 46,000 | 8.7 | 12,000 | 10 | 140 | 80 | 18,000 | 520 | 200 | 2,000 | 700 | 450 | 4,200 | 98 | 5,200 | 14,000 | 410 | 5.2 | 2,000 | 2 |
| DPE-109 | 2/26/2014 | <2,500 | <250 | <2,500 | <250 | <250 | <250 | <250 | <250 | 4100 | <250 | 1,100 | <250 | <500 | <250 | 9,000 | <250 | <250 | 1,600 | <250 | <100 |
| DPE-109 | 4/25/2014 | <50 | 52 | <50 | <5.0 | <5.0 | <5.0 | 150 | 12 | 5,900 D | <5.0 | 170 | <5.0 | 10 | 29 | 12,000 D | <5.0 | <5.0 | 3,000 D | <5.0 | 130 |
| DPE-109 | 2/18/2015 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | 44 | <5.0 | 940 | <5.0 | 590 | <5.0 | <10 | <5.0 | 4,100 | <5.0 | <5.0 | 56 | <5.0 | 5.2 |
| DPE-109 | 8/31/2015 | <500 | <50 | <500 | <50 | <50 | <50 | <50 | <50 | 440 | <50 | <50 | <50 | <100 | <50 | <50 | <50 | <50 | 16,000 | <50 | <20 |
| DPE-118 | 2/26/2014 | <50 | 18 | <50 | <5.0 | <5.0 | <5.0 | 22 | <5.0 | 610 D | <5.0 | 110 | <5.0 | <10 | <5.0 | 770 D | <5.0 | <5.0 | 11 | <5.0 | 6.2 |
| DPE-118 | 4/25/2014 | <2,500 | <250 | <2,500 | <250 | <250 | <250 | <250 | <250 | 4,400 | <250 | <250 | <250 | <500 | <250 | 6,700 | <250 | <250 | 1,300 | <250 | <100 |
| DPE-118 | 2/18/2015 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 63 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | 33 | <5.0 | <2.0 |
| DPE-118 | 8/31/2015 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 330 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | 18 | <5.0 | <2.0 |
| DPE-305 | 2/26/2014 | <2,500 | 3,500 | <2,500 | <250 | <250 | <250 | 660 | <250 | 6,800 | <250 | 4,500 | <250 | <500 | <250 | 99,000 D | <250 | <250 | 1,300 | <250 | <100 |
| DPE-305 | 4/25/2014 | <2,500 | 3,100 | <2,500 | <250 | <250 | <250 | 310 | <250 | 11,000 D | <250 | 3,400 | 430 | 590 | <250 | 93,000 D | <250 | <250 | 8,600 | <250 | <100 |
| DPE-305 | 2/18/2015 | <25,000 | <2,500 | <25,000 | <2,500 | <2,500 | <2,500 | <2,500 | <2,500 | <2,500 | <2,500 | <2,500 | <2,500 | <5,000 | <2,500 | 27,000 | <2,500 | <2,500 | <2,500 | <2,500 | <1,000 |
| DPE-305 | 8/31/2015 | <25,000 | <2,500 | <25,000 | <2,500 | <2,500 | <2,500 | <2,500 | <2,500 | 5,400 | <2,500 | <2,500 | <2,500 | <5,000 | <2,500 | 38,000 | <2,500 | <2,500 | <2,500 | <2,500 | <1,000 |
| DPE-307 | 2/26/2014 | <2,500 | 3,200 | <2,500 | <250 | <250 | <250 | 430 | <250 | 550 | <250 | 720 | <250 | <500 | <250 | 250,000 D | <250 | <250 | <250 | <250 | <100 |
| DPE-307 | 4/25/2014 | <2,500 | 2,700 | <2,500 | <250 | <250 | <250 | 360 | <250 | 400 | <250 | 540 | <250 | <500 | <250 | 200,000 D | <250 | <250 | <250 | <250 | <100 |
| DPE-307 | 2/19/2015 | <250,000 | <25,000 | <250,000 | <25,000 | <25,000 | <25,000 | <25,000 | <25,000 | <25,000 | <25,000 | <25,000 | <25,000 | <50,000 | <25,000 | 160,000 | <25,000 | <25,000 | <25,000 | <25,000 | <10,000 |
| DPE-307 | 8/31/2015 | <50,000 | <5,000 | <50,000 | <5,000 | <5,000 | <5,000 | <5,000 | <5,000 | <5,000 | <5,000 | <5,000 | <5,000 | <10,000 | <5,000 | 98,000 | <5,000 | <5,000 | <5,000 | <5,000 | <2,000 |
| DPE-313 | 2/26/2014 | <50 | 610 D | 110 | <5.0 | <5.0 | <5.0 | 1,900 D | <5.0 | 69 | <5.0 | 840 D | <5.0 | 16 | <5.0 | 64 | <5.0 | <5.0 | <5.0 | <5.0 | 4.7 |
| DPE-313 | 4/25/2014 | <50 | 360 D | <50 | <5.0 | <5.0 | <5.0 | 1,500 D | <5.0 | 28 | <5.0 | 220 D | <5.0 | 59 | <5.0 | 1,200 D | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| DPE-313 | 2/19/2015 | <50 | 110 | <50 | <5.0 | <5.0 | <5.0 | 1,700 | <5.0 | 23 | <5.0 | 950 | <5.0 | 48 | <5.0 | 890 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| DPE-313 | 9/2/2015 | <50 | 43 | <50 | <5.0 | <5.0 | <5.0 | 930 | <5.0 | 14 | <5.0 | 770 | <5.0 | 12 | <5.0 | 93 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| DPE-408 | 2/26/2014 | <2,500 | 3,300 | <2,500 | <250 | <250 | <250 | 1,100 | <250 | 970 | <250 | 750 | <250 | <500 | <250 | 15,000 D | <250 | <250 | <250 | <250 | <100 |
| DPE-408 | 4/25/2014 | <2,500 | 3,200 | <2,500 | <250 | <250 | <250 | 1,200 | <250 | 990 | <250 | 770 | <250 | <500 | <250 | 18,000 D | <250 | <250 | <250 | <250 | <100 |
| DPE-408 | 2/18/2015 | <50 | 190 | <50 | <5.0 | <5.0 | <5.0 | 67 | <5.0 | 660 | <5.0 | 340 | <5.0 | 21 | <5.0 | 4,100 | <5.0 | <5.0 | 19 | <5.0 | 5.4 |
| DPE-408 | 9/2/2015 | <50 | 140 | <50 | <5.0 | <5.0 | <5.0 | 32 | <5.0 | 19 | <5.0 | 30 | <5.0 | <10 | <5.0 | 360 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| MW-02 | 5/24/2011 | <50 | 2,400 D | <50 | <5.0 | <5.0 | <5.0 | 960 D | <5.0 | 40 | <5.0 | 350 D | <5.0 | <10 | <5.0 | 1,100 D | <5.0 | <5.0 | <5.0 | <5.0 | 960 D |
| MW-02 | 5/27/2011 | <50 J | 2,800 DJ | <50 J | <5.0 J | <5.0 J | <5.0 J | NA | <5.0 J | NA | <5.0 J | 440 DJ | <5.0 J | <10 J | <5.0 J | 4,400 DJ | <5.0 J | <5.0 J | 26 J | <5.0 J | 900 DJ |
| MW-02 | 11/10/2011 | <50 | 2,400 D | <50 | <5.0 | <5.0 | <5.0 | 1,100 D | <5.0 | 13 | <5.0 | 470 D | <5.0 | <10 | <5.0 | 350 D | <5.0 | <5.0 | <5.0 | <5.0 | 940 D |
| MW-02 | 5/16/2012 | <50 | 2,100 D | <50 | <5.0 | <5.0 | <5.0 | NA | <5.0 | NA | <5.0 | 340 D | <5.0 | <10 | <5.0 | 650 D | <5.0 | <5.0 | 5.1 | <5.0 | 900 D |
| MW-02 | 11/14/2012 | <50 | 2,400 D | <50 | <5.0 | <5.0 | <5.0 | 1,000 D | <5.0 | <5.0 | <5.0 | 370 D | <5.0 | <10 | <5.0 | 86 | <5.0 | <5.0 | <5.0 | <5.0 | 1,000 D |
| MW-02 | 5/16/2013 | <50 | 2,400 D | <50 | <5.0 | <5.0 | <5.0 | NA | <5.0 | NA | <5.0 | 280 D | <5.0 | <10 | <5.0 | 150 | <5.0 | <5.0 | <5.0 | <5.0 | 960 D |
| MW-02 | 10/7/2013 | <50 | 3,100 D | <50 | <5.0 | <5.0 | <5.0 | 1,200 D | <5.0 | <5.0 | <5.0 | 490 D | <5.0 | <10 | <5.0 | 110 | <5.0 | <5.0 | <5.0 | <5.0 | 790 D |
| MW-02 | 5/30/2014 | <50 | 3,700 D | <50 | <5.0 | 84 | <5.0 | NA | <5.0 | NA | <5.0 | 490 D | <5.0 | <10 | <5.0 | 280 D | <5.0 | <5.0 | 16 | <5.0 | 890 D |
| MW-02 | 11/24/2014 | <50 | 2,800 D | <50 | <5.0 | <5.0 | <5.0 | 460 D | <5.0 | <5.0 | <5.0 | 300 D | <5.0 | <10 | <5.0 | 61 | <5.0 | <5.0 | <5.0 | <5.0 | 480 D |
| MW-02 | 5/20/2015 | <50 | 280 | <50 | <5.0 | <5.0 | <5.0 | 160 | <5.0 | <5.0 | <5.0 | 64 | <5.0 | <10 | <5.0 | 18 | <5.0 | <5.0 | <5.0 | <5.0 | 110 |
| MW-02 | 11/13/2015 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| MW-03 | 5/24/2011 | <50 [<50] | <5.0 [<5] | <50 [<50] | <5.0 [<5] | <5.0 [<5] | <5.0 [<5] | <5.0 [<5] | <5.0 [<5] | 150 [150] | <5.0 [<5] | <5.0 [<5] | <5.0 [<5] | <10 [<10] | <5.0 [<5] | <5.0 [<5] | <5.0 [<5] | <5.0 [<5] | <5.0 [<5] | <5.0 [<5] | 10 [11] |
| MW-03 | 11/9/2011 | <50 | 13 | <50 | <5.0 | <5.0 | <5.0 | 22 | <5.0 | 1,200 D | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | 22 | <5.0 | 36 |
| MW-03 | 5/15/2012 | <50 | 10 | <50 | <5.0 | <5.0 | <5.0 | 24 | <5.0 | 720 EJ | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | 5.3 | <5.0 | 49 |
| MW-03 | 11/14/2012 | <50 | 5.3 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 1,100 D | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | 9.2 | <5.0 | 49 |
| MW-03 | 5/16/2013 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | 31 | <5.0 | 230 D | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 22 |
| MW-03 | 10/8/2013 | <50 | 8.7 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 43 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | 7.8 | <5.0 | 7.8 |
| MW-03 | 5/28/2014 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 8.3 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| MW-03 | 11/24/2014 | <50 | 13 | <50 | <5.0 | <5.0 | <5.0 | 38 | <5.0 | <5.0 | <5.0 | 5.5 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| MW-03 | 5/20/2015 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| MW-03 | 11/13/2015 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| MW-04 | 5/25/2011 | <50 [<50] | <5.0 [<5] | <50 [<50] | <5.0 [<5] | <5.0 [<5] | <5.0 [<5] | <5.0 [<5] | <5.0 [<5] | 59 [52] | <5.0 [<5] | <5.0 [<5] | <5.0 [<5] | <10 [<10] | <5.0 [<5] | <5.0 [<5] | <5.0 [<5] | <5.0 [<5] | <5.0 [<5] | <5.0 [<5] | 57 [48] |
| MW-04 | 11/11/2011 | <50 [<50] | 6.5 [6.8] | <50 [<50] | <5.0 [<5] | <5.0 [<5] | <5.0 [<5] | <5.0 [<5] | <5.0 [<5] | 120 [130] | <5.0 [<5] | <5.0 [<5] | <5.0 [<5] | <10 [<10] | <5.0 [<5] | 33 [38] | <5.0 [<5] | <5.0 [<5] | 10 [12] | <5.0 [<5] | 68 [81] |
| MW-04 | 5/15/2012 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 100 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | 12 | <5.0 | 14 |
| MW-04 | 11/12/2012 | <50 | 21 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 2,400 D | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | 87 | <5.0 | 45 |
| MW-04 | 5/16/2013 | <50 | 5.9 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 77 | <5.0 | 5.4 | <5.0 | <10 | <5.0 | 170 | <5.0 | <5.0 | <5.0 | <5.0 | 16 |
| MW-04 | 10/8/2013 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 38 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | 9.4 | <5.0 | <5.0 | 6.2 | <5.0 | <2.0 |
| MW-04 | 5/29/2014 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| MW-04 | 11/24/2014 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| MW-04 | 11/13/2015 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 12 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 4.2 |
| MW-05 | 5/25/2011 | <50 | 7.2 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | 44 | 14,000 D | 8.5 | 15 | 9.8 | <10 | <5.0 | 41 | <5.0 | <5.0 | 1,700 D | <5.0 | 360 D |
| MW-05 | 5/27/2011 | <50 J | 8.0 J | <50 J | <5.0 J | <5.0 J | <5.0 J | NA | 35 J | NA | 6.0 J | 17 J | 6.3 J | <10 J | <5.0 J | 42 J | <5.0 J | <5.0 J | 1,300 DJ | <5.0 J | 460 DJ |
| MW-05 | 11/11/2011 | <5,000 | <500 | <5,000 | <500 | <500 | <500 | <500 | <500 | 16,000 | <500 | <500 | <500 | <1,000 | <500 | <500 | <500 | <500 | 4,900 | <500 | <200 |
| MW-05 | 5/15/2012 | <50 [<50] | 11 [11] | <50 [<50] | <5.0 [<5] | <5.0 [<5] | <5.0 [<5] | <5.0 [<5] | 58 [61] | 16,000 D [14,000 D] | 7.6 [8.6] | <5.0 [<5] | 28 [29] | <10 [<10] | <5.0 [<5] | 5.8 [5.9] | <5.0 [<5] | <5.0 [<5] | 6,400 D [6,500 D] | <5.0 [<5] | 130 [130] |
| MW-05 | 11/15/2012 | <5,000 | <500 | <5,000 | <500 | <500 | <500 | <500 | <500 | 24,000 D | <500 | <500 | <500 | <1,000 | <500 | <500 | <500 | <500 | 4,200 | <500 | 350 |
| MW-05 | 5/16/2013 | <25,000 [<25,000 | <2,500 [<2,500 | <25,000 [<25,000 | <2,500 [<2,500] | <2,500 [<2,500] | <2,500 [<2,500] | <2,500 [<2,500] | <2,500 [<2,500] | 27,000 [22,000] | <2,500 [<2,500] | <2,500 [<2,500] | <2,500 [<2,500] | <5,000 [<5,000] | <2,500 [<2,500] | <2,500 [<2,500 | <2,500 [<2,500] | <2,500 [<2,500] | 3,500 [3,200] | <2,500 [<2,500] | <1,000 [<1,000] |
| MW-05 | 5/28/2014 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 96 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | 110 | <5.0 | <2.0 |
| MW-05R | 4/16/2014 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | 6.9 | <5.0 | 310 D | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | 110 | <5.0 | 6.5 |
| MW-05R | 11/24/2014 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 62 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | 150 | <5.0 | <2.0 |
| MW-05R | 5/20/2015 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 190 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | 17 | <5.0 | 6.5 |
| MW-05R | 11/13/2015 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 19 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | 25 | <5.0 | <2.0 |
| MW-06 | 5/23/2011 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| MW-06 | 11/8/2011 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| MW-06 | 5/8/2012 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| MW-06 | 11/16/2012 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| MW-06 | 5/14/2013 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| MW-06 | 10/10/2013 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 11 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| MW-06 | 5/20/2014 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 7.8 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| MW-06 | 11/18/2014 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| MW-06 | 5/15/2015 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| MW-06 | 11/11/2015 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| MW-07 | 5/24/2011 | <25,000 | <2,500 | <25,000 | <2,500 | <2,500 | <2,500 | <2,500 | <2,500 | <2,500 | <2,500 | <2,500 | <2,500 | <5,000 | <2,500 | <2,500 | <2,500 | <2,500 | 35,000 | <2,500 | <1,000 |
| MW-07 | 5/27/2011 | <50 J | <5.0 J | <50 J | <5.0 J | <5.0 J | <5.0 J | NA | <5.0 J | NA | <5.0 J | <5.0 J | <5.0 J | <10 J | 19 J | <5.0 J | 9.5 J | 5.6 J | 73,000 DJ | 6.8 J | <2.0 J |
| MW-07 | 11/9/2011 | <25,000 | <2,500 | <25,000 | <2,500 | <2,500 | <2,500 | <2,500 | <2,500 | <2,500 | <2,500 | <2,500 | <2,500 | <5,000 | <2,500 | <2,500 | <2,500 | <2,500 | 20,000 | <2,500 | <1,000 |
| MW-07 | 5/16/2012 | <50 [<50] | <5.0 [<5] | <50 [<50] | <5.0 [<5] | <5.0 [<5] | <5.0 [<5] | 19 [20] | <5.0 [7.2] | 2,100 D [2,100 D] | <5.0 [<5] | <5.0 [<5] | <5.0 [<5] | <10 [<10] | 21 [23] | <5.0 [<5] | <5.0 [<5] | <5.0 [<5] | 41,000 D [39,000 D] | <5.0 [<5] | <2.0 [<2] |
| MW-07 | 11/15/2012 | <2,500 | <250 | <2,500 | <250 | <250 | <250 | <250 | <250 | 1,600 | <250 | <250 | <250 | <500 | <250 | <250 | <250 | <250 | 22,000 D | <250 | <100 |
| MW-07 | 5/14/2013 | <50 [<50] | <5.0 [<5] | <50 [<50] | <5.0 [<5] | <5.0 [<5] | <5.0 [<5] | <5.0 [<5] | <5.0 [<5] | 24 [29] | <5.0 [<5] | <5.0 [<5] | <5.0 [<5] | <10 [<10] | 7.0 [6] | <5.0 [<5] | <5.0 [<5] | <5.0 [<5] | 6.4 [8] | <5.0 [5.2] | 6.8 J [11 J] |
| MW-07 | 10/8/2013 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 48 | <5.0 | <5.0 | <5.0 | <10 | 9.0 | 8.3 | <5.0 | <5.0 | 34,000 D | <5.0 | <2.0 |
| MW-07 | 2/19/2014 | <25,000 | <2,500 | <25,000 | <2,500 | <2,500 | <2,500 | <2,500 | <2,500 | <2,500 | <2,500 | <2,500 | <2,500 | <5,000 | <2,500 | <2,500 | <2,500 | <2,500 | 21,000 | <2,500 | <1,000 |
| MW-07 | 5/29/2014 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | 19 | <5.0 | 6,600 D | <5.0 | 140 | <5.0 | 56 | 14 | 1,700 D | 19 | <5.0 | 120,000 D | <5.0 | <2.0 |
| MW-07 | 11/25/2014 | <5,000 [<5,000] | <500 [<500] | <5,000 [<5,000] | <500 [<500] | <500 [<500] | <500 [<500] | <500 [<500] | <500 [<500] | 15,000 [16,000] | <500 [<500] | <500 [<500] | <500 [<500] | <1,000 [<1,000] | <500 [<500] | <500 [<500] | <500 [<500] | <500 [<500] | 18,000 [19,000] | <500 [<500] | <200 [<200] |
| MW-07 | 2/18/2015 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | 16 | 27 | 12,000 | 6.4 | <5.0 | <5.0 | <10 | 8.4 | <5.0 | <5.0 | <5.0 | 12,000 | <5.0 | <2.0 |
| MW-07 | 5/19/2015 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | 17 | 14 | 6,200 | 14 | 10 | <5.0 | <10 | 7.5 | 6.4 | <5.0 | <5.0 | 10,000 | <5.0 | <2.0 |
| MW-07 | 9/1/2015 | <5,000 | <500 | <5,000 | <500 | <500 | <500 | <500 | <500 | <500 | <500 | <500 | <500 | <1,000 | <500 | <500 | <500 | <500 | 18,000 | <500 | <200 |
| MW-07 | 11/17/2015 | <50 | <5.0 | 340 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 860 | <5.0 | 22 | <5.0 | <10 | 5.0 | 100 | <5.0 | <5.0 | 10,000 | <5.0 | <2.0 |

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

| Location ID | Date Collected | Acetone | Benzene | 2-Butanone | Carbon Tetrachloride | Chlorobenzene | Chloroform | Cyclohexane | 1,1-Dichloroethene | cis-1,2-Dichloroethene | trans-1,2-Dichloroethene | Ethylbenzene | Methylene Chloride | 4-Methyl-2-pentanone | Tetrachloroethene | Toluene | 1,1,1-Trichloroethane | 1,1,2-Trichloroethane | Trichloroethene | Trichlorofluoromethane | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| Type 1 RRS-Groundwater | | 4,000 | 5 | 2,000 | 5 | 100 | 80 | 10 | 7 | 70 | 100 | 700 | 5 | 2,000 | 5 | 1,000 | 200 | 5 | 5 | 2,000 | 2 |
| Type 2 RRS-Groundwater | | 8,000 | 5 | 2,300 | 5.7 | 100 | 80 | 3,600 | 100 | 70 | 310 | 700 | 74 | 2,000 | 19 | 1,000 | 2700 | 5 | 5 | 2,000 | 2 |
| Type 4 RRS-Groundwater | | 46,000 | 8.7 | 12,000 | 10 | 140 | 80 | 18,000 | 520 | 200 | 2,000 | 700 | 450 | 4,200 | 98 | 5,200 | 14,000 | 410 | 5.2 | 2,000 | 2 |
| MW-08 | 5/24/2011 | <50 | 330 D | <50 | <5.0 | <5.0 | <5.0 | 82 | 30 | 17,000 D | <5.0 | 850 D | <5.0 | 31 | 6.6 | 24,000 D | <5.0 | <5.0 | 17 | <5.0 | 590 D |
| MW-08 | 11/9/2011 | <50 | 46 | <50 | <5.0 | <5.0 | <5.0 | 28 | <5.0 | 3,100 D | <5.0 | 170 D | <5.0 | <10 | <5.0 | 3,600 D | <5.0 | <5.0 | 17 | <5.0 | 740 D |
| MW-08 | 5/16/2012 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 41 | <5.0 | <5.0 | <5.0 | <10 | 10 | <5.0 | <5.0 | <5.0 | 9.8 | <5.0 | <2.0 |
| MW-08 | 11/15/2012 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | 6.8 | <5.0 | <5.0 | <5.0 | 5.7 | <5.0 | <2.0 |
| MW-08 | 5/14/2013 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 57 | <5.0 | <5.0 | <5.0 | <10 | 5.2 | <5.0 | <5.0 | <5.0 | <5.0 | 6.0 | <2.0 |
| MW-08 | 10/8/2013 | <50 | 14 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 1,900 D | <5.0 | 120 | <5.0 | <10 | <5.0 | 2,700 D | <5.0 | <5.0 | <5.0 | <5.0 | 110 |
| MW-08 | 2/19/2014 | <50 | 13 | <50 | <5.0 | <5.0 | <5.0 | 11 | <5.0 | 1,900 D | <5.0 | 85 | <5.0 | <10 | <5.0 | 970 D | <5.0 | <5.0 | 7.1 | <5.0 | 170 |
| MW-08 | 5/30/2014 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 72 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | 6.4 | <5.0 | 24 |
| MW-08 | 11/25/2014 | <50 [<50] | <5.0 [<5] | <50 [<50] | <5.0 [<5] | <5.0 [<5] | <5.0 [<5] | <5.0 [<5] | <5.0 [<5] | 17 [16 J] | <5.0 [<5] | <5.0 [<5] | <5.0 [<5] | <10 [<10] | <5.0 [<5] | <5.0 [<5] | <5.0 [<5] | <5.0 [<5] | <5.0 [<5] | <5.0 [<5] | 2.9 [2.8] |
| MW-08 | 2/18/2015 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 7.7 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 11 |
| MW-08 | 5/21/2015 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 8.7 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 15 |
| MW-08 | 8/31/2015 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 36 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | 57 | <5.0 | <5.0 | <5.0 | <5.0 | 15 |
| MW-08 | 5/21/2015 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 8.7 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 15 |
| MW-08 | 11/16/2015 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 95 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 160 |
| MW-09 | 5/24/2011 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 98 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | 12 | <5.0 | 15 |
| MW-09 | 11/11/2011 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 94 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | 49 | <5.0 | 13 |
| MW-09 | 5/14/2012 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 120 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | 57 | <5.0 | 8.2 |
| MW-09 | 11/14/2012 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 250 D | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | 550 D | <5.0 | 12 |
| MW-09 | 5/15/2013 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 34 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | 11 | <5.0 | 3.2 |
| MW-09 | 10/10/2013 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 20 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 5.6 |
| MW-09 | 5/27/2014 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 13 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | 5.1 | <5.0 | 4.9 |
| MW-09 | 11/21/2014 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 17 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | 19 | <5.0 | 6.7 |
| MW-09 | 5/20/2015 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 64 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | 56 | <5.0 | <2.0 |
| MW-09 | 11/19/2015 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 9.1 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 2.6 |
| MW-10 | 5/24/2011 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 37 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 11 |
| MW-10 | 11/11/2011 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 20 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 13 |
| MW-10 | 5/15/2012 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 18 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 9.9 |
| MW-10 | 11/14/2012 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 6.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| MW-10 | 5/15/2013 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 3.2 |
| MW-10 | 10/10/2013 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 11 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 8.9 |
| MW-10 | 5/27/2014 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 5.8 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 2.5 |
| MW-10 | 11/21/2014 | <50 | <5.0 | <50 | <5.0 | 5.5 | <5.0 | <5.0 | <5.0 | 5.3 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | 5.3 | <5.0 | <5.0 | <5.0 | <5.0 | 3.0 |
| MW-10 | 5/20/2015 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| MW-10 | 11/19/2015 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| MW-11 | 5/23/2011 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 81 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | 52 | <5.0 | <2.0 |
| MW-11 | 11/9/2011 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 47 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | 35 | <5.0 | <2.0 |
| MW-11 | 5/8/2012 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 60 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | 36 | <5.0 | 2.2 |
| MW-11 | 11/13/2012 | <50 [<50] | <5.0 [<5] | <50 [<50] | <5.0 [<5] | <5.0 [<5] | <5.0 [<5] | <5.0 [<5] | <5.0 [<5] | 48 [44] | <5.0 [<5] | <5.0 [<5] | <5.0 [<5] | <10 [<10] | <5.0 [<5] | <5.0 [<5] | <5.0 [<5] | <5.0 [<5] | 24 [23] | <5.0 [<5] | <2.0 [<2] |
| MW-11 | 5/15/2013 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 50 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | 24 | <5.0 | 3.8 |
| MW-11 | 10/9/2013 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 26 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | 15 | <5.0 | <2.0 |
| MW-11 | 5/28/2014 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 9.6 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| MW-11 | 11/20/2014 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 7.6 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| MW-11 | 5/18/2015 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 6.6 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| MW-11 | 11/19/2015 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| MW-12 | 5/23/2011 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 480 D | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | 310 D | <5.0 | 2.8 |
| MW-12 | 11/9/2011 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 190 D | <5.0 | <5.0 | <5.0 | <10 | 12 | <5.0 | <5.0 | <5.0 | 120 | <5.0 | <2.0 |
| MW-12 | 5/8/2012 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 240 D | <5.0 | <5.0 | <5.0 | <10 | 14 | <5.0 | <5.0 | <5.0 | 110 | <5.0 | <2.0 |
| MW-12 | 11/13/2012 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 250 D | <5.0 | <5.0 | <5.0 | <10 | 7.8 | <5.0 | <5.0 | <5.0 | 100 | <5.0 | <2.0 |
| MW-12 | 5/15/2013 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 240 D | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | 160 | <5.0 | <2.0 |
| MW-12 | 10/9/2013 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 510 D | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | 480 D | <5.0 | 10 |
| MW-12 | 5/27/2014 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 130 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | 85 | <5.0 | 2.7 |
| MW-12 | 11/19/2014 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 33 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | 7.9 | <5.0 | <2.0 |
| MW-12 | 5/18/2015 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 39 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | 22 | <5.0 | <2.0 |
| MW-12 | 11/19/2015 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 47 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | 24 | <5.0 | <2.0 |
| MW-13 | 5/23/2011 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| MW-13 | 11/10/2011 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| MW-13 | 5/10/2012 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| MW-13 | 11/13/2012 | <50 | <5.0 | <50 | <5.0 | 6.1 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| MW-13 | 5/15/2013 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| MW-13 | 10/9/2013 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| MW-13 | 5/21/2014 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| MW-13 | 11/19/2014 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| MW-13 | 5/18/2015 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| MW-13 | 11/19/2015 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| MW-14 | 5/23/2011 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| MW-14 | 11/10/2011 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| MW-14 | 5/10/2012 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| MW-14 | 11/13/2012 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| MW-14 | 5/15/2013 | <50 | <5.0 | <50 | <5.0 | 5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| MW-14 | 10/9/2013 | <50 [<50] | <5.0 [<5] | <50 [<50] | <5.0 [<5] | <5.0 [<5] | <5.0 [<5] | <5.0 [<5] | <5.0 [<5] | <5.0 [<5] | <5.0 [<5] | <5.0 [<5] | <5.0 [<5] | <10 [<10] | <5.0 [<5] | <5.0 [<5] | <5.0 [<5] | <5.0 [<5] | <5.0 [<5] | <5.0 [<5] | <2.0 [<2] |
| MW-14 | 5/21/2014 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| MW-14 | 11/19/2014 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| MW-14 | 5/18/2015 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| MW-14 | 11/17/2015 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| MW-15 | 5/23/2011 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| MW-15 | 11/9/2011 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| MW-15 | 5/8/2012 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| MW-15 | 11/13/2012 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| MW-15 | 5/13/2013 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| MW-15 | 10/9/2013 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| MW-15 | 5/21/2014 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| MW-15 | 11/19/2014 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| MW-15 | 5/19/2015 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| MW-15 | 11/12/2015 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| MW-16 | 5/23/2011 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| MW-16 | 11/9/2011 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| MW-16 | 5/8/2012 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| MW-16 | 11/13/2012 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| MW-16 | 5/13/2013 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| MW-16 | 10/9/2013 | <50 [<50] | <5.0 [<5] | <50 [<50] | <5.0 [<5] | <5.0 [<5] | <5.0 [<5] | <5.0 [<5] | <5.0 [<5] | <5.0 [<5] | <5.0 [<5] | <5.0 [<5] | <5.0 [<5] | <10 [<10] | <5.0 [<5] | <5.0 [<5] | <5.0 [<5] | <5.0 [<5] | <5.0 [<5] | <5.0 [<5] | <2.0 [<2] |
| MW-16 | 5/21/2014 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| MW-16 | 11/19/2014 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| MW-16 | 5/19/2015 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| MW-16 | 11/12/2015 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |

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

| Location ID | Date Collected | Acetone | Benzene | 2-Butanone | Carbon Tetrachloride | Chlorobenzene | Chloroform | Cyclohexane | 1,1-Dichloroethene | cis-1,2-Dichloroethene | trans-1,2-Dichloroethene | Ethylbenzene | Methylene Chloride | 4-Methyl-2-pentanone | Tetrachloroethene | Toluene | 1,1,1-Trichloroethane | 1,1,2-Trichloroethane | Trichloroethene | Trichlorofluoromethane | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| Type 1 RRS-Groundwater | | 4,000 | 5 | 2,000 | 5 | 100 | 80 | 10 | 7 | 70 | 100 | 700 | 5 | 2,000 | 5 | 1,000 | 200 | 5 | 5 | 2,000 | 2 |
| Type 2 RRS-Groundwater | | 8,000 | 5 | 2,300 | 5.7 | 100 | 80 | 3,600 | 100 | 70 | 310 | 700 | 74 | 2,000 | 19 | 1,000 | 2700 | 5 | 5 | 2,000 | 2 |
| Type 4 RRS-Groundwater | | 46,000 | 8.7 | 12,000 | 10 | 140 | 80 | 18,000 | 520 | 200 | 2,000 | 700 | 450 | 4,200 | 98 | 5,200 | 14,000 | 410 | 5.2 | 2,000 | 2 |
| MW-17 | 5/24/2011 | <50 | 240 D | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 130 | <5.0 | 110 | <5.0 | 190 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 13 |
| MW-17 | 11/10/2011 | <50 | 580 D | <50 | <5.0 | <5.0 | <5.0 | 1,100 D | <5.0 | 26 | <5.0 | 71 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 3.0 |
| MW-17 | 5/14/2012 | <50 | 710 D | <50 | <5.0 | <5.0 | <5.0 | 1,400 D | <5.0 | 61 | <5.0 | 88 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 5.2 |
| MW-17 | 11/15/2012 | <50 | 200 D | <50 | <5.0 | <5.0 | <5.0 | 540 D | <5.0 | 17 | <5.0 | 21 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 2.1 |
| MW-17 | 5/14/2013 | <50 | 1,300 D | <50 | <5.0 | <5.0 | <5.0 | 2,300 D | <5.0 | 190 | <5.0 | 140 | <5.0 | 31 | <5.0 | 7.5 | <5.0 | <5.0 | <5.0 | <5.0 | 21 |
| MW-17 | 10/7/2013 | <50 | 220 D | <50 | <5.0 | <5.0 | <5.0 | 1,300 D | <5.0 | 19 | <5.0 | 61 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 2.6 |
| MW-17 | 5/21/2014 | <50 [<50] | 560 D [520 D] | <50 [<50] | <5.0 [<5] | <5.0 [<5] | <5.0 [<5] | 830 D [1,100 D] | <5.0 [<5] | 15 [15] | <5.0 [<5] | 89 [99] | <5.0 [<5] | <10 [<10] | <5.0 [<5] | 6.8 [7.3] | <5.0 [<5] | <5.0 [<5] | <5.0 [<5] | <5.0 [<5] | 11 [11] |
| MW-17 | 11/24/2014 | <50 | 360 D | <50 | <5.0 | <5.0 | <5.0 | 1,600 D | <5.0 | 17 | <5.0 | 100 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 6.6 |
| MW-17 | 5/19/2015 | <50 | 170 | <50 | <5.0 | <5.0 | <5.0 | 1,000 | <5.0 | 11 | <5.0 | 55 | <5.0 | 15 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| MW-17 | 11/12/2015 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| MW-18 | 5/23/2011 | <50 | <5.0 | <50 | <5.0 | <5.0 | 5.9 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| MW-18 | 11/8/2011 | <50 | <5.0 | <50 | <5.0 | <5.0 | 8.2 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| MW-18 | 5/8/2012 | <50 | <5.0 | <50 | <5.0 | <5.0 | 8.1 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| MW-18 | 11/16/2012 | <50 | <5.0 | <50 | <5.0 | <5.0 | 9.5 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| MW-18 | 5/14/2013 | <50 | <5.0 | <50 | <5.0 | <5.0 | 6.7 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| MW-18 | 10/10/2013 | <50 | <5.0 | <50 | <5.0 | <5.0 | 6.6 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| MW-18 | 5/20/2014 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| MW-18 | 11/18/2014 | <50 | <5.0 | <50 | <5.0 | <5.0 | 5.2 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| MW-18 | 5/15/2015 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| MW-18 | 11/12/2015 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| MW-19 | 5/23/2011 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| MW-19 | 11/10/2011 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| MW-19 | 5/10/2012 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| MW-19 | 11/13/2012 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| MW-19 | 5/14/2013 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| MW-19 | 10/9/2013 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| MW-19 | 5/21/2014 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| MW-19 | 11/19/2014 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| MW-19 | 5/18/2015 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| MW-19 | 11/17/2015 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| MW-20 | 5/24/2011 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 6.2 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| MW-20 | 11/11/2011 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| MW-20 | 5/15/2012 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| MW-20 | 11/14/2012 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 11 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| MW-20 | 5/15/2013 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| MW-20 | 10/10/2013 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| MW-20 | 5/27/2014 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 52 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 4.4 |
| MW-20 | 11/21/2014 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| MW-20 | 5/20/2015 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| MW-20 | 11/19/2015 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 28 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | 14 | <5.0 | <2.0 |
| MW-21 | 5/24/2011 | <50 | 21 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 1,100 D | <5.0 | <5.0 | <5.0 | <10 | <5.0 | 9.9 | <5.0 | <5.0 | 6.1 | <5.0 | 640 D |
| MW-21 | 11/9/2011 | <50 | 28 | <50 | <5.0 | <5.0 | <5.0 | 93 | 5.0 | 1,400 D | <5.0 | <5.0 | <5.0 | <10 | <5.0 | 11 | <5.0 | <5.0 | 9.6 | <5.0 | 640 D |
| MW-21 | 5/16/2012 | <50 | 78 | <50 | <5.0 | <5.0 | <5.0 | 170 | 22 | 6,800 D | <5.0 | <5.0 | <5.0 | <10 | 7.1 | 11 | <5.0 | <5.0 | 51 | <5.0 | 690 D |
| MW-21 | 11/15/2012 | <1,000 | 100 | <1,000 | <100 | <100 | <100 | 190 | <100 | 9,400 D | <100 | <100 | <100 | <200 | <100 | <100 | <100 | <100 | <100 | <100 | 500 |
| MW-21 | 5/14/2013 | <50 | 140 | <50 | <5.0 | <5.0 | <5.0 | 250 D | 43 | 16,000 D | 27 | <5.0 | <5.0 | <10 | <5.0 | 15 | <5.0 | <5.0 | 6.4 | <5.0 | 930 D |
| MW-21 | 10/8/2013 | <50 | 64 | <50 | <5.0 | <5.0 | <5.0 | 120 | 18 | 10,000 D | 11 | <5.0 | <5.0 | <10 | <5.0 | 6.3 | <5.0 | <5.0 | <5.0 | <5.0 | 260 D |
| MW-21 | 2/19/2014 | <5,000 | <500 | <5,000 | <500 | <500 | <500 | <500 | <500 | 13,000 | <500 | <500 | <500 | <1,000 | <500 | <500 | <500 | <500 | <500 | <500 | 780 |
| MW-21 | 5/29/2014 | <50 [<50] | 48 [53] | <50 [<50] | <5.0 [<5] | <5.0 [<5] | <5.0 [<5] | 110 J [160 D] | 15 [18] | 9,300 D [11,000 D] | 12 [11] | <5.0 [<5] | <5.0 [<5] | <10 [<10] | <5.0 [<5] | 6.4 [7.6] | <5.0 [<5] | <5.0 [<5] | <5.0 [5.4] | <5.0 [<5] | 420 D [460 D] |
| MW-21 | 11/25/2014 | <50 [<50] | 38 [38] | <50 [<50] | <5.0 [<5] | <5.0 [<5] | <5.0 [<5] | 120 [110] | 9.1 [9.2] | 7,800 D [7,800 D] | 9.2 [9.2] | <5.0 [<5] | <5.0 [<5] | <10 [<10] | <5.0 [<5] | 6.5 [6.8] | <5.0 [<5] | <5.0 [<5] | <5.0 [<5] | <5.0 [<5] | 260 D [270 D] |
| MW-21 | 2/18/2015 | <50 | 22 | <50 | <5.0 | <5.0 | <5.0 | 73 | 5.8 | 5,100 | 6.6 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 290 |
| MW-21 | 5/21/2015 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | 24 | <5.0 | 1,300 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 34 |
| MW-21 | 8/31/2015 | <50 | 9.3 | <50 | <5.0 | <5.0 | <5.0 | 38 | <5.0 | 1700 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | 5.5 | <5.0 | 130 |
| MW-21 | 11/16/2015 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | 10 | <5.0 | 340 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | 8.2 | <5.0 | 160 |
| MW-22 | 5/23/2011 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 8.4 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | 5.4 | <5.0 | <2.0 |
| MW-22 | 11/9/2011 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| MW-22 | 5/8/2012 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| MW-22 | 11/15/2012 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| MW-22 | 5/15/2013 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| MW-22 | 10/9/2013 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 5.1 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| MW-22 | 5/28/2014 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| MW-22 | 11/19/2014 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 15 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| MW-22 | 5/18/2015 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 6.5 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| MW-22 | 11/19/2015 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| MW-23 | 5/23/2011 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | 9.7 | <5.0 | <5.0 | <5.0 | <5.0 | 14 | <2.0 |
| MW-23 | 11/8/2011 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | 9.3 | <5.0 | <5.0 | <5.0 | <5.0 | 11 | <2.0 |
| MW-23 | 5/8/2012 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | 10 | <5.0 | <5.0 | <5.0 | <5.0 | 14 | <2.0 |
| MW-23 | 5/15/2013 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | 7.7 | <5.0 | <5.0 | <5.0 | 6.0 | 14 | <2.0 |
| MW-23 | 10/10/2013 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | 5.0 | <5.0 | <5.0 | <5.0 | 6.6 | 11 | <2.0 |
| MW-23 | 5/20/2014 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| MW-23 | 11/18/2014 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | 6.4 | 12 | <2.0 |
| MW-23 | 5/15/2015 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| MW-23 | 11/11/2015 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | 6.9 | <5.0 | <5.0 | <5.0 | 5.7 | 12 | <2.0 |
| MW-24 | 5/23/2011 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | 62 | <5.0 | <5.0 | <5.0 | <5.0 | 15 | <2.0 |
| MW-24 | 11/8/2011 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | 18 | <5.0 | <5.0 | <5.0 | <5.0 | 6.2 | <2.0 |
| MW-24 | 5/8/2012 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| MW-24 | 11/16/2012 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| MW-24 | 5/14/2013 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| MW-24 | 10/10/2013 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| MW-24 | 5/20/2014 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| MW-24 | 11/19/2014 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| MW-24 | 5/15/2015 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| MW-24 | 11/11/2015 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |

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

| Location ID | Date Collected | Acetone | Benzene | 2-Butanone | Carbon Tetrachloride | Chlorobenzene | Chloroform | Cyclohexane | 1,1-Dichloroethene | cis-1,2-Dichloroethene | trans-1,2-Dichloroethene | Ethylbenzene | Methylene Chloride | 4-Methyl-2-pentanone | Tetrachloroethene | Toluene | 1,1,1-Trichloroethane | 1,1,2-Trichloroethane | Trichloroethene | Trichlorofluoromethane | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| Type 1 RRS-Groundwater | | 4,000 | 5 | 2,000 | 5 | 100 | 80 | 10 | 7 | 70 | 100 | 700 | 5 | 2,000 | 5 | 1,000 | 200 | 5 | 5 | 2,000 | 2 |
| Type 2 RRS-Groundwater | | 8,000 | 5 | 2,300 | 5.7 | 100 | 80 | 3,600 | 100 | 70 | 310 | 700 | 74 | 2,000 | 19 | 1,000 | 2700 | 5 | 5 | 2,000 | 2 |
| Type 4 RRS-Groundwater | | 46,000 | 8.7 | 12,000 | 10 | 140 | 80 | 18,000 | 520 | 200 | 2,000 | 700 | 450 | 4,200 | 98 | 5,200 | 14,000 | 410 | 5.2 | 2,000 | 2 |
| MW-25 | 5/25/2011 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| MW-25 | 5/10/2012 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| MW-25 | 11/19/2012 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| MW-25 | 5/15/2013 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| MW-25 | 10/10/2013 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| MW-25 | 5/29/2014 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | 8.0 | <5.0 | <2.0 |
| MW-25 | 11/25/2014 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 J | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| MW-25 | 5/21/2015 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| MW-25 | 11/20/2015 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| MW-26 | 5/24/2011 | <50 | <5.0 | <50 | <5.0 | <5.0 | 11 | <5.0 | <5.0 | 200 D | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | 9.1 | <5.0 | <2.0 |
| MW-26 | 11/10/2011 | <50 | <5.0 | <50 | <5.0 | <5.0 | 6.7 | <5.0 | <5.0 | 110 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | 7.2 | <5.0 | <2.0 |
| MW-26 | 5/15/2012 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 30 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | 5.5 | <5.0 | <2.0 |
| MW-26 | 11/14/2012 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 7.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| MW-26 | 5/15/2013 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 47 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| MW-26 | 10/7/2013 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 200 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | 6.4 | <5.0 | <2.0 |
| MW-26 | 2/18/2014 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 95 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | 5.0 | <5.0 | <2.0 |
| MW-26 | 5/23/2014 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 53 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| MW-26 | 11/20/2014 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 120 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | 13 | <5.0 | <2.0 |
| MW-26 | 5/19/2015 | <50 [<50] | <5.0 [<5] | <50 [<50] | <5.0 [<5] | <5.0 [<5] | <5.0 [<5] | <5.0 [<5] | <5.0 [<5] | 160 [140] | <5.0 [<5] | <5.0 [<5] | <5.0 [<5] | <10 [<10] | <5.0 [<5] | <5.0 [<5] | <5.0 [<5] | <5.0 [<5] | 16 [15] | <5.0 [<5] | <2.0 [<2] |
| MW-26 | 11/16/2015 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 42 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| MW-27 | 5/24/2011 | <50 | 81 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | 7.2 | 2,900 D | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | 76 | <5.0 | 230 D |
| MW-27 | 11/10/2011 | <50 | 110 | <50 | <5.0 | <5.0 | <5.0 | 27 | 6.1 | 3,000 D | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | 95 | <5.0 | 160 |
| MW-27 | 5/15/2012 | <50 | 150 | <50 | <5.0 | <5.0 | <5.0 | 40 | 12 | 3,900 D | <5.0 | <5.0 | <5.0 | <10 | 6.0 | <5.0 | <5.0 | <5.0 | 110 | <5.0 | 200 D |
| MW-27 | 11/14/2012 | <50 | 18 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 2,300 D | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | 51 | <5.0 | 59 |
| MW-27 | 5/16/2013 | <50 | 32 | <50 | <5.0 | <5.0 | <5.0 | 8.4 | 6.4 | 4,000 D | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | 62 | <5.0 | 73 |
| MW-27 | 10/10/2013 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 2,800 D | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | 58 | <5.0 | 32 |
| MW-27 | 2/19/2014 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 2,700 D | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | 58 | <5.0 | 17 |
| MW-27 | 5/23/2014 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 870 D | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | 39 | <5.0 | 22 |
| MW-27 | 11/20/2014 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 1,100 D | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | 69 | <5.0 | 5.6 |
| MW-27 | 5/19/2015 | <50 [<50] | <5.0 [<5] | <50 [<50] | <5.0 [<5] | <5.0 [<5] | <5.0 [<5] | <5.0 [<5] | <5.0 [<5] | 870 [720] | <5.0 [<5] | <5.0 [<5] | <5.0 [<5] | <10 [<10] | <5.0 [<5] | <5.0 [<5] | <5.0 [<5] | <5.0 [<5] | 38 [35] | <5.0 [<5] | <2.0 [<2] |
| MW-27 | 11/16/2015 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 630 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | 23 | <5.0 | <2.0 |
| MW-28 | 5/24/2011 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 160 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | 150 | <5.0 | <2.0 |
| MW-28 | 11/10/2011 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 160 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | 160 | <5.0 | <2.0 |
| MW-28 | 5/16/2012 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 210 D | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | 170 | <5.0 | <2.0 |
| MW-28 | 11/15/2012 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 160 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | 130 | <5.0 | <2.0 |
| MW-28 | 5/16/2013 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 340 D | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | 270 D | <5.0 | <2.0 |
| MW-28 | 10/9/2013 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 700 D | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | 560 D | <5.0 | <2.0 |
| MW-28 | 5/28/2014 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 1,100 D | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | 580 D | <5.0 | 2.3 |
| MW-28 | 11/20/2014 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 2,000 D | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | 470 D | <5.0 | 9.2 |
| MW-28 | 5/19/2015 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 1,500 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | 340 | <5.0 | 10 |
| MW-28 | 11/20/2015 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | 5.7 | 1,900 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | 280 | <5.0 | 17 |
| MW-29 | 5/24/2011 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 470 D | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | 280 D | <5.0 | <2.0 |
| MW-29 | 11/11/2011 | <50 [<50] | <5.0 [<5] | <50 [<50] | <5.0 [<5] | <5.0 [<5] | <5.0 [<5] | <5.0 [<5] | <5.0 [<5] | 310 D [340 D] | <5.0 [<5] | <5.0 [<5] | <5.0 [<5] | <10 [<10] | 8.8 [7.4] | <5.0 [<5] | <5.0 [<5] | <5.0 [<5] | 300 D [250 D] | <5.0 [<5] | 2.7 [2.8] |
| MW-29 | 5/16/2012 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 530 EJ | <5.0 | <5.0 | <5.0 | <10 | 11 | <5.0 | <5.0 | <5.0 | 430 EJ | <5.0 | <2.0 |
| MW-29 | 11/15/2012 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 250 D | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | 97 | <5.0 | <2.0 |
| MW-29 | 5/16/2013 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 340 D | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | 180 D | <5.0 | <2.0 |
| MW-29 | 10/9/2013 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 610 D | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | 310 D | <5.0 | <2.0 |
| MW-29 | 5/28/2014 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 1,700 D | 6.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | 440 D | <5.0 | 8.4 |
| MW-29 | 11/20/2014 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 2,900 D | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | 480 D | <5.0 | 23 |
| MW-29 | 5/19/2015 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 2,000 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | 430 | <5.0 | 7.3 |
| MW-29 | 11/20/2015 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | 5.6 | 2,000 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | 380 | <5.0 | 27 |
| MW-30 | 10/8/2013 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 2.1 |
| MW-30 | 5/27/2014 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| MW-30 | 11/24/2014 | <50 | 59 | <50 | <5.0 | <5.0 | <5.0 | 15 | <5.0 | <5.0 | <5.0 | 21 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 2.1 |
| MW-30 | 5/19/2015 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| MW-30 | 11/12/2015 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| MW-31 | 10/8/2013 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 8.4 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 24 |
| MW-31 | 5/27/2014 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | 6.1 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 17 |
| MW-31 | 11/20/2014 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 6.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 32 |
| MW-31 | 5/19/2015 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 18 |
| MW-31 | 11/12/2015 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 31 |
| MW-32 | 10/8/2013 | <50 | <5.0 | <50 | 8.2 | <5.0 | <5.0 | 22 | 15 | 6.5 | <5.0 | 280 D | 10.0 | 16 | 17 | 3,900 D | 30 | <5.0 | 170,000 D | <5.0 | <2.0 |
| MW-32 | 2/19/2014 | [50,000 [<50,000 | <5,000 [<5,000 | <50,000 [<50,000 | <5,000 [<5,000] | <5,000 [<5,000] | <5,000 [<5,000] | <5,000 [<5,000] | <5,000 [<5,000] | <5,000 [<5,000] | <5,000 [<5,000] | <5,000 [<5,000] | <5,000 [<5,000] | <10,000 [<10,000] | <5,000 [<5,000] | 2,000 [10,000 | <5,000 [<5,000] | <5,000 [<5,000] | 500,000 D [460,000 D] | <5,000 [<5,000] | <2,000 [<2,000] |
| MW-32 | 4/16/2014 | <5,000 | <500 | <5,000 | <500 | <500 | <500 | <500 | <500 | <500 | <500 | <500 | <500 | <1,000 | <500 | 1,200 | <500 | <500 | 67,000 D | <500 | <200 |
| MW-32 | 5/30/2014 | <50 | 21 | <50 | 11 | 44 | <5.0 | 40 | 71 | 15 | <5.0 | 510 D | 47 | 240 | 26 | 11,000 D | 38 | 14 | 470,000 D | <5.0 | <2.0 |
| MW-32 | 11/20/2014 | 1,100 D | 49 J | 550 D | <5.0 J | <5.0 | 6.6 J | <5.0 | 81 J | 14 J | <5.0 | 580 D | 130 J | 470 DJ | 26 J | 12,000 DJ | 36 J | 110 J | 540,000 DJ | <5.0 | <2.0 |
| MW-32 | 2/18/2015 | <25,000 | <2,500 | <25,000 | <2,500 | <2,500 | <2,500 | <2,500 | <2,500 | <2,500 | <2,500 | <2,500 | <2,500 | <5,000 | <2,500 | <2,500 | <2,500 | <2,500 | 59,000 | <2,500 | <1,000 |
| MW-32 | 5/15/2015 | <250,000 | <25,000 | <250,000 | <25,000 | <25,000 | <25,000 | <25,000 | <25,000 | <25,000 | <25,000 | <25,000 | <25,000 | <50,000 | <25,000 | <25,000 | <25,000 | <25,000 | 84,000 | <25,000 | <10,000 |
| MW-32 | 5/15/2015 | <250,000 | <25,000 | <250,000 | <25,000 | <25,000 | <25,000 | <25,000 | <25,000 | <25,000 | <25,000 | <25,000 | <25,000 | <50,000 | <25,000 | <25,000 | <25,000 | <25,000 | 84,000 | <25,000 | <10,000 |
| MW-32 | 11/17/2015 | <500 | <50 | <500 | <50 | <50 | <50 | <50 | <50 | 460 | <50 | <50 | <50 | <100 | <50 | <50 | <50 | <50 | 26,000 | <50 | <20 |
| MW-33 | 10/8/2013 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | 55 | <5.0 | 1,100 D | <5.0 | 170 | <5.0 | <10 | <5.0 | 840 D | <5.0 | <5.0 | <5.0 | <5.0 | 350 D |
| MW-33 | 5/29/2014 | 50 | 12 | 50 | 5.0 | 5.0 | 5.0 | 49 | 5.0 | 1,700 D | 5.0 | 300 D | 5.0 | 10 | 5.0 | 4,700 D | 5.0 | 5.0 | 47 | 5.0 | 4.4 |
| MW-33 | 11/24/2014 | <50 | 7.7 | <50 | <5.0 | <5.0 | <5.0 | 81 | <5.0 | 660 D | <5.0 | 420 D | <5.0 | <10 | <5.0 | 2,000 D | <5.0 | <5.0 | <5.0 | <5.0 | 90 |
| MW-33 | 5/21/2015 | 56 | 21 | <50 | <5.0 | <5.0 | <5.0 | 110 | 5.4 | 4,500 | <5.0 | 290 | <5.0 | 58 | <5.0 | 12,000 | <5.0 | <5.0 | <5.0 | <5.0 | 15 |
| MW-33 | 11/16/2015 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | 7.5 | <5.0 | 28 | <5.0 | 7.2 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 18 |
| MW-34 | 4/16/2014 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 7.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | 21 | <5.0 | <5.0 | 4,900 D | <5.0 | <2.0 |
| MW-34 | 11/24/2014 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | 400 D | <5.0 | <2.0 |
| MW-34 | 2/18/2015 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | 160 | <5.0 | <2.0 |
| MW-34 | 5/21/2015 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | 120 | <5.0 | <2.0 |
| MW-34 | 5/21/2015 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | 120 | <5.0 | <2.0 |
| MW-34 | 11/16/2015 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | 94 | 5.4 | <2.0 |
| MW-35 | 4/16/2014 | <2,500 | <250 | <2,500 | <250 | <250 | <250 | <250 | <250 | <250 | <250 | <250 | <250 | <500 | <250 | 340 | <250 | <250 | 14,000 D | <250 | <100 |
| MW-35 | 11/24/2014 | <5,000 | <500 | <5,000 | <500 | <500 | <500 | <500 | <500 | <500 | <500 | <500 | <500 | <1,000 | <500 | <500 | <500 | <500 | 69,000 D | <500 | <200 |
| MW-35 | 2/18/2015 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 45 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | 8,400 | <5.0 | <2.0 |
| MW-35 | 5/21/2015 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 230 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | 12,000 | <5.0 | <2.0 |
| MW-35 | 5/21/2015 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 230 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | 12,000 | <5.0 | <2.0 |
| MW-35 | 11/16/2015 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 110 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | 760 | <5.0 | <2.0 |
| MW-36 | 4/17/2014 | <2,500 | <250 | <2,500 | <250 | <250 | <250 | <250 | <250 | 1,600 | <250 | <250 | <250 | <500 | <250 | 490 | <250 | <250 | 16,000 D | <250 | <100 |
| MW-36 | 11/20/2014 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | 33 | 9,600 D | <5.0 | 11 | <5.0 | 20 | <5.0 | 51 | <5.0 | <5.0 | 5,500 D | <5.0 | 10 |
| MW-36 | 2/18/2015 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | 29 | 9,200 | <5.0 | 7.0 | <5.0 | <10 | <5.0 | 34 | <5.0 | <5.0 | 4,800 | <5.0 | 10 |
| MW-36 | 5/15/2015 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | 40 | 18,000 | 5.4 | 14 | <5.0 | <10 | <5.0 | 65 | <5.0 | <5.0 | 330 | <5.0 | 13 |
| MW-36 | 5/15/2015 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | 40 | 18,000 | 5.4 | 14 | <5.0 | <10 | <5.0 | 65 | <5.0 | <5.0 | 330 | <5.0 | 13 |
| MW-36 | 11/17/2015 | <500 | <50 | <500 | <50 | <50 | <50 | <50 | 55 | 15,000 | <50 | <50 | <50 | <100 | <50 | 56 | <50 | <50 | 1,200 | <50 | 78 |
| MW-37 | 12/31/2015 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 520 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | 26 | <5.0 | <2.0 |
| MW-38 | 12/31/2015 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 11 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | 5.5 | <5.0 | <2.0 |
| TW-1 | 3/3/2016 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 92 | <5.0 | <5.0 | <5.0 | <10 | 10 | <5.0 | <5.0 | <5.0 | 8.2 | <5.0 | <2.0 |
| TW-2 | 3/3/2016 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| TW-3 | 3/3/2016 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| RW-02 | 11/11/2011 | <5,000 | <500 | <5,000 | <500 | <500 | <500 | <500 | <500 | 12,000 | <500 | <500 | <500 | <1,000 | <500 | 8,700 | <500 | <500 | <500 | <500 | 1,100 |

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

| Location ID | Date Collected | Acetone | Benzene | 2-Butanone | Carbon Tetrachloride | Chlorobenzene | Chloroform | Cyclohexane | 1,1-Dichloroethene | cis-1,2-Dichloroethene | trans-1,2-Dichloroethene | Ethylbenzene | Methylene Chloride | 4-Methyl-2-pentanone | Tetrachloroethene | Toluene | 1,1,1-Trichloroethane | 1,1,2-Trichloroethane | Trichloroethene | Trichlorofluoromethane | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| Type 1 RRS-Groundwater | | 4,000 | 5 | 2,000 | 5 | 100 | 80 | 10 | 7 | 70 | 100 | 700 | 5 | 2,000 | 5 | 1,000 | 200 | 5 | 5 | 2,000 | 2 |
| Type 2 RRS-Groundwater | | 8,000 | 5 | 2,300 | 5.7 | 100 | 80 | 3,600 | 100 | 70 | 310 | 700 | 74 | 2,000 | 19 | 1,000 | 2700 | 5 | 5 | 2,000 | 2 |
| Type 4 RRS-Groundwater | | 46,000 | 8.7 | 12,000 | 10 | 140 | 80 | 18,000 | 520 | 200 | 2,000 | 700 | 450 | 4,200 | 98 | 5,200 | 14,000 | 410 | 5.2 | 2,000 | 2 |
| RW-02 | 5/8/2012 | <50 | 940 D | <50 | <5.0 | <5.0 | 5.3 | 120 | 25 | 12,000 D | <5.0 | 770 D | <5.0 | 49 | <5.0 | 27,000 D | <5.0 | <5.0 | 44 | <5.0 | 1,300 D |
| RW-02 | 11/19/2012 | <50 | 45 | <50 | <5.0 | <5.0 | <5.0 | 18 | <5.0 | 1,300 D | <5.0 | 8.5 | <5.0 | <10 | <5.0 | 1,100 D | <5.0 | <5.0 | 41 | <5.0 | 120 |
| RW-02 | 5/13/2013 | <1,000 | 220 | <1,000 | <100 | <100 | <100 | <100 | <100 | 4,700 D | <100 | <100 | <100 | <200 | <100 | 7,000 DJ | <100 | <100 | <100 | <100 | 500 |
| RW-02 | 10/14/2013 | <50 | 640 EJ | <50 | <2.0 | <10 | 3.9 | NA | 20 | 12,000 EJ | 3.3 | 900 EJ | <10 | NA | <2.0 | <2.0 | <2.0 | <2.0 | 71 | <5.0 | 1,100 EJ |
| RW-02 | 5/23/2014 | <5,000 | <500 | <5,000 | <500 | <500 | <500 | <500 | <500 | 5,700 | <500 | <500 | <500 | <1,000 | <500 | 13,000 | <500 | <500 | <500 | <500 | 940 |
| RW-02 | 11/25/2014 | <50 | 200 | <50 | <5.0 | <5.0 | <5.0 | 24 | 5.1 | 3,600 D | <5.0 | <5.0 | <5.0 | 13 | <5.0 | 4,500 D | <5.0 | <5.0 | 180 | <5.0 | 480 D |
| RW-02 | 2/18/2015 | <2,500 | <250 | <2,500 | <250 | <250 | <250 | <250 | <250 | 2,000 | <250 | 280 | <250 | <500 | <250 | 8,900 | <250 | <250 | <250 | <250 | 420 |
| RW-02 | 5/18/2015 | <50 | 14 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 480 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | 260 | <5.0 | <5.0 | 53 | <5.0 | 39 |
| RW-02 | 5/18/2015 | <50 | 14 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 480 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | 260 | <5.0 | <5.0 | 53 | <5.0 | 39 |
| RW-02 | 11/17/2015 | <50 | 70 | <50 | <5.0 | <5.0 | <5.0 | 43 | <5.0 | 470 | <5.0 | 88 | <5.0 | 11 | <5.0 | 2,900 | <5.0 | <5.0 | 32 | <5.0 | 370 |
| RW-03 | 11/11/2011 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 220 D | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | 26 | <5.0 | 6.0 |
| RW-03 | 5/8/2012 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 190 D | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | 38 | <5.0 | 4.9 |
| RW-03 | 11/19/2012 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 210 D | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | 52 | <5.0 | 4.6 |
| RW-03 | 5/13/2013 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 100 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | 13 | <5.0 | 8.5 |
| RW-03 | 10/14/2013 | <50 | <2.0 | <50 | <2.0 | <10 | <2.0 | NA | <2.0 | 44 | <2.0 | <2.0 | <10 | NA | <2.0 | 4.3 | <2.0 | <2.0 | 5.1 | <5.0 | 7.8 |
| RW-03 | 5/23/2014 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 20 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 6.7 |
| RW-03 | 11/17/2014 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 9.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 8.8 |
| RW-03 | 5/20/2015 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 15 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 4.0 |
| RW-03 | 11/17/2015 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 28 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | 5.6 | <5.0 | 4.9 |
| RW-04 | 11/9/2011 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 49 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | 47 | <5.0 | <2.0 |
| RW-04 | 5/8/2012 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 63 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | 46 | <5.0 | <2.0 |
| RW-04 | 11/19/2012 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 63 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | 52 | <5.0 | <2.0 |
| RW-04 | 5/13/2013 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 48 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | 32 | <5.0 | <2.0 |
| RW-04 | 10/14/2013 | <50 | <2.0 | <50 | <2.0 | <10 | <2.0 | NA | <2.0 | 8.1 | <2.0 | <2.0 | <10 | NA | <2.0 | <2.0 | <2.0 | <2.0 | 5.5 | <5.0 | <2.0 |
| RW-04 | 5/23/2014 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| RW-04 | 11/17/2014 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 6.6 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | 5.4 | <5.0 | <2.0 |
| RW-04 | 5/20/2015 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2.0 |
| RW-06 | 11/11/2011 | <50 | 6.3 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 180 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | 16 | <5.0 | 11 |
| RW-06 | 5/8/2012 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 120 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 6.4 |
| RW-06 | 11/19/2012 | <50 | 6.0 | <50 | <5.0 | <5.0 | <5.0 | 8.0 | <5.0 | 340 D | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | 17 | <5.0 | 18 |
| RW-06 | 5/13/2013 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 210 D | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | 12 | <5.0 | 16 |
| RW-06 | 10/14/2013 | <50 | 7.1 | <50 | <2.0 | <10 | 2.8 | NA | <2.0 | 420 D | <2.0 | <2.0 | <10 | NA | <2.0 | <2.0 | <2.0 | <2.0 | 17 | <5.0 | 16 |
| RW-06 | 5/23/2014 | <50 | 10 | <50 | <5.0 | <5.0 | <5.0 | 13 | <5.0 | 360 D | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | 16 | <5.0 | 44 |
| RW-06 | 11/17/2014 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | 5.7 | <5.0 | 370 D | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | 13 | <5.0 | 19 |
| RW-06 | 5/18/2015 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 210 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | 8.1 | <5.0 | 21 |
| RW-06 | 11/17/2015 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 190 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | 11 | <5.0 | 25 |
| RW-07 | 11/11/2011 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 33 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | 31 | <5.0 | <5.0 | <5.0 | <5.0 | 8.8 |
| RW-07 | 5/8/2012 | <50 | 6.1 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 38 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | 35 | <5.0 | <5.0 | <5.0 | <5.0 | 13 |
| RW-07 | 11/19/2012 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 4.2 |
| RW-07 | 5/13/2013 | <50 | 28 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 130 | <5.0 | 8.8 | <5.0 | <10 | <5.0 | 140 | <5.0 | <5.0 | <5.0 | <5.0 | 58 |
| RW-07 | 10/14/2013 | <50 | <2.0 | <50 | <2.0 | <10 | <2.0 | NA | <2.0 | 36 | <2.0 | <2.0 | <10 | NA | <2.0 | <2.0 | <2.0 | <2.0 | 2.5 | <5.0 | 6.4 |
| RW-07 | 5/23/2014 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 17 |
| RW-07 | 5/18/2015 | <50 | <5.0 | <50 | <5.0 | <5.0 | 5.6 | <5.0 | <5.0 | 16 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 13 |
| RW-07 | 11/17/2015 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 9.3 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | 6.0 | <5.0 | <5.0 | <5.0 | <5.0 | 3.2 |
| RW-08 | 10/7/2013 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 1,200 D | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | 3,100 D | <5.0 | 20 |
| RW-08 | 2/19/2014 | <50 | 6.9 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 700 D | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | 400 D | <5.0 | 48 |
| RW-08 | 11/17/2014 | <50 | 470 D | <50 | <5.0 | <5.0 | <5.0 | 74 | 13 | 9,800 D | <5.0 | 530 D | <5.0 | 40 | <5.0 | 20,000 D | <5.0 | <5.0 | 120 | <5.0 | 1,000 D |
| RW-08 | 2/18/2015 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 630 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | 170 | <5.0 | 2.1 |
| RW-08 | 5/20/2015 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 830 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | 410 | <5.0 | 4.9 |
| RW-08 | 5/20/2015 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 830 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | 410 | <5.0 | 4.9 |
| RW-08 | 11/17/2015 | <50 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 390 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | <5.0 | 290 | <5.0 | 13 |

Exceeds Type 1 RRS
Exceeds Type 4 RRS

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

| Location ID | Date Collected | Lead |
|---|---|---|
| | | ug/L |
| Type 1 RRS | | 15 |
| Type 4 RRS | | 15 |
| MW-02 | 5/27/2011 | <10 |
| | 5/16/2012 | <10 |
| | 5/16/2013 | <10 |
| | 10/7/2013 | <10 |
| | 5/30/2014 | <10 |
| | 11/24/2014 | <10 |
| | 5/20/2015 | 1.25 |
| | 11/13/2015 | <10 |
| MW-03 | 10/8/2013 | <10 |
| | 11/24/2014 | <10 |
| | 5/20/2015 | 4.91 |
| | 11/13/2015 | <10 |
| MW-04 | 10/8/2013 | 14.1 |
| | 11/24/2014 | <10 |
| | 11/13/2015 | <10 |
| MW-05 | 5/27/2011 | <10 |
| MW-05R | 11/24/2014 | <10 |
| | 5/20/2015 | <1.00 |
| | 11/13/2015 | <10 |
| MW-07 | 5/27/2011 | <10 |
| | 10/8/2013 | <10 |
| MW-08 | 10/8/2013 | <10 |
| MW-17 | 10/7/2013 | 27.9 |
| | 11/24/2014 | <10 |
| | 5/19/2015 | 1.30 |
| | 11/12/2015 | <10 |
| MW-21 | 10/8/2013 | <10 |
| MW-26 | 10/7/2013 | <10 |
| MW-30 | 10/8/2013 | <10 |
| | 11/24/2014 | <10 |
| | 5/19/2015 | 2.35 |
| | 11/12/2015 | <10 |
| MW-31 | 10/8/2013 | <10 |
| | 11/20/2014 | <10 |
| | 5/19/2015 | 3.09 |
| | 11/12/2015 | <10 |
| MW-32 | 10/8/2013 | <10 |
| MW-33 | 10/8/2013 | <10 |

**Table 4**
**Vapor Treatment System Analytical Summary**
**Lafarge Road Marking**
**East Point, Georgia**

| Sample Location | 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 INF | 4/17/15 | *8,063* | 2 | 223 | | 92 | 1,100 | 85 | 428 | 810 | 1,300 | 10 U | 160 | 300 | 460 | 12,000 | 249.2 | 4,439.6 | 90,607 |
| SVE INF | 4/17/15 | *8,063* | 2 | 223 | | 92 | 1,200 | 83 | 437 | 820 | 1,200 | 10 U | 160 | 280 | 440 | 12,000 | 248.8 | 0.0 | 90,607 |
| SVE INF | 6/2/15 | *8,878* | 2 | 246 | | 120 | 1,400 | 81 | 370 | 920 | 2,400 | 10 U | 280 | 430 | 710 | 14,000 | 324.6 | 11,011.8 | 101,619 |
| SVE INF | 6/2/15 | *8,881* | 2 | 246 | | 260 | 2,500 | 150 | 680 | 1,600 | 6,200 | 10 U | 850 | 880 | 1,730 | 31,000 | 722.2 | 90.3 | 101,709 |
| SVE INF | 8/4/15 | *9,977* | 2 | 351 | | 10 U | 290 | 28 | 135 | 190 | 910 | 10 U | 10 U | 23 | 3,033 | 4,300 | 230.5 | 10,529.3 | 112,238 |
| SVE INF | 8/4/15 | *9,983* | 2 | 351 | | 10 U | 230 | 21 | 121 | 250 | 1,500 | 10 U | 850 | 880 | 4,180 | 6,000 | 320.1 | 80.0 | 112,318 |
| SVE INF | 9/2/15 | *10,651* | 2 | 187 | | 35 | 280 | 21 | 111 | 190 | 1,200 | 10 U | 57 | 43 | 500 | 5,900 | 107.4 | 2,991.1 | 115,309 |
| SVE INF | 9/2/15 | *10,657* | 2 | 187 | | 32 | 480 | 34 | 180 | 260 | 880 | 10 U | 29 | 50 | 569 | 5,500 | 101.8 | 25.5 | 115,335 |
| SVE INF | 9/11/15 | *10,706* | 2 | 154 | | 43 | 360 | 20 | 118 | 10 U | 10 U | 10 U | 10 U | 83 | 623 | 6,100 | 92.9 | 188.4 | 115,523 |
| SVE INF | 9/11/15 | *10,712* | 2 | 154 | | 24 | 170 | 13 | 79 | 10 U | 10 U | 10 U | 10 U | 42 | 282 | 3,800 | 56.4 | 14.1 | 115,537 |
| SVE INF | 10/13/15 | *11,461* | 2 | 491 | | 10 U | 370 | 31 | 154 | 200 | 280 | 10 U | 10 U | 87 | 3,287 | 3,100 | 281.3 | 8,777.8 | 124,315 |
| SVE INF | 10/13/15 | *11,467* | 2 | 491 | | 10 U | 170 | 12 | 54 | 100 | 430 | 10 U | 10 U | 73 | 2,273 | 2,600 | 214.6 | 53.7 | 124,369 |
| SVE INF | 11/23/15 | *12,268* | 2 | 157 | | 10 U | 150 | 10 | 46 | 91 | 440 | 10 U | 10 U | 42 | 1,842 | 2,600 | 62.6 | 2,088.3 | 126,457 |

**Table 4**
**Vapor Treatment System Analytical Summary**
**Lafarge Road Marking**
**East Point, Georgia**

| Sample Location | 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 | 11/23/15 | *12,274* | 2 | 157 | | 10 U | 160 | 14 | 75 | 100 | 210 | 10 U | 10 U | 29 | 1,629 | 1,800 | 48.3 | 12.1 | 126,469 |
| SVE INF | 1/8/16 | *13,303* | 2 | 180 | | 10 U | 200 | 10 U | 41 | 160 | 650 | 10 U | 190 | 94 | 284 | 3,500 | 61.1 | 2,619.3 | 129,088 |
| SVE INF | 1/8/16 | *13,304* | 2 | 180 | | 10 U | 230 | 10 | 62 | 170 | 460 | 10 U | 140 | 79 | 219 | 3,200 | 55.2 | 2.3 | 129,091 |
| SVE INF | 2/16/16 | *14,194* | 4 | 254 | | 10 U | 200 | 10 U | 32 | 120 | 530 | 10 U | 97 | 49 | 146 | 3,300 | 78.5 | 2,910.5 | 132,001 |
| SVE INF | 2/16/16 | *14,195* | 4 | 254 | | 10 U | 230 | 10 U | 38 | 130 | 610 | 10 U | 110 | 60 | 170 | 3,800 | 90.5 | 3.8 | 132,005 |
| | | | | | | | | | | | | | | | | | | | |
| 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 |
| SVE EFF | 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 |
| 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 |
| SVE-EFF | 4/17/15 | *8,063* | 2 | *222* | | 10 U | 10 U | 10 U | 30 U | 10 U | 10 U | 10 U | 10 U | 10 U | BDL | 100 U | 1.1 | 19.8 | 5,608 |
| SVE-EFF | 6/2/15 | *8,878* | 2 | 246 | | 10 U | 10 U | 10 U | 30 U | 10 U | 10 U | 10 U | 10 U | 10 U | BDL | 100 U | 1.2 | 41.2 | 5,649 |
| SVE-EFF | 8/5/15 | *9,979* | 2 | 351 | | 10 U | 10 U | 10 U | 30 U | 10 U | 10 U | 10 U | 10 U | 10 U | BDL | 100 U | 1.7 | 79.3 | 5,729 |
| SVE-EFF | 9/2/15 | *10,671* | 2 | 187 | | 10 U | 10 U | 10 U | 30 U | 10 U | 10 U | 10 U | 10 U | 10 U | BDL | 100 U | 0.9 | 26.6 | 5,755 |
| SVE-EFF | 10/13/15 | *11,461* | 2 | 491 | | 10 U | 10 U | 10 U | 30 U | 10 U | 10 U | 10 U | 10 U | 10 U | BDL | 100 U | 2.4 | 79.8 | 5,835 |
| SVE-EFF | 11/21/15 | *12,220* | 2 | 157 | | 10 U | 10 U | 10 U | 30 U | 10 U | 10 U | 10 U | 10 U | 10 U | BDL | 100 U | 0.8 | 24.5 | 5,860 |
| SVE-EFF | 2/16/16 | *14,194* | 4 | 254 | | 10 U | 10 U | 10 U | 30 U | 10 U | 10 U | 10 U | 10 U | 10 U | BDL | 100 U | 1.3 | 103.0 | 5,963 |
| | | | | | | | | | | | | | | | | | | | |
| 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 | #REF! | -- |
| 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 | -- |
| Z1 SVE INF | 4/17/15 | *12* | 2 | 223 | | 92 | 1,200 | 83 | 437 | 820 | 1,200 | 10 U | 160 | 280 | 440 | 12,000 | 248.8 | 124.4 | -- |
| Z1 SVE INF | 6/2/15 | *12* | 2 | 246 | | 260 | 2,500 | 150 | 680 | 1,600 | 6,200 | 10 U | 850 | 880 | 1,730 | 31,000 | 722.2 | 361.1 | -- |
| Z1 SVE INF | 9/11/15 | *12* | 2 | 154 | | 24 | 170 | 13 | 79 | 10 U | 10 U | 10 U | 10 U | 42 | 282 | 3,800 | 56.4 | 28.2 | -- |

**Table 4**
**Vapor Treatment System Analytical Summary**
**Lafarge Road Marking**
**East Point, Georgia**

| Sample Location | 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) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Z1 SVE INF | 10/13/15 | *12* | 2 | 491 | | 10 U | 170 | 12 | 54 | 100 | 430 | 10 U | 10 U | 73 | 2,273 | 2,600 | 214.6 | 107.3 | -- |
| Z1 SVE INF | 1/8/16 | *12* | 2 | 180 | | 10 U | 230 | 10 | 62 | 170 | 460 | 10 U | 140 | 79 | 219 | 3,200 | 55.2 | 27.6 | -- |
| | | | | | | | | | | | | | | | | | | | |
| 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 | -- |
| Z2 SVE INF | 4/17/15 | *12* | 2 | 223 | | 92 | 1,100 | 85 | 428 | 810 | 1,300 | 10 U | 160 | 300 | 460 | 12,000 | 249.2 | 124.6 | -- |
| Z2 SVE INF | 6/2/15 | *12* | 2 | 246 | | 120 | 1,400 | 81 | 370 | 920 | 2,400 | 10 U | 280 | 430 | 710 | 14,000 | 324.6 | 162.3 | -- |
| Z2 SVE INF | 9/11/15 | *12* | 2 | 154 | | 43 | 360 | 20 | 118 | 10 U | 10 U | 10 U | 10 U | 83 | 623 | 6,100 | 92.9 | 46.4 | -- |
| Z2 SVE INF | 10/13/15 | *12* | 2 | 491 | | 10 U | 370 | 31 | 154 | 200 | 280 | 10 U | 10 U | 87 | 3,287 | 3,100 | 281.3 | 140.7 | -- |
| Z2 SVE INF | 1/8/16 | *12* | 2 | 180 | | 10 U | 200 | 10 U | 41 | 160 | 650 | 10 U | 190 | 94 | 284 | 3,500 | 61.1 | 30.5 | |
| | | | | | | | | | | | | | | | | | | | |
| 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 | -- |
| Z3 SVE INF | 8/4/15 | *12* | 2 | 351 | | 10 U | 290 | 28 | 135 | 190 | 910 | 10 U | 10 U | 23 | 3,033 | 4,300 | 230.9 | 115.4 | -- |
| Z3 SVE INF | 9/2/15 | *12* | 2 | 187 | | 32 | 480 | 34 | 180 | 260 | 880 | 10 U | 29 | 50 | 569 | 5,500 | 101.8 | 50.9 | -- |
| Z3 SVE INF | 11/21/15 | *12* | 2 | 157 | | 10 U | 150 | 10 | 46 | 91 | 440 | 10 U | 10 U | 42 | 1,842 | 2,600 | 62.6 | 31.3 | -- |
| Z3 SVE INF | 2/16/16 | *12* | 4 | 254 | | 10 U | 200 | 10 U | 32 | 120 | 530 | 10 U | 97 | 49 | 146 | 3,300 | 78.5 | 39.3 | -- |
| | | | | | | | | | | | | | | | | | | | |
| 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 | -- |
| Z4 SVE INF | 8/4/15 | *12* | 2 | 351 | | 10 U | 230 | 21 | 121 | 250 | 1,500 | 10 U | 850 | 880 | 4,180 | 6,000 | 320.5 | 160.3 | -- |
| Z4 SVE INF | 9/2/15 | *12* | 2 | 187 | | 35 | 280 | 21 | 111 | 190 | 1,200 | 10 U | 57 | 43 | 500 | 5,900 | 107.4 | 53.7 | -- |
| Z4 SVE INF | 11/21/15 | *12* | 2 | 157 | | 10 U | 160 | 14 | 75 | 100 | 210 | 10 U | 10 U | 29 | 1,629 | 1,800 | 48.3 | 24.1 | -- |
| Z4 SVE INF | 2/16/16 | *12* | 4 | 254 | | 10 U | 230 | 10 U | 38 | 130 | 610 | 10 U | 110 | 60 | 170 | 3,800 | 90.5 | 45.2 | -- |

**Notes:**

Analytical Results = $mg/m^3$

in. Hg = inches of mercury

ppm = parts per million

lbs = pounds

TCE = tricholorethene

cVOC = chlorinated Volatile Organic Compounds

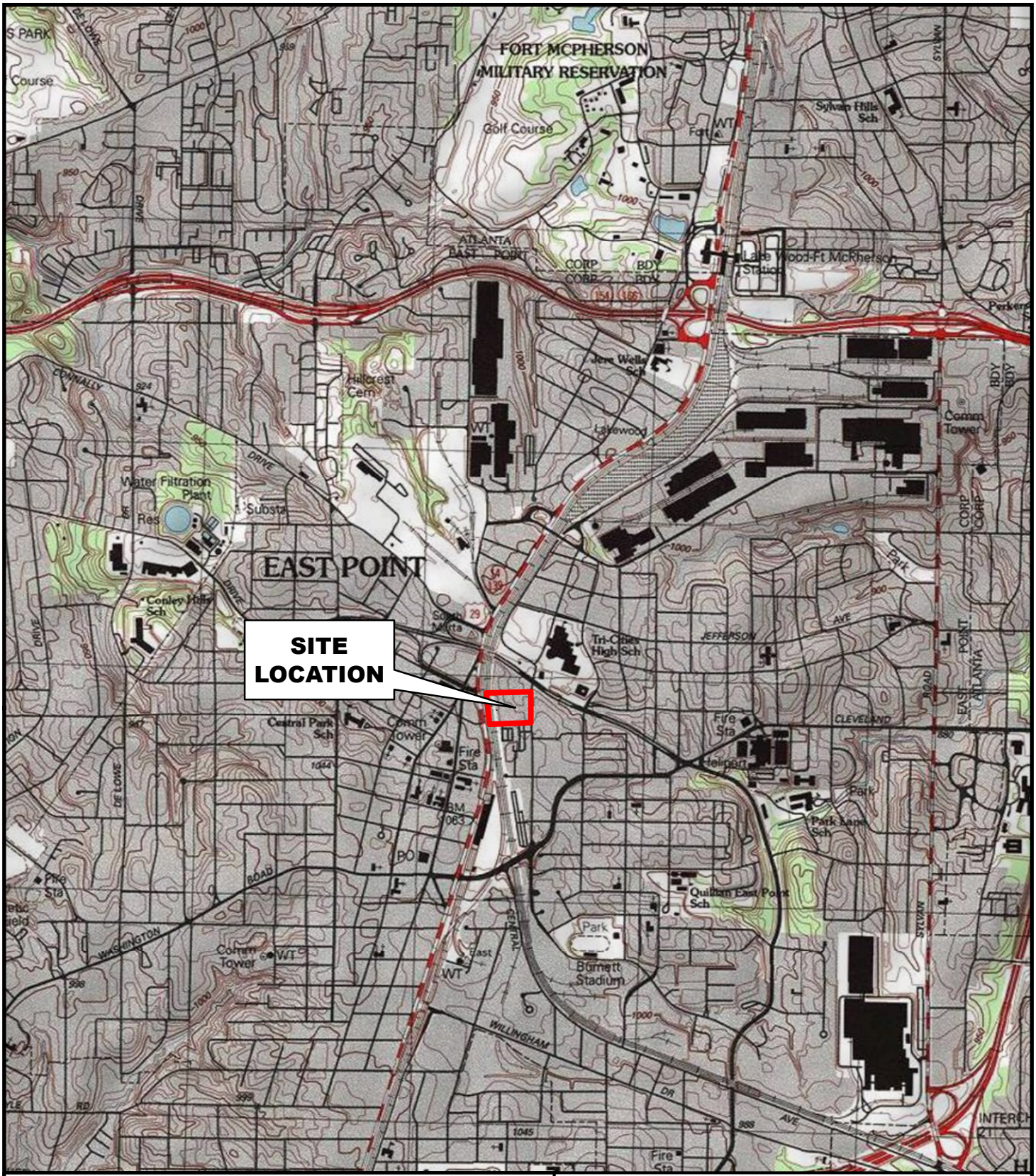
TRPH = total recoverable petroleum hydrocarbons

*Italics* = estimated (flow rate) or estimate hour meter reading

**Table 5**
**Groundwater Recovery and Treatment System Operation Summary**
**Former 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) |
| **2015** | | | | | |
| 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 | 12,711 | 65.63 | 619,080 | 619,080 | 0 |
| May | 9,981 | 37.12 | 445,982 | 445,982 | 0 |
| June | 1,540 | 7.46 | 580,551 | 580,551 | 0 |
| July | 1,392 | 6.66 | 573,213 | 573,213 | 0 |
| August | 9,605 | 53.16 | 663,673 | 663,673 | 0 |
| September | 8,380 | 39.38 | 563,451 | 563,451 | 0 |
| October | 16,422 | 81.38 | 594,171 | 594,171 | 0 |
| November | 4,926 | 19.96 | 485,790 | 485,790 | 0 |
| December | 2,641 | 10.91 | 495,323 | 495,323 | 0 |
| **Annual Total** | 121,778 | 591.37 | 6,671,226 | 6,671,226 | 0 |
| **Monthly Average** | 10,148 | 49.28 | 555,936 | 555,936 | 0 |
| **2016** | | | | | |
| January | 16,605 | 56.20 | 539,671 | 539,671 | 0 |
| February | 3,595 | 14.85 | 504,595 | 504,595 | 0 |
| March | | | | | 0 |
| April | | | | | 0 |
| May | | | | | 0 |
| June | | | | | 0 |
| July | | | | | 0 |
| August | | | | | 0 |
| September | | | | | 0 |
| October | | | | | 0 |
| November | | | | | 0 |
| December | | | | | 0 |
| **Annual Total** | 20,200 | 71.05 | 1,044,266 | 1,044,266 | 0 |
| **Monthly Average** | 10,100 | 35.53 | 522,133 | 522,133 | 0 |

# FIGURES




County Location

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

0 500 1,000 2,000

Scale in Feet

LAFARGE ROAD MARKING, INC.
2675 NORTH MARTIN STREET
EAST POINT, GEORGIA
**VRP PROGRESS REPORT #3**

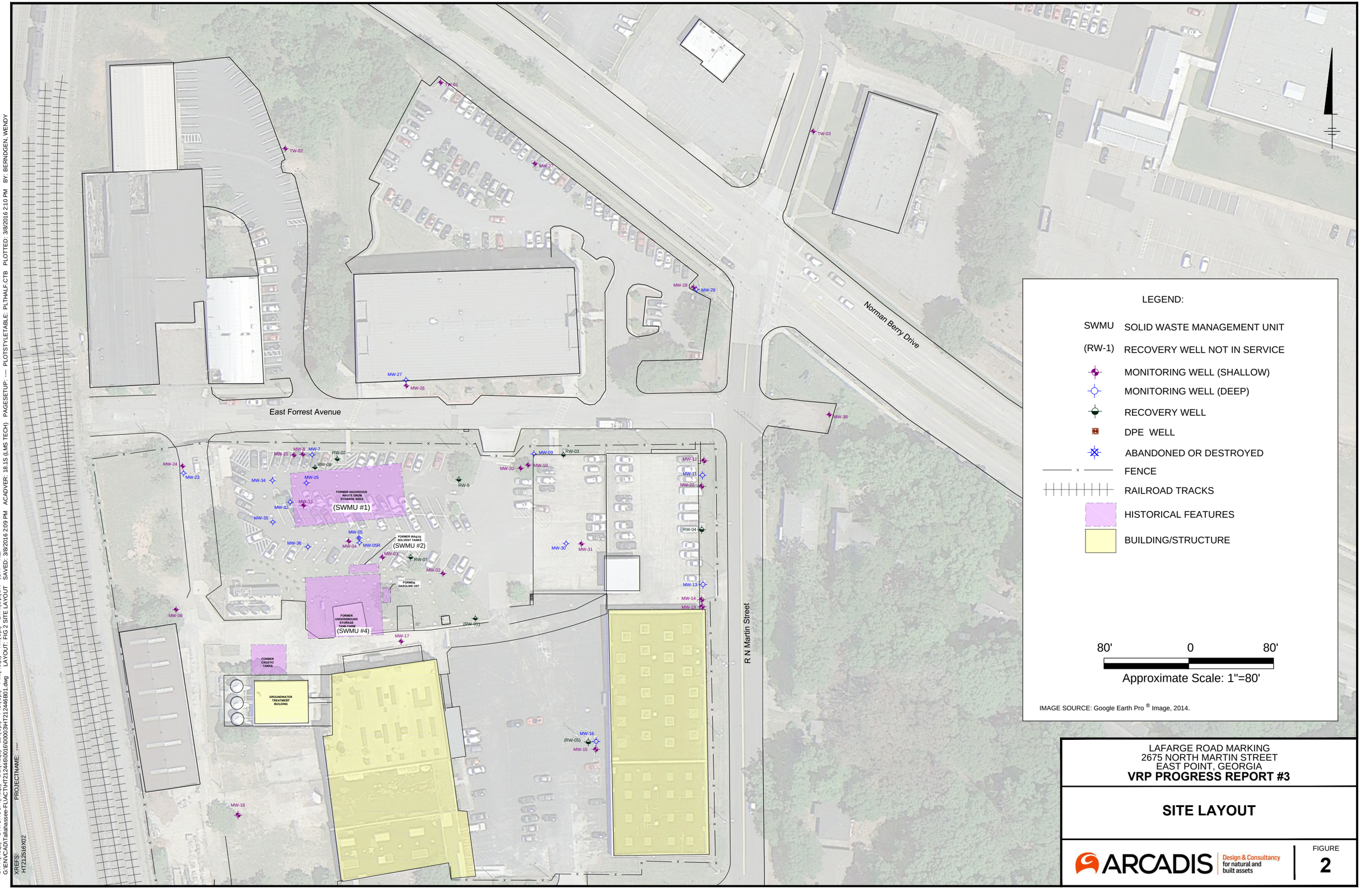
## SITE LOCATION

ARCADIS Design & Consultancy for natural and built assets

FIGURE
**1**

CITY: AUGUSTA DIV/GROUP: ENV DB: A. Saul LD: A. Saul PIC: PM: TM: TR:
Project Number: Path: G:\ENVCAD\Augusta-GA\ACT\HT212516\0012\00001\2012 Figures\Fig01_HT212516.mxd Date Saved: 10/3/2012 1:10:15 PM

CTY:(Reqd) DIV/GROUP:(Reqd) DB:(Reqd) LD:(Opt) PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
G:\ENVCAD\Tallahassee-FL\ACTIVITY\212446016\000\3HT212446B01.dwg LAYOUT: FIG 2 SITE LAYOUT SAVED: 3/8/2016 2:09 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: PLTHALF.CTB PLOTTED: 3/8/2016 2:10 PM BY: BERNDGEN, WENDY
XREFS:
HT212516X02
PROJECTNAME: ----




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 |

80' 0 80'

Approximate Scale: 1"=80'

IMAGE SOURCE: Google Earth Pro © Image, 2014.

LAFARGE ROAD MARKING
2675 NORTH MARTIN STREET
EAST POINT, GEORGIA
**VRP PROGRESS REPORT #3**

# SITE LAYOUT

ARCADIS Design & Consultancy for natural and built assets

FIGURE
**2**

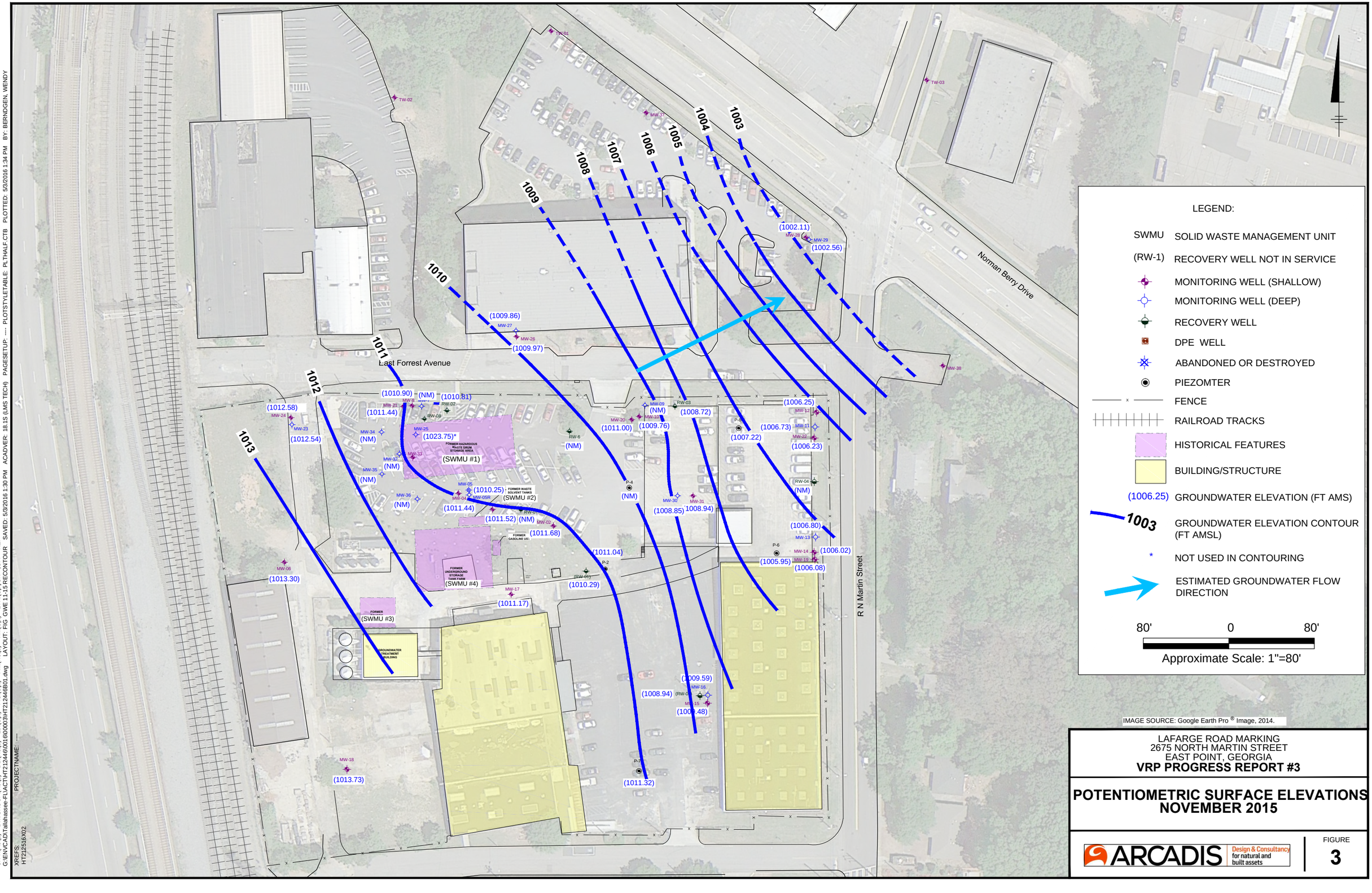



IMAGE SOURCE: Google Earth Pro © Image, 2014.

LAFARGE ROAD MARKING
2675 NORTH MARTIN STREET
EAST POINT, GEORGIA
**VRP PROGRESS REPORT #3**

# POTENTIOMETRIC SURFACE ELEVATIONS NOVEMBER 2015

ARCADIS Design & Consultancy for natural and built assets

FIGURE
**3**

CITY:(Reqd) DIV/GROUP:(Reqd) DB:(Reqd) LD:(Opt) PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
G:\ENVCAD\Tallahassee-FL\ACT\HT212446\001600003\HT212446B01.dwg LAYOUT: FIG GWE 11-15 RECONTOUR SAVED: 5/3/2016 1:30 PM ACADVER: 18.1S (LMS TECH)
XREFS: PROJECTNAME: ---
HT212516X02
PAGESETUP: ---- PLOTSTYLETABLE: PLTHALF.CTB PLOTTED: 5/3/2016 1:34 PM BY: BERNDGEN, WENDY

| | Type 2 RRS | Type 4 RRS | UNITS |
|---|---|---|---|
| cis-1,2-Dichloroethene | 70 | 200 | ug/L |
| Trichloroethene | 5 | 5.2 | ug/L |
| Vinyl Chloride | 2 | 2 | ug/L |

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
- NA — NOT ANALYZED
- cis-1,2-DICHLOROETHYLENE ISOCONTOUR (TYPE 1 RRS: 70 µg/L) DASHED WHERE INFERRED
- TRICHLOROETHENE ISOCONTOUR (TYPE 1 RRS: 5 µg/L) DASHED WHERE INFERRED
- VINYL CHLORIDE ISOCONTOUR (TYPE 1 RRS: 2 µg/L)

80' 0 80'

Approximate Scale: 1"=80'

IMAGE SOURCE: Google Earth Pro © Image, 2014.

LAFARGE ROAD MARKING
2675 NORTH MARTIN STREET
EAST POINT, GEORGIA

**VRP PROGRESS REPORT #3**

# CHLORINATED VOCs GROUNDWATER SUMMARY

ARCADIS

FIGURE 4A

East Forrest Avenue

R N Martin Street

(SWMU #1)

(SWMU #2)

(SWMU #4)

FORMER HAZARDOUS WASTE DRUM STORAGE AREA

FORMER WASTE OIL VIEW AREA

FORMER GASOLINE UST

FORMER UNDERGROUND STORAGE TANK FARM

FORMER CAUSTIC TANKS

GROUNDWATER TREATMENT BUILDING

| MW-05R | |
|---|---|
| | 11/13/2015 |
| cis-1,2-Dichloroethene | 19 |
| Trichloroethene | 25 |
| Vinyl Chloride | <2.0 |

| RW-02 | |
|---|---|
| | 11/17/2015 |
| cis-1,2-Dichloroethene | 470 |
| Trichloroethene | 32 |
| Vinyl Chloride | 370 |

| TW-02 | |
|---|---|
| | 3/3/2016 |
| cis-1,2-Dichloroethene | <5.0 |
| Trichloroethene | <5.0 |
| Vinyl Chloride | <2.0 |

| TW-01 | |
|---|---|
| | 3/3/2016 |
| cis-1,2-Dichloroethene | 92 |
| Trichloroethene | 8.2 |
| Vinyl Chloride | <2.0 |

| TW-03 | |
|---|---|
| | 3/3/2016 |
| cis-1,2-Dichloroethene | <5.0 |
| Trichloroethene | <5.0 |
| Vinyl Chloride | <2.0 |

| MW-07 | | |
|---|---|---|
| | 9/21/2015 | 11/17/2015 |
| cis-1,2-Dichloroethene | <500 | 860 |
| Trichloroethene | 18,000 | 10,000 |
| Vinyl Chloride | <200 | 42 |

| RW-07 | |
|---|---|
| | 11/17/2015 |
| cis-1,2-Dichloroethene | 9.3 |
| Trichloroethene | <5.0 |
| Vinyl Chloride | 3.2 |

| MW-27 | |
|---|---|
| | 11/16/2015 |
| cis-1,2-Dichloroethene | 630 |
| Trichloroethene | 23 |
| Vinyl Chloride | <2.0 |

| MW-37 | |
|---|---|
| | 12/31/2015 |
| cis-1,2-Dichloroethene | 520 |
| Trichloroethene | 26 |
| Vinyl Chloride | <2.0 |

| RW-06 | |
|---|---|
| | 11/17/2015 |
| cis-1,2-Dichloroethene | 190 |
| Trichloroethene | 11 |
| Vinyl Chloride | 25 |

| MW-20 | |
|---|---|
| | 11/19/2015 |
| cis-1,2-Dichloroethene | 28 |
| Trichloroethene | 14 |
| Vinyl Chloride | <2.0 |

| MW-09 | |
|---|---|
| | 11/19/2015 |
| cis-1,2-Dichloroethene | 9.1 |
| Trichloroethene | <5.0 |
| Vinyl Chloride | 2.6 |

| MW-03 | |
|---|---|
| | 11/13/2015 |
| cis-1,2-Dichloroethene | <5.0 |
| Trichloroethene | <5.0 |
| Vinyl Chloride | <2.0 |

| MW-26 | |
|---|---|
| | 11/16/2015 |
| cis-1,2-Dichloroethene | 42 |
| Trichloroethene | <5.0 |
| Vinyl Chloride | <2.0 |

| RW-08 | | |
|---|---|---|
| | 11/17/2015 | 5/20/2015 |
| cis-1,2-Dichloroethene | 390 | 830 |
| Trichloroethene | 290 | 410 |
| Vinyl Chloride | 13 | 4.9 |

| MW-08 | |
|---|---|
| | 11/16/2015 |
| cis-1,2-Dichloroethene | 95 |
| Trichloroethene | <5.0 |
| Vinyl Chloride | 160 |

| MW-28 | |
|---|---|
| | 11/20/2015 |
| cis-1,2-Dichloroethene | 1,900 |
| Trichloroethene | 280 |
| Vinyl Chloride | 17 |

| MW-21 | | |
|---|---|---|
| | 8/31/2015 | 11/16/2015 |
| cis-1,2-Dichloroethene | 1,700 | 340 |
| Trichloroethene | 5.5 | 8.2 |
| Vinyl Chloride | 130 | 160 |

| MW-29 | |
|---|---|
| | 11/20/2015 |
| cis-1,2-Dichloroethene | 2,000 |
| Trichloroethene | 380 |
| Vinyl Chloride | 27 |

| MW-25 | |
|---|---|
| | 5/21/2015 |
| cis-1,2-Dichloroethene | <5.0 |
| Trichloroethene | <5.0 |
| Vinyl Chloride | <2.0 |

| MW-10 | |
|---|---|
| | 11/19/2015 |
| cis-1,2-Dichloroethene | <5.0 |
| Trichloroethene | <5.0 |
| Vinyl Chloride | <2.0 |

| RW-03 | |
|---|---|
| | 11/17/2015 |
| cis-1,2-Dichloroethene | 28 |
| Trichloroethene | 5.6 |
| Vinyl Chloride | 4.9 |

| MW-34 | |
|---|---|
| | 11/16/2015 |
| cis-1,2-Dichloroethene | <5.0 |
| Trichloroethene | 94 |
| Vinyl Chloride | <2.0 |

| MW-38 | | |
|---|---|---|
| | | 12/31/2015 |
| cis-1,2-Dichloroethene | | 11 |
| Trichloroethene | | 5.5 |
| Vinyl Chloride | | <2.0 |

| DPE-109 | |
|---|---|
| | 8/31/2015 |
| cis-1,2-Dichloroethene | 440 |
| Trichloroethene | 16,000 |
| Vinyl Chloride | <20 |

| MW-12 | |
|---|---|
| | 11/19/2015 |
| cis-1,2-Dichloroethene | 47 |
| Trichloroethene | 24 |
| Vinyl Chloride | <2.0 |

| MW-24 | |
|---|---|
| | 11/11/2015 |
| cis-1,2-Dichloroethene | <5.0 |
| Trichloroethene | <5.0 |
| Vinyl Chloride | <2.0 |

| MW-11 | |
|---|---|
| | 11/19/2015 |
| cis-1,2-Dichloroethene | <5.0 |
| Trichloroethene | <5.0 |
| Vinyl Chloride | <2.0 |

| MW-23 | |
|---|---|
| | 11/11/2015 |
| cis-1,2-Dichloroethene | <5.0 |
| Trichloroethene | 5.7 |
| Vinyl Chloride | <2.0 |

| MW-22 | |
|---|---|
| | 11/19/2015 |
| cis-1,2-Dichloroethene | <5.0 |
| Trichloroethene | <5.0 |
| Vinyl Chloride | <2.0 |

| MW-32 | |
|---|---|
| | 11/17/2015 |
| cis-1,2-Dichloroethene | 460 |
| Trichloroethene | 26,000 |
| Vinyl Chloride | <20 |

| MW-13 | |
|---|---|
| | 11/19/2015 |
| cis-1,2-Dichloroethene | <5.0 |
| Trichloroethene | <5.0 |
| Vinyl Chloride | <2.0 |

| MW-06 | |
|---|---|
| | 11/13/2015 |
| cis-1,2-Dichloroethene | <5.0 |
| Trichloroethene | <5.0 |
| Vinyl Chloride | <2.0 |

| MW-14 | |
|---|---|
| | 11/17/2015 |
| cis-1,2-Dichloroethene | <5.0 |
| Trichloroethene | <5.0 |
| Vinyl Chloride | <2.0 |

| MW-35 | |
|---|---|
| | 11/16/2015 |
| cis-1,2-Dichloroethene | 110 |
| Trichloroethene | 760 |
| Vinyl Chloride | <2.0 |

| MW-19 | |
|---|---|
| | 1/17/2015 |
| cis-1,2-Dichloroethene | <5.0 |
| Trichloroethene | <5.0 |
| Vinyl Chloride | <2.0 |

| MW-33 | |
|---|---|
| | 11/16/2015 |
| cis-1,2-Dichloroethene | 28 |
| Trichloroethene | <5.0 |
| Vinyl Chloride | 18 |

| MW-31 | |
|---|---|
| | 11/12/2015 |
| cis-1,2-Dichloroethene | <5.0 |
| Trichloroethene | <5.0 |
| Vinyl Chloride | 31 |

| DPE-118 | |
|---|---|
| | 8/31/2015 |
| cis-1,2-Dichloroethene | 633 |
| Trichloroethene | 18 |
| Vinyl Chloride | <2.0 |

| DPE-313 | |
|---|---|
| | 9/2/2015 |
| cis-1,2-Dichloroethene | 14 |
| Trichloroethene | <5.0 |
| Vinyl Chloride | <2.0 |

| DPE-305 | |
|---|---|
| | 8/31/2015 |
| cis-1,2-Dichloroethene | 5,400 |
| Trichloroethene | <2,500 |
| Vinyl Chloride | <2,500 |

| DPE-408 | |
|---|---|
| | 9/2/2015 |
| cis-1,2-Dichloroethene | 19 |
| Trichloroethene | <5.0 |
| Vinyl Chloride | <2.0 |

| MW-30 | |
|---|---|
| | 11/12/2015 |
| cis-1,2-Dichloroethene | <5.0 |
| Trichloroethene | <5.0 |
| Vinyl Chloride | <2.0 |

| MW-36 | |
|---|---|
| | 11/17/2015 |
| cis-1,2-Dichloroethene | 15,000 |
| Trichloroethene | 1,200 |
| Vinyl Chloride | 78 |

| MW-04 | |
|---|---|
| | 11/13/2015 |
| cis-1,2-Dichloroethene | <5.0 |
| Trichloroethene | <5.0 |
| Vinyl Chloride | <2.0 |

| MW-17 | |
|---|---|
| | 11/12/2015 |
| cis-1,2-Dichloroethene | <5.0 |
| Trichloroethene | <5.0 |
| Vinyl Chloride | <2.0 |

| MW-02 | |
|---|---|
| | 11/13/2015 |
| cis-1,2-Dichloroethene | <5.0 |
| Trichloroethene | <5.0 |
| Vinyl Chloride | <2.0 |

| MW-15 | |
|---|---|
| | 11/12/2015 |
| cis-1,2-Dichloroethene | <5.0 |
| Trichloroethene | <5.0 |
| Vinyl Chloride | <2.0 |

| MW-16 | |
|---|---|
| | 11/12/2015 |
| cis-1,2-Dichloroethene | <5.0 |
| Trichloroethene | <5.0 |
| Vinyl Chloride | <2.0 |

| MW-18 | |
|---|---|
| | 11/12/2015 |
| cis-1,2-Dichloroethene | <5.0 |
| Trichloroethene | <5.0 |
| Vinyl Chloride | <2.0 |

| DPE-307 | |
|---|---|
| | 8/31/2015 |
| cis-1,2-Dichloroethene | <5,000 |
| Trichloroethene | <5,000 |
| Vinyl Chloride | <2,000 |

CITY:(Reqd) DIV/GROUP:(Reqd) DB:(Reqd) LD:(Opt) PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(Opt)ON=*OFF=*REF*
G:\ENVCAD\Tallahassee-FL\ACTIVITY\T21246\001\600\03\H721246G03.dwg LAYOUT: FIG 4A GW TAG SAVED: 3/17/2016 6:16 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: PLTQUICK.CTB PLOTTED: 3/30/2016 11:28 AM BY: BERNDGEN, WENDY
XREFS: H721251602 PROJECTNAME: ----

| | Type 1 RRS | Type 4 RRS | UNITS |
|---|---|---|---|
| Benzene | 5 | 8.7 | ug/L |
| Toluene | 1000 | 5200 | ug/L |
| Ethylbenzene | 700 | 700 | ug/L |
| Total Xylenes | 10,000 | 10,000 | ug/L |

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
- NA — NOT ANALYZED
- BTEX ISOCONTOUR (TYPE 1 RRS)

80' 0 80'

Approximate Scale: 1"=80'

IMAGE SOURCE: Google Earth Pro ® Image, 2014.

LAFARGE ROAD MARKING
2675 NORTH MARTIN STREET
EAST POINT, GEORGIA
**VRP PROGRESS REPORT #3**

**BTEX GROUNDWATER SUMMARY**

ARCADIS

FIGURE
**4B**

CITY:(Req'd) DIV/GROUP:(Req'd) DB:(Req'd) LD:(Opt) PIC:(Opt) PM:(Req'd) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
G:\ENVCAD\Tallahassee-FL\ACTIVITY\212446\0160003\H212246C02.dwg LAYOUT: FIG 4B GW TKG SAVED: 3/17/2016 6:16 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 3/30/2016 10:17 AM BY: BERNDGEN, WENDY
XREFS: H121216X02 PROJECTNAME: ----

East Forrest Avenue

SVE-101 SVE-102 SVE-103 SVE-201 SVE-202

AS-101 AS-102 AS-103 AS-201 AS-202

RW-02

SVE-104 SVE-105 RW-08 SVE-106 SVE-107 SVE-203 SVE-204 SVE-205

AS-104 AS-105 AS-106 AS-203 AS-204 AS-205

SVE-108 DPE-109 SVE-110 SVE-111 SVE-206 SVE-207 SVE-208 SVE-209

AS-107 AS-108 AS-109 AS-206 AS-207 AS-208

SVE-112 SVE-113 SVE-114 SVE-115 SVE-116 SVE-210 SVE-211 SVE-212

AS-110 AS-111 AS-112 AS-209 AS-210 AS-211

SVE-117 DPE-118 SVE-119 SVE-213 SVE-214 SVE-215 SVE-216

AS-113 AS-114 AS-115 AS-212 AS-213 AS-214 AS-215

SVE-301 SVE-302 SVE-303 SVE-304 DPE-305 SVE-217 SVE-218 SVE-219 SVE-220

AS-301 AS-302 AS-303 AS-304 AS-401 AS-402 AS-403

ZONE 2

SVE-306 DPE-307 SVE-308 SVE-401 SVE-402 SVE-403 SVE-404 SVE-405

AS-306 AS-307 AS-308 AS-404 AS-405 AS-406 AS-407 AS-408

SVE-309 SVE-310 SVE-311 SVE-312 SVE-406 SVE-407 SVE-409 SVE-410

AS-305 AS-309 AS-310 AS-311 AS-312 AS-313 AS-409 AS-410 AS-411 AS-412 AS-413 AS-414 AS-415 AS-416 AS-417

DPE-313 SVE-411 SVE-412 SVE-413 SVE-414 SVE-415 SVE-416

SVE-314 SVE-315 SVE-316 SVE-317 SVE-417 SVE-418 SVE-419 SVE-420

AS-314

SVE-318 SVE-319 SVE-320 SVE-321

RW-01 RW-03 RW-06 RW-07

FORMER HAZARDOUS WASTE DRUM STORAGE AREA

FORMER WASTE SOLVENT TANKS

FORMER GASOLINE UST

FORMER UNDERGROUND STORAGE TANK FARM

FORMER CAUSTIC TANKS

GROUNDWATER TREATMENT BUILDING

LEGEND:

- RECENTLY INSTALLED AIR SPARGE WELL
- RECENTLY INSTALLED SOIL VAPOR EXTRACTION WELL
- FENCE
- RAILROAD TRACKS
- HISTORICAL FEATURES
- BUILDING/STRUCTURE

30' 0 30'

Approximate Scale: 1"=30'

IMAGE SOURCE: Google Earth Pro ® Image, 2014.

LAFARGE ROAD MARKING
2675 NORTH MARTIN STREET
EAST POINT, GEORGIA

# REMEDIATION WELL LAYOUT

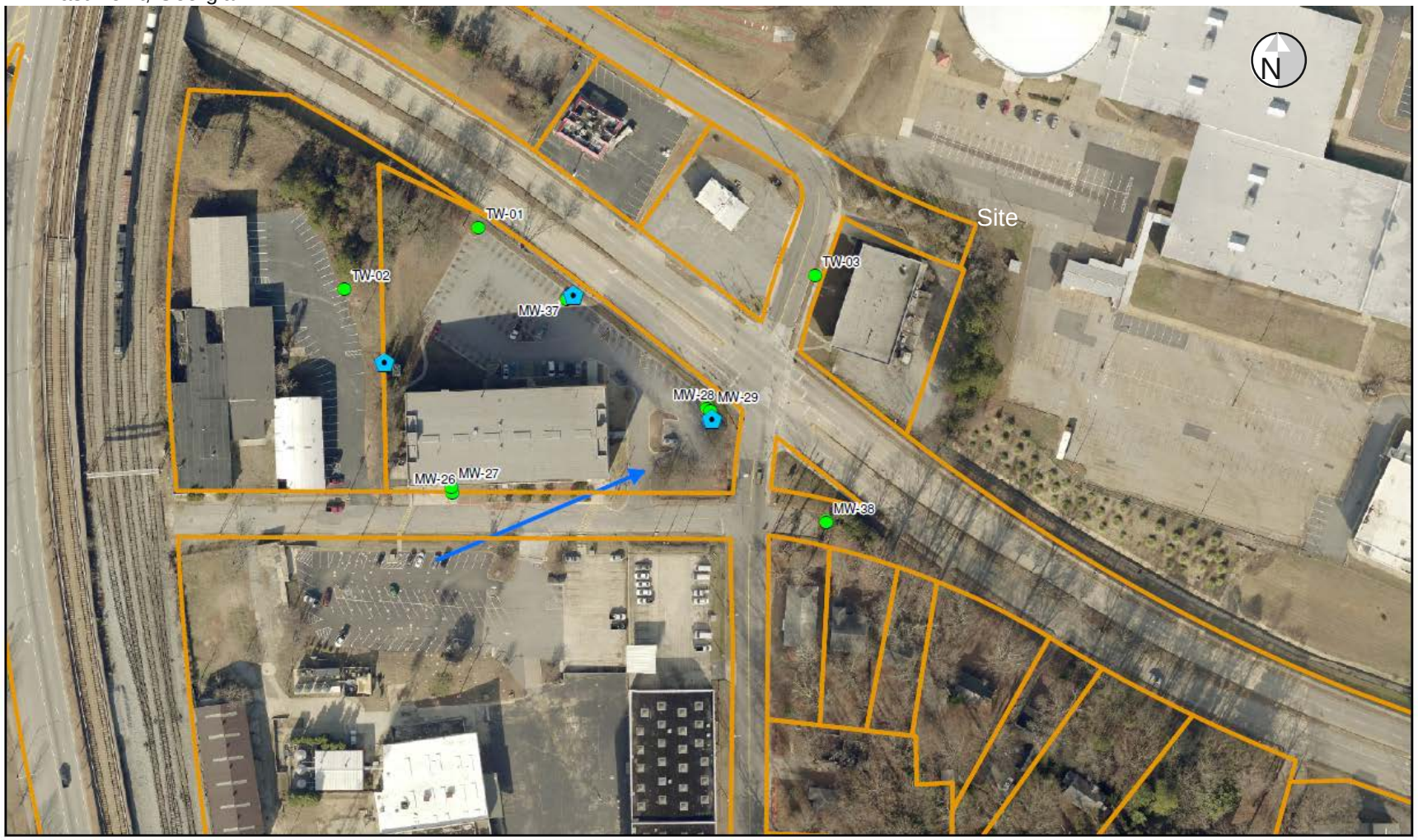
ARCADIS Design & Consultancy for natural and built assets

FIGURE 5

CITY:(Reqd) DIV/GROUP:(Reqd) DB:(Reqd) LD:(Opt) PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF* ACADVER: 18.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: PLTHALF.CTB PLOTTED: 3/8/2016 3:31 PM BY: BERNDGEN, WENDY
G:\ENVCAD\Tallahassee-FL\AVD\2015\HT212446\00150002\HT212516B02.dwg LAYOUT: FIG 5 SAVED: 10/13/2015 5:51 PM
XREFS: HT212516X04 PROJECTNAME: ----

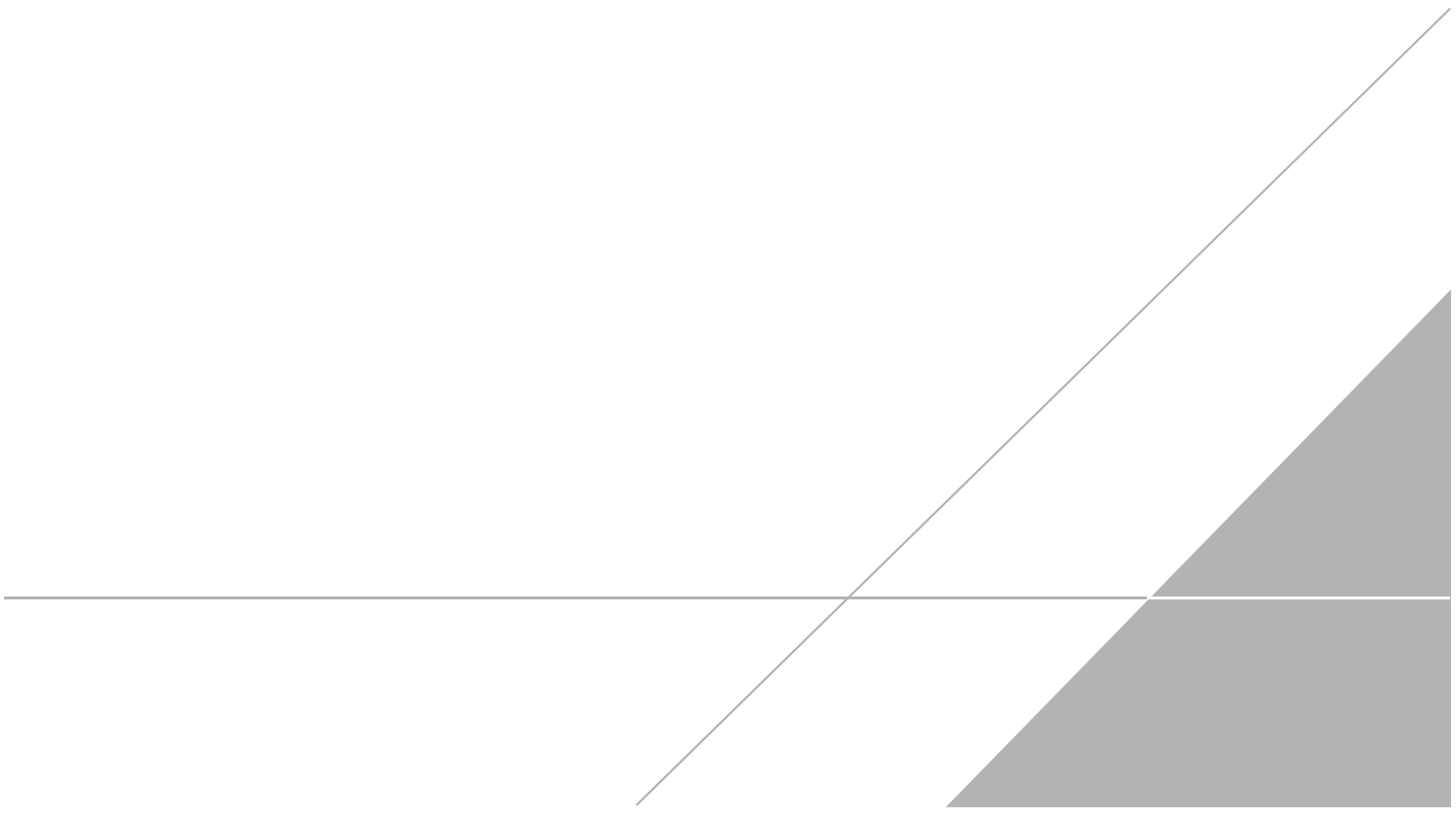
## Figure 6
## Proposed Well Locations

Former Lafarge Road
Marking
East Point, Georgia



# APPENDIX A

## Purging and Sampling Logs



# ARCADIS Groundwater Sampling Form

Page ____ of ____

Well ID MW-2 | Weather Sunny, Cool | Date: 11-13-15

Project Name/Location Lafarge - East Point, GA | Project No. HT212446.0014

Total Well Depth (ft-BTOC) 27.7 | Screen Interval (ft-BTOC) 15.5 - 25 | Purge Time: Start: 0945 End: 1015 | Sampled by: M. Myers

Static Water Level (ft-BTOC) 14.84 | Pump Intake (ft-BTOC) 22 | Sample Time: 1020

Water Column (ft) 12.96 | 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 / None

| Time | Purge Rate (gpm) or (ml/min) | Volume Purged (ga) 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0955 | 0.03 | 0.30 | 22 | 15.73 | 16.74 | 183 | 8.50 | 7.92 | 101.9 | 10.3 | No |
| 1000 | 0.03 | 0.45 | 22 | 15.80 | 16.90 | 182 | 8.34 | 7.54 | 90.2 | 9.38 | No |
| 1005 | 0.03 | 0.60 | 22 | 15.91 | 16.89 | 174 | 8.05 | 7.82 | 89.2 | 9.95 | No |
| 1010 | 0.03 | 0.75 | 22 | 15.81 | 16.90 | 171 | 8.01 | 8.30 | 90.3 | 8.39 | No |
| 1015 | 0.03 | 0.90 | 22 | 15.24 | 16.96 | 171 | 8.00 | 8.46 | 90.9 | 8.68 | No |
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MM 11-13-15

**Constituents Sampled**

Check Boxes as appropriate:

☑ VOCs (8260B)

☑ Other (list): Metals

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)

# ARCADIS Groundwater Sampling Form

Page 1 of 1

Well ID MW-3 | Weather Sunny, Cool | Date: 11-13-15

Project Name/Location Lafarge - East Point, GA | Project No. HT212446.0014

Total Well Depth (ft-BTOC) 32.8 | Screen Interval (ft-BTOC) 22.8-32.8 | Purge Time: Start: ~~1050~~ 1110 | Sampled by: M. Myrick

Static Water Level (ft-BTOC) 16.73 | Pump Intake (ft-BTOC) 27 | End: 1140 | Sample Time: ~~1140~~ 1150

Water Column (ft) 16.07 | 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 2.57 | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1120 ~~1100~~ | 0.03 | 0.30 | 27 | 16.92 | 19.69 | 133 | 7.20 | 7.20 | 86.2 | 15.2 | NO |
| 1125 | 0.03 | 0.45 | 27 | 16.93 | 19.71 | 131 | 7.14 | 7.03 | 88.1 | 12.7 | NO |
| 1130 | 0.03 | 0.60 | 27 | 16.93 | 19.72 | 130 | 6.99 | 7.11 | 88.8 | 11.5 | NO |
| 1135 | 0.03 | 0.75 | 27 | 16.93 | 19.75 | 130 | 7.06 | ~~8~~ 7.23 | 89.6 | 7.45 | NO |
| 1140 | 0.03 | 0.90 | 27 | 16.93 | 19.78 | 129 | 7.04 | 7.32 | 89.7 | 6.37 | NO |
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MW 11-13-15

**Constituents Sampled**

Check Boxes as appropriate:

☑ VOCs (8260B)

☑ Other (list): MEK

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

# ARCADIS Groundwater Sampling Form

Page 1 of 1

Well ID MW-4 | Weather Sunny, Cool | Date: 11-13-15

Project Name/Location Lafarge - East Point, GA | Project No. HT212446.0014

Total Well Depth (ft-BTOC) 40 | Screen Interval (ft-BTOC) 19.5 - 39 | Purge Time: Start: 1305 End: 1335 | Sampled by: M. Myers

Static Water Level (ft-BTOC) 17.53 | Pump Intake (ft-BTOC) 35 | Sample Time: 1345

Water Column (ft) 22.47 | Purge Method: (circle one) low flow/low volume volume purge | Volume Purged (mL or gal) 0.90 ~~1345 rm~~ | Duplicate ID: NA

Casing Volume Multiplier 0.16

Well Volume 3.60 | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1315 | 0.03 | 0.30 | 35 | 18.07 | 24.36 | 215 | 6.21 | 2.88 | 232.9 | 27.6 | No |
| 1320 | 0.03 | 0.45 | 35 | 18.11 | 24.19 | 212 | 6.21 | 1.41 | 132.5 | 12.7 | No |
| 1325 | 0.03 | 0.60 | 35 | 18.12 | 23.67 | 212 | 6.29 | 1.04 | 102.5 | 9.23 | No |
| 1330 | 0.03 | 0.75 | 35 | 18.12 | 23.64 | 213 | 6.27 | 1.03 | 100.9 | 9.53 | No |
| 1335 | 0.03 | 0.90 | 35 | 18.13 | 23.61 | 214 | 6.28 | 0.99 | 98.5 | 9.68 | No |
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MM 11-13-15

**Constituents Sampled**

Check Boxes as appropriate:

☑ VOCs (8260B)

☑ Other (list): Metals

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

# ARCADIS Groundwater Sampling Form

Page 1 of 1

Well ID MW-5R | Weather Sunny, Cool | Date: 11-13-15

Project Name/Location Lafarge - East Point, GA | Project No. HT212446.0014

Total Well Depth (ft-BTOC) 61.2 | Screen Interval (ft-BTOC) 45-60 | Purge Time: Start: 1200 End: 1230 | Sampled by: M. Myers

Static Water Level (ft-BTOC) 17.84 | Pump Intake (ft-BTOC) 52 | Sample Time: 1235

Water Column (ft) 43.36 | Purge Method: (circle one) low flow/low volume volume purge | Volume Purged (mL or gal) 0.90 | Duplicate ID: MW

Casing Volume Multiplier 0.16

Well Volume 6.94 | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1210 | 0.03 | 0.30 | 52 | 18.47 | 22.74 | 162 | 6.08 | 3.20 | 166.6 | 1.60 | No |
| 1215 | 0.03 | 0.45 | 52 | 18.73 | 23.01 | 161 | 6.07 | 2.67 | 120.8 | 1.67 | No |
| 1220 | 0.03 | 0.60 | 52 | 18.75 | 23.72 | 160 | 6.08 | 2.60 | 120.2 | 0.54 | No |
| 1225 | 0.03 | 0.75 | 52 | 18.76 | 23.70 | 160 | 6.08 | 2.61 | 120.7 | 0.50 | No |
| 1230 | 0.03 | 0.90 | 52 | 18.76 | 23.53 | 158 | 6.03 | 2.64 | 123.9 | 0.49 | No |
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MW 11-13-15

**Constituents Sampled**

Check Boxes as appropriate:

☑ VOCs (8260B)

☑ Other (list): Metals

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

# ARCADIS Groundwater Sampling Form

Page 1 of 1

Well ID MW-6 | Weather Sunny, Lite | Date: 11-11-15

Project Name/Location Lafarge - East Point, GA | Project No. HT212446.0014

Total Well Depth (ft-BTOC) 40 | Screen Interval (ft-BTOC) (E. 39.5 | Purge Time: Start: 1450 End: 1520 | Sampled by: MM/JK

Static Water Level (ft-BTOC) 28.18 | Pump Intake (ft-BTOC) 35 | Sample Time: 1525

Water Column (ft) 11.82 | 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 1.89 | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1500 | 0.03 | 0.30 | 35 | 28.21 | 19.41 | 155 | 4.07 | 3.78 | 288.4 | 2.04 | No |
| 1505 | 0.03 | 0.45 | 35 | 28.21 | 19.21 | 153 | 4.10 | 3.42 | 292.6 | 1.60 | No |
| 1510 | 0.03 | 0.60 | 35 | 28.21 | 19.28 | 152 | 4.11 | 3.38 | 292.6 | 1.11 | No |
| 1515 | 0.03 | 0.75 | 35 | 28.21 | 19.17 | 152 | 4.08 | 3.05 | 290.0 | 1.08 | No |
| 1520 | 0.03 | 0.90 | 35 | 28.21 | 19.15 | 152 | 4.09 | 3.17 | 289.9 | 1.18 | No |
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**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)

# ARCADIS Groundwater Sampling Form



Well ID MW-7 | Weather Partly Cloudy, Warm | Date: 11-17-15

Project Name/Location Lafarge - East Point, GA | Project No. HT212446.0014

Total Well Depth (ft-BTOC) | Screen Interval (ft-BTOC) | Purge Time: Start: | Sampled by: M.My

Static Water Level (ft-BTOC) | Pump Intake (ft-BTOC) | End: | Sample Time: 1245

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 Bailer | Appearance (color/odor) clear / NAS

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1241K | ✓ | ✓ | ✓ | ✓ | 19.71 | 164 | 6.00 | 1.97 | 52.2 | 11.2 | NO |
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MW-7 11-17-15

**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

# ARCADIS Groundwater Sampling Form



Well ID: MW-8 | Weather: Sunny, Cool | Date: 11-16-15

Project Name/Location: Lafarge - East Point, GA | Project No.: HT212446.0014

Total Well Depth (ft-BTOC): 39.3 | Screen Interval (ft-BTOC): 29 - 38.3 | Purge Time: Start: 1450 End: 1545 | Sampled by: M. Mya

Static Water Level (ft-BTOC): 16.36 | Pump Intake (ft-BTOC): 34 | Sample Time: 1550

Water Column (ft): 22.94 | Purge Method: (circle one) low flow/low volume / volume purge | Volume Purged (mL or gal): 1.65 | Duplicate ID: N/A

Casing Volume Multiplier: 0.16

Well Volume: 3.67 | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1500 | 0.03 | 0.30 | 34 | ~~16.51~~ 16.47 | 20.70 | 177 | 7.43 | 1.80 | 50.1 | 46.3 | No |
| 1505 | 0.03 | 0.45 | 34 | 16.51 | 20.71 | 178 | 7.43 | 1.67 | 48.4 | 46.9 | No |
| 1510 | 0.03 | 0.60 | 34 | 16.51 | 20.69 | 179 | 7.43 | 1.18 | 45.2 | 50.4 | No |
| 1515 | 0.03 | 0.75 | 34 | 16.51 | 20.65 | 180 | 7.45 | 1.81 | 77.9 | 59.7 | No |
| 1525 | 0.03 | 1.05 | 34 | 16.50 | 20.46 | 182 | 7.39 | 0.75 | 29.6 | 39.9 | No |
| 1535 | 0.03 | 1.35 | 34 | 16.50 | 20.22 | 184 | 7.36 | 0.56 | 17.1 | 523.7 | NO |
| 1540 | 0.03 | 1.50 | 34 | 16.49 | 20.32 | 185 | 7.34 | 0.51 | 11.5 | 14.8 | No |
| 1545 | 0.03 | 1.65 | 34 | 16.49 | 20.29 | 185 | 7.35 | 0.51 | 8.0 | 8.37 | No |
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MM 11-16-15

**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

# ARCADIS Groundwater Sampling Form

Page 1 of 1

Well ID MW-14 | Weather Cloudy, Cool | Date: 11-17-15

Project Name/Location Lafarge - East Point, GA | Project No. HT212446.0014

Total Well Depth (ft-BTOC) 73.7 | Screen Interval (ft-BTOC) 53.5 - 73.0 | Purge Time: Start: 1440 End: 1510 | Sampled by: M. Myr

Static Water Level (ft-BTOC) 13.83 | Pump Intake (ft-BTOC) 68 | Sample Time: 1515

Water Column (ft) 59.87 | Purge Method: (circle one) ~~low flow/low volume~~ volume purge | Volume Purged (mL or ~~gal~~) 0.90 | Duplicate ID:

Casing Volume Multiplier 0.16

Well Volume 9.58 | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1450 | 0.03 | 0.30 | 68 | 14.06 ~~21.23~~ | 21.23 | 144 | 5.33 ~~4.69~~ | 4.69 | 169.5 | 8.28 | No |
| 1455 | 0.03 | 0.45 | 68 | 14.11 | 20.91 | 142 | 4.97 | 1.62 | 151.2 | 1.96 | No |
| 1500 | 0.03 | 0.60 | 68 | 14.10 | 20.82 | 142 | 4.96 | 1.25 | 150.7 | 0.98 | No |
| 1505 | 0.03 | 0.75 | 68 | 14.10 | 20.82 | 142 | 5.02 | 0.99 | 146.4 | 0.39 | No |
| 1510 | 0.03 | 0.90 | 68 | 14.10 | 20.87 | 142 | 5.02 | 1.00 | 146.2 | 0.47 | No |
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**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

# ARCADIS Groundwater Sampling Form

Page 1 of 1

Well ID MW-15 Weather Cloudy, Moderate Temp. Date: 11-12-15

Project Name/Location Lafarge - East Point, GA Project No. HT212446.0014

Total Well Depth (ft-BTOC) 37 Screen Interval (ft-BTOC) 18-36 Purge Time: Start: 1025 End: 1105 Sampled by: M. Myers

Static Water Level (ft-BTOC) 19.62 Pump Intake (ft-BTOC) 30 Sample Time: 1110

Water Column (ft) 17.38 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 2.78 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1045 | 0.03 | 0.30 | 30 | 19.66 | 21.32 | 151 | 5.68 | 2.23 | 174.5 | 4.77 | No |
| 1050 | 0.03 | 0.45 | 30 | 19.66 | 21.29 | 147 | 5.68 | 1.66 | 176.5 | 2.34 | No |
| 1055 | 0.03 | 0.60 | 30 | 19.67 | 21.26 | 145 | 5.67 | 1.70 | 166.1 | 1.63 | No |
| 1100 | 0.03 | 0.75 | 30 | 19.67 19.67 | 21.41 | 145 | 5.69 | 1.05 | 103.6 | 1.84 | No |
| 1105 | 0.03 | 0.90 | 30 | 19.67 | 21.37 | 147 | 5.70 | 6.99 | 38.3 | 5.87 | No |

MM 11-12-15

**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

# ARCADIS Groundwater Sampling Form



Well ID MW-16 | Weather Cloudy | Date: 11-12-15

Project Name/Location Lafarge - East Point, GA | Project No. HT212446.0014

Total Well Depth (ft-BTOC) 56 | Screen Interval (ft-BTOC) 45-55 | Purge Time: Start: 1120 End: 1150 | Sampled by: M. Myers

Static Water Level (ft-BTOC) 19.56 | Pump Intake (ft-BTOC) 50 | Sample Time: 1155

Water Column (ft) 36.44 | 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 5.83 | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1130 | 0.03 | 0.30 | 50 | 19.82 | 21.51 | 149 | 6.09 | 3.17 | 120.1 | 2.29 | No |
| 1135 | 0.03 | 0.45 | 50 | 19.81 | 21.52 | 149 | 6.13 | 3.09 | 126.6 | 0.91 | No |
| 1140 | 0.03 | 0.60 | 50 | 19.81 | 21.60 | 151 | 6.12 | 2.48 | 134.3 | 0.72 | No |
| 1145 | 0.03 | 0.75 | 50 | 19.81 | 21.67 | 151 | 6.05 | 2.29 | 145.2 | 1.67 | No |
| 1150 | 0.03 | 0.90 | 50 | 19.91 | 21.57 | 152 | 6.06 | 2.20 | 149.4 | 1.73 | No |
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**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

# ARCADIS Groundwater Sampling Form



Well ID MW-17 | Weather Cloudy, Cool | Date: 11-12-15

Project Name/Location Lafarge - East Point, GA | Project No. HT212446.0014

Total Well Depth (ft-BTOC) 36.3 | Screen Interval (ft-BTOC) 16-35 | Purge Time: Start: 1240 End: 1310 | Sampled by: M. Myers

Static Water Level (ft-BTOC) 23.37 | Pump Intake (ft-BTOC) ~~35~~ ~30 | Sample Time: ~~1315~~ 1315

Water Column (ft) 12.93 | 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 2.07 | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1250 | 0.03 | 0.30 | ~~35~~ 30 | 23.74 | 21.41 | 454 | 6.59 | 4.87 | 87.7 | 5.27 | No |
| 1255 | 0.03 | 0.45 | ~~35~~ 30 | 23.74 | 21.37 | 454 | 6.61 | 4.96 | 88.8 | 4.34 | No |
| 1300 | 0.03 | 0.60 | ~~35~~ 30 | 23.74 | 21.34 | 455 | 6.62 | 4.93 | 90.0 | 4.37 | No |
| 1305 | 0.03 | 0.75 | ~~35~~ 30 | ~~23.74~~ | 21.34 | 456 | 6.63 | 5.06 | 91.3 | 3.90 | No |
| 1310 | 0.03 | 0.90 | ~~35~~ 30 | 23.74 ~~21.74~~ | 21.40 | 463 | 6.64 | 5.20 | 94.4 | 3.11 | No |
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MM 11-12-15

**Constituents Sampled**

Check Boxes as appropriate:

☑ VOCs (8260B)

☑ Other (list): Metals

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

# ARCADIS Groundwater Sampling Form

Page 1 of 1

Well ID MW-18 | Weather Sunny, Cool | Date: 11-12-15

Project Name/Location Lafarge - East Point, GA | Project No. HT212446.0014

Total Well Depth (ft-BTOC) 38 | Screen Interval (ft-BTOC) 23-38 | Purge Time: Start: ~~1330~~ 1340 End: 1410 | Sampled by: M.Myers

Static Water Level (ft-BTOC) 29.32 | Pump Intake (ft-BTOC) 33 | Sample Time: 1415

Water Column (ft) 8.68 | 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 1.39 | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1350 | 0.03 | 0.30 | 33 | 29.33 | 19.97 | 141 | 5.22 | 3.46 | 166.2 | 0.94 | No |
| 1355 | 0.03 | 0.45 | 33 | 29.33 | 19.93 | 140 | 5.23 | 3.59 | 167.7 | 0.72 | No |
| 1400 | 0.03 | 0.60 | 33 | 29.33 | 19.93 | 140 | 5.24 | 3.56 | 168.4 | 0.70 | No |
| 1405 | 0.03 | 0.75 | 33 | 29.34 | 19.84 | 139 | 5.24 | 3.65 | 176.7 | 0.57 | No |
| 1410 | 0.03 | 0.90 | 33 | 29.34 | 19.80 | 139 | 5.24 | 3.69 | 177.9 | 0.49 | No |

MW-18 11-12-15

**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): Needs new lock

Well Completion: Flush Mount / Stick Up

Well Locked at Arrival: Yes / No

Well Locked at Departure: Yes / No

# ARCADIS Groundwater Sampling Form

Page 1 of 1

Well ID MW-19 | Weather Cloudy, Cool | Date: 11-17-15

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: 1525 End: 1555 | Sampled by: M. Nye

Static Water Level (ft-BTOC) 17.02 | Pump Intake (ft-BTOC) 24.5 | Sample Time: 1600

Water Column (ft) 12.48 | 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 1.20 | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1535 | 0.03 | 0.30 | 24.5 | 17.13 | 20.25 | 111 | 4.43 | 3.46 | 175.3 | 1.09 | No |
| 1540 | 0.03 | 0.45 | 24.5 | 17.16 | 20.22 | 111 | 4.49 | 2.65 | 169.2 | 0.58 | No |
| 1545 | 0.03 | 0.60 | 24.5 | 17.17 | 20.19 | 111 | 4.49 | 2.60 | 169.2 | 0.48 | No |
| 1550 | 0.03 | 0.75 | 24.5 | 17.17 | 20.22 | 111 | 4.50 | 2.57 | 168.4 | 0.50 | No |
| 1555 | 0.03 | 0.90 | 24.5 | 17.17 | 20.22 | 111 | 4.49 | 2.49 | 168.5 | 0.51 | No |

11-17-15 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 | 1.25" = 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): MM

Well Completion: Flush Mount / Stick Up

Well Locked at Arrival: Yes / No

Well Locked at Departure: Yes / No

# ARCADIS Groundwater Sampling Form

Page 1 of 1

Well ID ~~MW-25~~ MW-21 | Weather Partly Cloudy, Cool | Date: 11-16-15

Project Name/Location Lafarge - East Point, GA | Project No. HT212446.0014

Total Well Depth (ft-BTOC) 25 | Screen Interval (ft-BTOC) 9.8 - 23.8 | Purge Time: Start: 1553 End: 1623 | Sampled by: M. Myers

Static Water Level (ft-BTOC) 16.43 | Pump Intake (ft-BTOC) 21 | Sample Time: 1630

Water Column (ft) 8.57 | 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 1.34 | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1603 | 0.03 | 0.30 | 21 | 16.78 | 20.22 | 449 | 7.27 | 1.34 | 29.1 | 15.1 | No |
| 1608 | 0.03 | 0.45 | 21 | 16.79 | 20.26 | 447 | 7.27 | 1.13 | 17.0 | 13.9 | No |
| 1613 | 0.03 | 0.60 | 21 | 16.79 | 20.24 | 446 | 7.25 | 1.11 | 9.5 | 12.8 | No |
| 1618 | 0.03 | 0.75 | 21 | 16.90 | 20.22 | 434 | 7.26 | 0.80 | -9.4 | 7.83 | No |
| 1623 | 0.03 | 0.90 | 21 | 16.90 | 20.24 | 437 | 7.25 | 0.76 | -11.4 | 6.95 | No |

MM 11-16-15

**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

# ARCADIS Groundwater Sampling Form

Page 1 of 1

Well ID MW-23 Weather Sunny, Warm Date: 11-11-15

Project Name/Location Lafarge - East Point, GA Project No. HT212446.0014

Total Well Depth (ft-BTOC) 69.5 Screen Interval (ft-BTOC) 60-69.5 Purge Time: Start: 1300 End: 1330 1335 Sampled by: M. Mayer

Static Water Level (ft-BTOC) 24.69 Pump Intake (ft-BTOC) 65 Sample Time: 1340

Water Column (ft) 44.31 Purge Method: (circle one) low flow/low volume / volume purge Volume Purged (mL or gal) 1.05 Duplicate ID: NA

Casing Volume Multiplier 0.16

Well Volume 7.17 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1310 | 0.03 | 0.30 | 65 | 24.80 | 21.33 | 140 | 5.31 | 5.12 | 212.3 | 2.13 | ~~215~~ MM ~~NO~~ |
| 1315 | 0.03 | 0.45 | 65 | 24.80 | 21.15 | 142 | 5.16 | 4.52 | 222.9 | 1.63 | No |
| 1320 | 0.03 | 0.60 | 65 | 24.80 | 21.11 | 133 | 5.09 | 4.24 | 228.1 | 1.49 | NO |
| 1325 | 0.03 | 0.75 | 65 | 24.80 | 21.14 | 120 | 5.06 | 3.81 | 231.7 | 1.32 | No |
| 1330 | 0.03 | 0.90 | 65 | 24.80 | 21.08 | 119 | 5.05 | 3.44 | 232.9 | 1.30 | NO |
| 1335 | 0.03 | 1.05 | 65 | 24.80 | 21.09 | 115 | 5.05 | 3.28 | 232.9 | 1.21 | No |

MM 11-11-15

**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

# ARCADIS Groundwater Sampling Form

Page 1 of

Well ID MW-24 | Weather Sunny, Warm | Date: 11-11-15

Project Name/Location Lafarge - East Point, GA | Project No. HT212446.0014

Total Well Depth (ft-BTOC) 60 | Screen Interval (ft-BTOC) 24-58.5 | Purge Time: Start: ~~1550~~ 1400 | Sampled by: M. Myers

Static Water Level (ft-BTOC) ~~24.01~~ 24.51 | Pump Intake (ft-BTOC) ~~55~~ 35 | End: 1430 | Sample Time: 1490

Water Column (ft) ~~35.99~~ 35.49 | 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 5.68 | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1410 | 0.03 | 0.30 | ~~35~~ | ~~24.51~~ | 20.36 | 220 | 4.40 | ~~5.59~~ ~~5.64~~ | ~~4.279~~ | 42.2 | No |
| 1415 | 0.03 | 0.45 | ~~35~~ | ~~24.51~~ | 20.67 | 223 | 4.52 | ~~5.83~~ | ~~271.7~~ | 33.4 | No |
| 1420 | 0.03 | 0.60 | ~~35~~ | 24.51 | 20.67 | 222 | 4.53 | ~~5.97~~ | 270.1 | 13.4 | No |
| 1425 | 0.03 | 0.75 | ~~35~~ | 24.51 | 20.58 | 226 | 4.55 | 5.89 | 270.4 | 6.03 | No |
| 1430 | 0.03 | 0.90 | ~~35~~ | 24.51 | 20.60 | 225 | 4.55 | 5.80 | 270.7 | 5.69 | No |
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**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

# ARCADIS Groundwater Sampling Form

Page 1 of 1

Well ID MW-26 | Weather Partly Cloudy (cool) | Date: 1-16-15

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: 1225 End: 1255 | Sampled by: M. Myers

Static Water Level (ft-BTOC) ~~10.26~~ 10.37 | Pump Intake (ft-BTOC) 18 | Sample Time: 1300

Water Column (ft) 13.13 | Purge Method: (circle one) low flow/low volume / volume purge | Volume Purged (mL or (gal)) 0.90 | Duplicate ID: N/A

Casing Volume Multiplier 0.16

Well Volume 2.10 | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1235 | 0.03 | 0.30 | 18 | 10.37 | 22.09 | 147 | 6.67 | 3.55 | 90.2 | 2.24 | No |
| 1240 | 0.03 | 0.45 | 18 | 10.37 | 22.18 | 146 | 6.69 | 3.49 | 91.6 | 2.73 | No |
| 1245 | 0.03 | 0.60 | 18 | 10.37 | 22.19 | 146 | 6.71 | 3.48 | 94.2 | 2.01 | No |
| 1250 | 0.03 | 0.75 | 18 | 10.38 | 22.41 | 146 | 6.74 | 3.16 | 96.6 | 2.35 | No |
| 1255 | 0.03 | 0.90 | 18 | 10.38 | 22.42 | 146 | 6.75 | 3.53 | 96.7 | 1.93 | No |
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**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

# ARCADIS Groundwater Sampling Form

Page 1 of 1

Well ID MW-27 | Weather Partly Cloudy, Cool | Date: 11-16-15

Project Name/Location Lafarge - East Point, GA | Project No. HT212446.0014

Total Well Depth (ft-BTOC) 46.2 | Screen Interval (ft-BTOC) 46.2-48.2 | Purge Time: Start: 1305 End: 1335 | Sampled by: M. Nye

Static Water Level (ft-BTOC) ~~10.37~~ 11.86 | Pump Intake (ft-BTOC) 47 | Sample Time: 1340

Water Column (ft) 37.85 | 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 | Sample equipment (check one): ☐ Teflon Bladder ☒ Teflon-lined Tubing ☐ Teflon Bailer | Appearance (color/odor) Clear / None

Well Volume 6.06

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1315 | 0.03 | 0.30 | ~~47~~ | 12.02 | 21.53 | 191 | 7.04 | 4.06 | 93.9 | 1.80 | No |
| 1320 | 0.03 | 0.45 | ~~47~~ | 12.05 | 21.67 | 191 | 7.10 | 3.99 | 88.0 | 1.65 | No |
| 1325 | 0.03 | 0.60 | ~~47~~ | 12.07 | 21.93 | 192 | 7.21 | 3.86 | 79.1 | 1.45 | No |
| 1330 | 0.05 | 0.75 | ~~47~~ | ~~12~~ 12.08 | 21.94 | 192 | 7.23 | 3.97 | 79.5 | 1.84 | No |
| 1335 | 0.03 | 0.90 | ~~47~~ | 12.08 | 21.92 | 192 | 7.23 | 4.00 | 78.2 | 1.75 | No |
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**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

# ARCADIS Groundwater Sampling Form

Page 1 of 1

Well ID MW-30 | Weather Sunny, Cool | Date: 11-12-15

Project Name/Location Lafarge - East Point, GA | Project No. HT212446.0014

Total Well Depth (ft-BTOC) 60 | Screen Interval (ft-BTOC) 50-60 | Purge Time: Start: 1425 End: 1455 | Sampled by: M. Myers

Static Water Level (ft-BTOC) 8.97 | Pump Intake (ft-BTOC) 55 | Sample Time: 1500

Water Column (ft) 51.03 | 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 8.16 | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1435 | 0.03 | 0.30 | 55 | 9.68 | 22.29 | 1915 | 11.73 | 1.98 | -78.9 | 4.27 | No |
| 1440 | 0.03 | 0.45 | 55 | 9.73 | 22.27 | 1866 | 11.87 | 1.22 | -53.6 | 11.4 | No |
| 1445 | 0.03 | 0.60 | 55 | 9.74 | 22.24 | 1866 | 11.90 | 1.15 | -59.3 | 9.16 | No |
| 1450 | 0.03 | 0.75 | 55 | 9.74 | 22.14 | 1871 | 11.93 | 1.01 | -64.6 | Bad | No |
| 1455 | 0.03 | 0.90 | 55 | 9.74 | 22.02 | 1873 | 11.94 | 0.91 | -69.6 | 5.88 | No |

MM 11-12-15

**Constituents Sampled**

Check Boxes as appropriate:

☑ VOCs (8260B)

☑ Other (list): Metals

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

# ARCADIS Groundwater Sampling Form

Page 1 of 1

Well ID MW-31 | Weather Cloudy, Cool | Date: 11-17-15

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: 1200 End: 1230 | Sampled by: M. Myers

Static Water Level (ft-BTOC) 9.00 | Pump Intake (ft-BTOC) 30 | Sample Time: 1235

Water Column (ft) 26.00 | 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 4.16 | Sample equipment (check one): [ ] Teflon Bladder [X] 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1210 | 0.03 | 0.30 | 30 | 9.09 | 22.54 | 240 | 6.07 | 0.90 | -42.7 | 1.94 | No |
| 1215 | 0.03 | 0.45 | 30 | 9.09 | 22.56 | 239 | 6.08 | 0.80 | -45.5 | 1.81 | No |
| 1220 | 0.03 | 0.60 | 30 | 9.10 | 22.60 | 237 | 6.07 | 0.78 | -48.2 | 1.42 | No |
| 1225 | 0.03 | 0.75 | 30 | 9.10 | 22.40 | 236 | 6.06 | 0.74 | -47.6 | 1.32 | No |
| 1230 | 0.03 | 0.90 | 30 | 9.10 | 22.55 | 235 | 6.05 | 0.69 | -49.3 | 1.02 | No |

11-17-15 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; 1.25" = 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

# ARCADIS Groundwater Sampling Form

Page 1 of 1

Well ID MW-32 | Weather Partly Cloudy, Cool | Date: 11-17-15

Project Name/Location Lafarge - East Point, GA | Project No. HT212446.0014

Total Well Depth (ft-BTOC) | Screen Interval (ft-BTOC) | Purge Time: Start: | Sampled by: M. Myers

Static Water Level (ft-BTOC) | Pump Intake (ft-BTOC) | End: | Sample Time: 1200

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 Bailer | Appearance (color/odor) Clear / No

| 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 | / | / | / | / | 20.05 | 174 | 6.20 | 3.89 | 38.3 | 14.0 | No |
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11-17-15 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

# ARCADIS Groundwater Sampling Form

Page 1 of 1

Well ID: MW-33 | Weather: Partly Cloudy, Cool | Date: 11-16-15

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: 1355 End: 1428 | Sampled by: M. Myers

Static Water Level (ft-BTOC): 18.06 | Pump Intake (ft-BTOC): 30 | Sample Time: 1430

Water Column (ft): 16.94 | Purge Method: (circle one) low flow/low volume / volume purge | Volume Purged (mL or gal): 0.90 | Duplicate ID: DUP-02

Casing Volume Multiplier: 0.16

Well Volume: | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1405 | 0.03 | 0.30 | 30 | 18.10 | 23.08 | 237 | 7.55 | 1.60 | 1.4 | 9.29 | No |
| 1410 | 0.03 | 0.45 | 30 | 18.10 | 23.56 | 238 | 7.39 | 1.01 | 2.2 | 7.62 | No |
| 1415 | 0.03 | 0.60 | 30 | 18.10 | 22.96 | 239 | 7.35 | 0.68 | 3.1 | 5.41 | No |
| 1420 | 0.03 | 0.75 | 30 | 18.10 | 23.02 | 238 | 7.36 | 0.57 | -32.6 | 3.58 | No |
| 1425 | 0.03 | 0.90 | 30 | 18.10 | 22.91 | 237 | 7.33 | 0.48 | -43.6 | 3.51 | No |
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11-16-15

**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

Page 1 of 1

Well ID MW-34 | Weather Sunny, Cool | Date: 11-16-15

Project Name/Location Lafarge - East Point, GA | Project No. HT212446.0014

Total Well Depth (ft-BTOC) 60 | Screen Interval (ft-BTOC) 50-60 | Purge Time: Start: 1055 End: 1125 | Sampled by: M.Myers

Static Water Level (ft-BTOC) 18.64 | Pump Intake (ft-BTOC) 55 | Sample Time: 1130

Water Column (ft) 41.36 | 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 6.12 | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1105 | 0.03 | 0.30 | 55 | 18.88 | 20.96 | 118 | 7.10 | 5.28 | 99.6 | 0.53 | No |
| 1110 | 0.03 | 0.45 | 55 | 18.90 | 20.93 | 117 | 6.91 | 4.99 | 96.5 | 0.36 | No |
| 1115 | 0.03 | 0.60 | 55 | 18.91 | 20.85 | 116 | 6.89 | 5.05 | 88.2 | 1.23 | No |
| 1120 | 0.03 | 0.75 | 55 | 18.91 | 20.50 | 116 | 6.82 | 5.10 | 86.7 | 0.63 | No |
| 1125 | 0.03 | 0.90 | 55 | 18.92 | 20.56 | 115 | 6.80 | 5.07 | 81.2 | 0.48 | No |
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MM 11-16-15

**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

# ARCADIS Groundwater Sampling Form

Page 1 of 1

Well ID MW-35 | Weather Sunny, Cool | Date: 11-16-15

Project Name/Location Lafarge - East Point, GA | Project No. HT212446.0014

Total Well Depth (ft-BTOC) 60 | Screen Interval (ft-BTOC) 50-60 | Purge Time: Start: 1010 End: 1040 | Sampled by: M.My

Static Water Level (ft-BTOC) 19.06 | Pump Intake (ft-BTOC) 55 | Sample Time: 1045

Water Column (ft) 40.94 | 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 6.55 | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1010 | 0.03 | 0.30 | 55 | 19.41 | 21.22 | 208 | 10.28 | 4.96 | 72.4 | 9.11 | No |
| 1025 | 0.03 | 0.45 | 55 | 19.46 | 21.11 | 213 | 10.13 | 3.00 | 30.0 | 2.69 | No |
| 1030 | 0.03 | 0.60 | 55 | 19.48 | 21.05 | 218 | 10.05 | 2.59 | -19.6 | 4.11 | No |
| 1035 | 0.03 | 0.75 | 55 | 19.49 | 21.37 | 219 | 9.09 | 1.27 | -13.4 | 1.72 | No |
| 1040 | 0.03 | 0.90 | 55 | 19.49 | 21.42 | 219 | 9.07 | 1.42 | -13.6 | 1.17 | No |
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**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 MW-36 | Weather Partly Cloudy | Date: 11-17-15

Project Name/Location Lafarge - East Point, GA | Project No. HT212446.0014

Total Well Depth (ft-BTOC) 60 | Screen Interval (ft-BTOC) 50-60 | Purge Time: Start: 1340 End: 1347 | Sampled by: M. Myers

Static Water Level (ft-BTOC) 21.52 | Pump Intake (ft-BTOC) 60 (Final | Sample Time: 1605

Water Column (ft) 38.48 | Purge Method: (circle one) low flow/low volume / volume purge | Volume Purged (mL or gal) 7.5 | Duplicate ID: NA

Casing Volume Multiplier 0.16

Well Volume 6.16 | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1340 | 1.1 | 0.2 | 24 | 21.52 | 20.87 | 424 | 7.23 | 1.75 | -105.6 | 36.5 | No |
| 1346 | 1.1 | 6.2 | 60 | 42.69 | 21.03 | 345 | 7.05 | 2.30 | -28.1 | 14.6 | No |
| 1347 | * Well Purged Dry, * will wait for Recharge to Sample | | | | | | | | | * | |
| 1605 | ✓ | ✓ | ✓ | 54.25 | 19.86 | 354 | 6.79 | 2.16 | -42.0 | 13.7 | Yes |

MM 11-17-15

**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

# ARCADIS Groundwater Sampling Form



Well ID: RW-2 | Weather: Partly Cloudy, Cool | Date: 11-17-15

Project Name/Location: Lafarge - East Point, GA | Project No.: HT212446.0014

Total Well Depth (ft-BTOC): | Screen Interval (ft-BTOC): | Purge Time: Start: | Sampled by: M. Nye

Static Water Level (ft-BTOC): | Pump Intake (ft-BTOC): | End: | Sample Time: 1205

Water Column (ft): | Purge Method: (circle one) low flow/low volume / volume purge | Volume Purged (mL or gal): | Duplicate ID: MW

Casing Volume Multiplier: | Well Volume: | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1205 | ✓ | ✓ | ✓ | ✓ | 20.15 | 395 | 7.13 | 1.52 | -153.0 | 13.4 | NO |
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MW 11-17-15

**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

Page 1 of 1

Well ID RW-3 | Weather Cloudy, Cool | Date: 11-17-15

Project Name/Location Lafarge - East Point, GA | Project No. HT212446.0014

Total Well Depth (ft-BTOC) | Screen Interval (ft-BTOC) | Purge Time: Start: | Sampled by: M. Myers

Static Water Level (ft-BTOC) | Pump Intake (ft-BTOC) | End: | Sample Time: 1420

Water Column (ft) | Purge Method: (circle one) low flow/low volume volume purge | Volume Purged (mL or gal) | Duplicate ID:

Casing Volume Multiplier

Well Volume | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1410 | ✓ | ✓ | ✓ | ✓ | 20.71 | 162 | 5.82 | 1.47 | 105.4 | 14.9 | No |
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11-17-15 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; 1.25" = 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

# ARCADIS Groundwater Sampling Form

Page 1 of 1

Well ID RW-6 | Weather Partly Cloudy, Cool | Date: 11-17-15

Project Name/Location Lafarge - East Point, GA | Project No. HT212446.0014

Total Well Depth (ft-BTOC) | Screen Interval (ft-BTOC) | Purge Time: Start: | Sampled by: MAY

Static Water Level (ft-BTOC) | Pump Intake (ft-BTOC) | End: | Sample Time: 1109

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 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1109 | ✓ | ✓ | ✓ | 80 ft | 20.12 | 159 | 5.02 | 5.28 | 284.3 | 1.94 | No |

11-17-15 MW

**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

# ARCADIS Groundwater Sampling Form



Well ID: RW-7 | Weather: Partly Cloudy, Cool | Date: 11-17-15

Project Name/Location: Lafarge - East Point, GA | Project No.: HT212446.0014

Total Well Depth (ft-BTOC): | Screen Interval (ft-BTOC): | Purge Time: Start: | Sampled by: M. My

Static Water Level (ft-BTOC): | Pump Intake (ft-BTOC): | End: | Sample Time: 1055

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 Bailer | Appearance (color/odor): Clear / No

| 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 | ✓ | ✓ | ✓ | ✓ | 20.48 | 160 | 5.50 | 5.54 | 206.1 | 7.41 | No |
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MM 11-24

**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

Page 1 of 1

Well ID MW-8 | Weather Partly Cloudy, Cool | Date: 11-17-15

Project Name/Location Lafarge - East Point, GA | Project No. HT212446.0014

Total Well Depth (ft-BTOC) | Screen Interval (ft-BTOC) | Purge Time: Start: | Sampled by: M. My

Static Water Level (ft-BTOC) | Pump Intake (ft-BTOC) | End: | Sample Time: 1030

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 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1030 | / | / | / | / | 19.60 | 438 | 6.08 | 4.09 | 226.7 | 1.50 | No |
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MW 11-17-15

**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

# ARCADIS Groundwater Sampling Form

Page 1 of 1

Well ID MW-9 | Weather Sunny, 55°F | Date: 11/19/15

Project Name/Location Lafarge - East Point, GA | Project No. HT212446.0014

Total Well Depth (ft-BTOC) 81.1 | Screen Interval (ft-BTOC) 66.2-80 | Purge Time: Start: 0845 End: 0910 | Sampled by: C. Swiney

Static Water Level (ft-BTOC) 10.07 | Pump Intake (ft-BTOC) 73 | Sample Time: 0915

Water Column (ft) 71.03 | Purge Method: (circle one) low flow/low volume / volume purge | Volume Purged (mL or gal) 0.90 | Duplicate ID: N/A

Casing Volume Multiplier 0.16

Well Volume 11.37 | Sample equipment (check one): ☐ Teflon Bladder ☑ Teflon-lined Tubing ☐ Teflon Bailer | Appearance (color/odor) clear/no odor

| 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) mS/cm | pH | Dissolved Oxygen (mg/L) | ORP (mV) | Turbidity (NTU) | Purged Dry (yes or no) (enter depth purged dry |
|---|---|---|---|---|---|---|---|---|---|---|---|
| initial 0845 | 0.03 | 0.00 | 73 | 10.07 | 16.52 | 0.156 | 5.47 | 5.51 | 240.7 | 0.41 | N |
| 0850 | 0.03 | 0.30 | 73 | 10.26 | 17.14 | 0.155 | 5.68 | 3.30 | 185.6 | 0.13 | N |
| 0855 | 0.03 | 0.45 | 73 | 10.58 | 17.11 | 0.154 | 5.78 | 2.39 | 170.9 | 0.13 | N |
| 0900 | 0.03 | 0.60 | 73 | 10.78 | 16.92 | 0.153 | 5.80 | 2.35 | 168.0 | 0.12 | N |
| 0905 | 0.03 | 0.75 | 73 | 11.01 | 17.16 | 0.153 | 5.78 | 1.95 | 168.8 | 0.12 | N |
| 0910 | 0.03 | 0.90 | 73 | 11.24 | 17.32 | 0.153 | 5.78 | 1.57 | 168.4 | 0.11 | N |
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**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

# ARCADIS Groundwater Sampling Form

Page 1 of 1

Well ID MW-20 | Weather Sunny, 56°F | Date: 11/19/15

Project Name/Location Lafarge - East Point, GA | Project No. HT212446.0014

Total Well Depth (ft-BTOC) 27.5 | Screen Interval (ft-BTOC) 7.5-26.5 | Purge Time: Start: 0935 End: 1000 | Sampled by: C. Swiney

Static Water Level (ft-BTOC) 10.38 | Pump Intake (ft-BTOC) 19.5 | Sample Time: 1005

Water Column (ft) 17.1 | Purge Method: (circle one) low flow/low volume / volume purge | Volume Purged (mL or gal) 0.90 | Duplicate ID: N/A

Casing Volume Multiplier 0.16

Well Volume 2.73 | Sample equipment (check one): ☐ Teflon Bladder ☑ Teflon-lined Tubing ☐ Teflon Bailer | Appearance (color/odor) Clear/no odor

| 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~~ mS/cm | pH | Dissolved Oxygen (mg/L) | ORP (mV) | Turbidity (NTU) | Purged Dry (yes or no) (enter depth purged dry |
|---|---|---|---|---|---|---|---|---|---|---|---|
| initial 0935 | 0.03 | 0.00 | 19.5 | 10.38 | 18.74 | 0.285 | 5.50 | 3.02 | 212.3 | 2.14 | N |
| 0940 | 0.03 | 0.30 | 19.5 | 10.43 | 19.30 | 0.291 | 5.84 | 1.75 | 160.2 | 1.18 | N |
| 0945 | 0.03 | 0.45 | 19.5 | 10.48 | 19.57 | 0.293 | 5.83 | 1.63 | 152.7 | 0.83 | N |
| 0950 | 0.03 | 0.60 | 19.5 | 10.50 | 19.78 | 0.295 | 5.93 | 1.71 | 148.1 | 0.67 | N |
| 0955 | 0.03 | 0.75 | 19.5 | 10.51 | 20.14 | 0.297 | 6.02 | 1.18 | 146.3 | 0.74 | N |
| 1000 | 0.03 | 0.90 | 19.5 | 10.53 | 20.36 | 0.299 | 6.08 | 1.68 | 143.0 | 0.53 | N |
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**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

# ARCADIS Groundwater Sampling Form

Page 1 of 1

Well ID MW-10 | Weather Sunny 59°F | Date: 11/19/15

Project Name/Location Lafarge - East Point, GA | Project No. HT212446.0014

Total Well Depth (ft-BTOC) 57.0 | Screen Interval (ft-BTOC) 36.9 - 56.0 | Purge Time: Start: 1030 End: 1055 | Sampled by: C Swiney

Static Water Level (ft-BTOC) 10.59 | Pump Intake (ft-BTOC) 46 | Sample Time: 1100

Water Column (ft) 46.41 | Purge Method: (circle one) low flow/low volume / volume purge | Volume Purged (mL or gal) 0.90 | Duplicate ID: N/A

Casing Volume Multiplier 0.16 | Well Volume 7.42 | 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~~ mS/cm | pH | Dissolved Oxygen (mg/L) | ORP (mV) | Turbidity (NTU) | Purged Dry (yes or no) (enter depth purged dry |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Initial 1030 | 0.03 | 0.00 | 46 | 10.59 | 20.86 | 0.156 | 5.71 | 2.60 | 46.7 | 7.93 | N |
| 1035 | 0.03 | 0.30 | 46 | 10.80 | 20.81 | 0.156 | 5.93 | 2.13 | 38.9 | 6.05 | N |
| 1040 | 0.03 | 0.45 | 46 | 11.05 | 20.85 | 0.156 | 5.90 | 1.65 | 38.8 | 4.82 | N |
| 1045 | 0.03 | 0.60 | 46 | 11.25 | 20.91 | 0.156 | 5.84 | 1.24 | 38.4 | 3.51 | N |
| 1050 | 0.03 | 0.75 | 46 | 11.29 | 21.01 | 0.156 | 5.79 | 1.10 | 37.6 | 3.94 | N |
| 1055 | 0.03 | 0.90 | 46 | 11.30 | 21.21 | 0.156 | 5.73 | 0.92 | 35.9 | 2.38 | N |
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**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

# ARCADIS Groundwater Sampling Form



Well ID: MW-12 | Weather: Sunny 63°F | Date: 11/19/15

Project Name/Location: Lafarge - East Point, GA | Project No.: HT212446.0014

Total Well Depth (ft-BTOC): 79.2 | Screen Interval (ft-BTOC): 59-78.0 | Purge Time: Start: 1200 End: 1235 | Sampled by: C. Swiney

Static Water Level (ft-BTOC): 16.41 | Pump Intake (ft-BTOC): 69.0 | Sample Time: 1240

Water Column (ft): 62.79 | Purge Method: (circle one) low flow/low volume / volume purge | Volume Purged (mL or gal): 0.90 | Duplicate ID: N/A

Casing Volume Multiplier: 0.16

Well Volume: 10.04 | 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 mS/cm | pH | Dissolved Oxygen (mg/L) | ORP (mV) | Turbidity (NTU) | Purged Dry (yes or no) (enter depth purged dry |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Initial 1200 | 0.03 | 0.00 | 69.0 | 16.41 | 20.48 | 0.165 | 5.26 | 5.59 | 184.1 | 2.19 | N |
| 1215 | 0.03 | 0.30 | 69.0 | 16.52 | 20.55 | 0.158 | 4.98 | 3.65 | 193.7 | 1.00 | N |
| 1220 | 0.03 | 0.45 | 69.0 | 16.56 | 20.52 | 0.152 | 4.95 | 2.18 | 199.2 | 1.50 | N |
| 1225 | 0.03 | 0.60 | 69.0 | 16.56 | 20.61 | 0.151 | 4.94 | 1.91 | 205.9 | 0.52 | N |
| 1230 | 0.03 | 0.75 | 69.0 | 16.56 | 20.60 | 0.151 | 4.91 | 1.58 | 208.1 | 0.62 | N |
| 1235 | 0.03 | 0.90 | 69.0 | 16.56 | 20.54 | 0.150 | 4.93 | 1.40 | 209.8 | 0.60 | N |
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**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

# ARCADIS Groundwater Sampling Form

Page 1 of 1

Well ID MW-11 | Weather Sunny, 64°F | Date: 11/19/15

Project Name/Location Lafarge - East Point, GA | Project No. HT212446.0014

Total Well Depth (ft-BTOC) 106.3 | Screen Interval (ft-BTOC) 91-105.7 | Purge Time: Start: 1315 End: 1340 | Sampled by: C. Swiney

Static Water Level (ft-BTOC) 16.60 | Pump Intake (ft-BTOC) 98 | Sample Time: 1345

Water Column (ft) 89.7 | Purge Method: (circle one) low flow/low volume / volume purge | Volume Purged (mL or gal) 0.90 | Duplicate ID: N/A

Casing Volume Multiplier 0.16

Well Volume 14.35 | 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 ~~uS/cm~~ MS/cm | pH | Dissolved Oxygen (mg/L) | ORP (mV) | Turbidity (NTU) | Purged Dry (yes or no) (enter depth purged dry |
|---|---|---|---|---|---|---|---|---|---|---|---|
| initial 1315 | 0.03 | 0.00 | 98 | 16.60 | 20.36 | 0.163 | 5.54 | 5.41 | 172.6 | 0.90 | N |
| 1320 | 0.03 | 0.30 | 98 | 16.75 | 20.48 | 0.159 | 5.05 | 4.22 | 200.0 | 0.81 | N |
| 1325 | 0.03 | 0.45 | 98 | 16.75 | 20.51 | 0.157 | 5.00 | 3.14 | 204.9 | 0.33 | N |
| 1330 | 0.03 | 0.60 | 98 | 16.75 | 20.55 | 0.156 | 4.95 | 2.52 | 206.1 | 0.29 | N |
| 1335 | 0.03 | 0.75 | 98 | 16.75 | 20.56 | 0.156 | 4.89 | 2.10 | 210.7 | 0.17 | N |
| 1340 | 0.03 | 0.90 | 98 | 16.55 | 20.56 | 0.155 | 4.85 | 1.89 | 215.5 | 0.14 | N |
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**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)

# ARCADIS Groundwater Sampling Form

Page 1 of 1

Well ID: MW-22 | Weather: Sunny, 64°F | Date: 11/19/15

Project Name/Location: Lafarge - East Point, GA | Project No.: HT212446.0014

Total Well Depth (ft-BTOC): 28 | Screen Interval (ft-BTOC): 8-27 | Purge Time: Start: 1420 End: 1445 | Sampled by: C. Swiney

Static Water Level (ft-BTOC): 17.40 | Pump Intake (ft-BTOC): 24 | Sample Time: 1450

Water Column (ft): 10.60 | Purge Method: (circle one) low flow/low volume / volume purge | Volume Purged (mL or (gal)): 0.90 | Duplicate ID: N/A

Casing Volume Multiplier: 0.16 | Well Volume: 1.69 | 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 ~~mS/cm~~ mS/cm | pH | Dissolved Oxygen (mg/L) | ORP (mV) | Turbidity (NTU) | Purged Dry (yes or no) (enter depth purged dry |
|---|---|---|---|---|---|---|---|---|---|---|---|
| initial 1420 | 0.03 | 0.00 | 24 | 17.40 | 20.46 | 0.195 | 4.55 | 2.04 | 271.5 | 0.14 | N |
| 1425 | 0.03 | 0.30 | 24 | 17.40 | 20.47 | 0.198 | 4.57 | 1.36 | 277.4 | 0.37 | N |
| 1430 | 0.03 | 0.45 | 24 | 17.40 | 20.46 | 0.199 | 4.56 | 1.20 | 276.0 | 0.23 | N |
| 1435 | 0.03 | 0.60 | 24 | 17.41 | 20.46 | 0.200 | 4.58 | 0.99 | 285.9 | 0.25 | N |
| 1440 | 0.03 | 0.75 | 24 | 17.41 | 20.42 | 0.201 | 4.57 | 0.96 | 292.4 | 0.15 | N |
| 1445 | 0.03 | 0.90 | 24 | 17.41 | 20.40 | 0.199 | 4.58 | 0.78 | 311.9 | 0.22 | N |
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**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

# ARCADIS Groundwater Sampling Form

Page 1 of 1

Well ID MW-13 | Weather Sunny, 64°F | Date: 11/19/15

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: 1645 | Sampled by: C. Swiney

Static Water Level (ft-BTOC) 13.30 | Pump Intake (ft-BTOC) 89 | End: 1710 | Sample Time: 1715

Water Column (ft) 83.7 | Purge Method: (circle one) low flow/low volume / volume purge | Volume Purged (mL or gal) 0.90 | Duplicate ID: N/A

Casing Volume Multiplier 0.16

Well Volume 13.39 | 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) M3/M | pH | Dissolved Oxygen (mg/L) | ORP (mV) | Turbidity (NTU) | Purged Dry (yes or no) (enter depth purged dry |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Initial | | | | | | | | | | | |
| 1645 | 0.03 | 0.00 | 89 | 13.30 | 20.33 | 0.164 | 5.00 | 3.16 | 218.3 | 1.54 | N |
| 1650 | 0.03 | 0.30 | 89 | 13.55 | 20.28 | 0.162 | 4.92 | 2.63 | 219.5 | 0.97 | N |
| 1655 | 0.03 | 0.45 | 89 | 13.75 | 20.31 | 0.162 | 4.81 | 1.88 | 225.4 | 0.59 | N |
| 1700 | 0.03 | 0.60 | 89 | 13.85 | 20.30 | 0.162 | 4.79 | 1.39 | 225.1 | 0.41 | N |
| 1705 | 0.03 | 0.75 | 89 | 13.84 | 20.30 | 0.162 | 4.78 | 1.23 | 224.9 | 0.19 | N |
| 1710 | 0.03 | 0.90 | 89 | 13.84 | 20.24 | 0.161 | 4.74 | 1.03 | 224.0 | 0.39 | N |
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**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

ARCADIS Groundwater Sampling Form

Page 1 of 1

Well ID MW-25 | Weather Sunny 45-50°F | Date: 11/20/15

Project Name/Location Lafarge - East Point, GA | Project No. HT212446.0014

Total Well Depth (ft-BTOC) 200 | Screen Interval (ft-BTOC) 190-200 | Purge Time: Start: 0850 End: 0915 | Sampled by: C. Swiney

Static Water Level (ft-BTOC) 4.17 | Pump Intake (ft-BTOC) 195 | Sample Time: 0920

Water Column (ft) 195.83 | Purge Method: (circle one) low flow/low volume / volume purge | Volume Purged (mL or (gal)) 0.90 | Duplicate ID: N/A

Casing Volume Multiplier ~~0.16~~ | Well Volume | 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~~ mS/cm) | pH | Dissolved Oxygen (mg/L) | ORP (mV) | Turbidity (NTU) | Purged Dry (yes or no) (enter depth purged dry |
|---|---|---|---|---|---|---|---|---|---|---|---|
| initial 0850 | 0.03 | 0.00 | 195 | 4.17 | 18.66 | 0.171 | 8.75 | 6.25 | 90.1 | 1.25 | N |
| 0855 | 0.03 | 0.30 | 195 | 4.58 | 19.65 | 0.172 | 8.63 | 3.25 | 13.5 | 1.00 | N |
| 0900 | 0.03 | 0.45 | 195 | 4.90 | 19.81 | 0.173 | 8.65 | 3.08 | 20.4 | 1.01 | N |
| 0905 | 0.03 | 0.60 | 195 | 5.15 | 19.61 | 0.172 | 8.64 | 2.54 | 29.0 | 1.11 | N |
| 0910 | 0.03 | 0.75 | 195 | 5.46 | 19.51 | 0.172 | 8.64 | 2.50 | 30.5 | 1.25 | N |
| 0915 | 0.03 | 0.90 | 195 | 5.58 | 19.63 | 0.172 | 8.64 | 2.29 | 33.1 | 1.15 | N |
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**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

# ARCADIS Groundwater Sampling Form

Page 1 of 1

Well ID: MW-28 | Weather: Sunny, 55°F | Date: 11/20/15

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: 1045 End: 1110 | Sampled by: C. Swiney

Static Water Level (ft-BTOC): 6.04 | Pump Intake (ft-BTOC): 18.5 | Sample Time: 1115

Water Column (ft): 17.46 | Purge Method: (circle one) low flow/low volume / volume purge | Volume Purged (mL or (gal)): 0.90 | Duplicate ID: N/A

Casing Volume Multiplier: 0.16

Well Volume: 2.79 | 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~~ mS/cm | pH | Dissolved Oxygen (mg/L) | ORP (mV) | Turbidity (NTU) | Purged Dry (yes or no) (enter depth purged dry |
|---|---|---|---|---|---|---|---|---|---|---|---|
| initial 1045 | 0.03 | 0.00 | 18.5 | 6.04 | 17.52 | 0.134 | 5.30 | 3.01 ~~170.7~~ | 170.7 | 2.11 | N |
| 1050 | 0.03 | 0.30 | 18.5 | 6.25 | 17.96 | 0.134 | 5.12 | 1.79 | 173.6 | 0.85 | N |
| 1055 | 0.03 | 0.45 | 18.5 | 6.30 | 18.39 | 0.134 | 4.89 | 1.23 | 177.0 | 1.47 | N |
| 1100 | 0.03 | 0.60 | 18.5 | 6.30 | 18.73 | 0.134 | 4.69 | 1.28 | 190.7 | 1.39 | N |
| 1105 | 0.03 | 0.75 | 18.5 | 6.30 | 18.78 | 0.134 | 4.64 | 1.16 | 190.8 | 0.67 | N |
| 1110 | 0.03 | 0.90 | 18.5 | 6.30 | 19.06 | 0.134 | 4.63 | 0.97 | 193.5 | 1.01 | N |
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**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

# ARCADIS Groundwater Sampling Form

Page 1 of 1

Well ID: MW-29 | Weather: Sunny, 55°F | Date: 11/20/15

Project Name/Location: Lafarge - East Point, GA | Project No.: HT212446.0014

Total Well Depth (ft-BTOC): 45.5 | Screen Interval (ft-BTOC): 43.5-45.5 | Purge Time: Start: 1135 End: 1200 | Sampled by: C. Swiney

Static Water Level (ft-BTOC): 5.41 | Pump Intake (ft-BTOC): 44.5 | Sample Time: 1205

Water Column (ft): 40.09 | Purge Method: (circle one) low-flow/low volume / volume purge | Volume Purged (mL or gal): 0.90 | Duplicate ID: N/A

Casing Volume Multiplier: 0.16

Well Volume: 6.41 | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Initial 1135 | 0.03 | 0.00 | 44.5 | 5.41 | 18.98 | 0.136 | 4.82 | 2.54 | 196.0 | 1.34 | N |
| 1140 | 0.03 | 0.30 | 44.5 | 5.74 | 19.16 | 0.136 | 4.78 | 1.98 | 192.1 | 0.36 | N |
| 1145 | 0.03 | 0.45 | 44.5 | 6.09 | 19.24 | 0.136 | 4.76 | 1.31 | 193.7 | 0.31 | N |
| 1150 | 0.03 | 0.60 | 44.5 | 6.25 | 19.29 | 0.136 | 4.72 | 1.30 | 196.0 | 0.39 | N |
| 1155 | 0.03 | 0.75 | 44.5 | 6.43 | 19.33 | 0.136 | 4.70 | 1.20 | 199.1 | 0.50 | N |
| 1200 | 0.03 | 0.90 | 44.5 | 6.70 | 19.37 | 0.136 | 4.70 | 1.12 | 200.5 | 0.39 | N |
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**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

# ARCADIS Groundwater Sampling Form



Well ID MW-37 | Weather Partly Cloudy, Cool | Date: 12/31/2015

Project Name/Location Lafarge East Point | Project No. HT212446.0014

Total Well Depth (ft-BTOC) 24 | Screen Interval (ft-BTOC) 14-24 | Purge Time: Start: 1200 End: 1230 | Sampled by: M. Myers

Static Water Level (ft-BTOC) 2.43 | Pump Intake (ft-BTOC) 19 | Sample Time: 1235

Water Column (ft) 21.57 | Purge Method: (circle one) low flow/low volume / volume purge | Volume Purged (mL or gal) 2.90 | Duplicate ID: NA

Casing Volume Multiplier 0.16

Well Volume 3.45 | Sample equipment (check one): [ ] Teflon Bladder [X] Teflon-lined Tubing [ ] Teflon Bailer | Appearance (color/odor) Clear / No.

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1210 | 0.03 | 0.30 | 19 | 3.14 | 20.90 | 163 | 5.70 | 3.01 | -59.4 | 52.1 | No |
| 1215 | 0.03 | 0.45 | 19 | 3.20 | 21.26 | 160 | 5.69 | 2.98 | -42.8 | 64.4 | No |
| 1220 | 0.03 | 0.60 | 19 | 2.53 | 20.66 | 162 | 5.69 | 2.13 | -44.4 | 39.9 | No |
| 1225 | 0.03 | 0.75 | 19 | 2.38 | 20.61 | 161 | 5.68 | 1.90 | -48.5 | 17.4 | No |
| 1230 | 0.03 | 0.90 | 19 | 2.79 | 20.64 | 161 | 5.67 | 1.71 | -49.1 | 6.51 | No |

12-31-15

**Constituents Sampled**

VOCs

Other Notes: Primary stabilization parameters: pH ± 0.1 SU; Specific Conductance ±5%

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

# ARCADIS Groundwater Sampling Form

Page 1 of 1

Well ID MW-38 | Weather Partly Cloudy, Cool | Date: 12/31/2015

Project Name/Location Lafarge East Point | Project No. HT212446.0014

Total Well Depth (ft-BTOC) 26 | Screen Interval (ft-BTOC) 16-26 | Purge Time: Start: 1255 End: 1325 | Sampled by: M. Myers

Static Water Level (ft-BTOC) 9.77 | Pump Intake (ft-BTOC) 21 | Sample Time: 1330

Water Column (ft) 16.23 | 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 2.60 | Sample equipment (check one): [ ] Teflon Bladder [X] 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1305 | 0.03 | 0.30 | 21 | 9.82 | 19.10 | 147 | 5.12 | 7.52 | -8.5 | 57.2 | No |
| 1310 | 0.03 | 0.45 | 21 | 9.89 | 19.05 | 147 | 5.10 | 7.54 | -7.9 | 39.1 | No |
| 1315 | 0.03 | 0.60 | 21 | 9.89 | 19.05 | 147 | 5.10 | 7.59 | -7.8 | 23.2 | No |
| 1320 | 0.03 | 0.75 | 21 | 9.89 | 18.78 | 148 | 5.07 | 6.93 | -7.3 | 12.9 | No |
| 1325 | 0.03 | 0.90 | 21 | 9.89 | 18.33 | 146 | 5.06 | 6.42 | -7.1 | 8.93 | No |

12-31-15 MV

**Constituents Sampled**

Other Notes: Primary stabilization parameters: pH ± 0.1 SU; Specific Conductance ±5%

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

# ARCADIS G&M

## Ground Water Sampling Log



Site Location: East Point, GA | Date: 2-25-16 | Sampler: M. Myers

Project: LaFarge | Project No.: GA063865.0001

Site/Well No.: TW-01 | Weather: Sunny, Windy

**Well Data**

Well Depth (ft BTOC): 25

Water Level (ft BTOC): 3.96

Water Column in Well (ft): 21.04

Casing Volume Multiplier: ~~0.84~~ 0.04

Gallons in Well: 0.84

Well Condition: Good

**Field Parameters**

Sample Time (as on COC): 1340

Begin Purge: 1305

End Purge: 1335

Purge Volume: 0.90

Color: Clear

Odor: None

| Time | Water Level Ft' BTOC | Temperature C° | pH Units | ORP (mV) | Conductivity (µS/cm) | Dissolved Oxygen (mg/L) | Turbidity (NTU) | Purge Rate |
|---|---|---|---|---|---|---|---|---|
| 1315 | 4.04 | 15.20 | 4.86 | -53.9 | 146 | 1.47 | 17.6 | 0.03 |
| 1320 | 4.04 | 15.45 | 5.02 | -80.6 | 146 | 0.58 | 5.23 | 0.03 |
| 1325 | 4.04 | 15.40 | 5.02 | -87.6 | 146 | 0.55 | 5.20 | 0.03 |
| 1330 | 4.04 | 15.53 | 5.01 | -88.3 | 146 | 0.50 | 4.09 | 0.03 |
| 1335 | 4.04 | 15.79 | 5.01 | -89.9 | 146 | 0.49 | 3.59 | 0.03 |
| | | | | | | | | |
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| | | | MAS | | | | | |
| | | | | | | | | |

**Purge Data**

Pumping Rate (gpm): 0.03

Static Pumping Level: 4.04

Pump Intake Depth: 20

Equipment Used: YSI 556, GeoPump

Total Gallons Purged: 0.90

Boigeochemical Parameters: Fe (Iron): / CO2 / /

**Laboratory Data**

Laboratory Used: AES

Analysis Requested: VOC's 8260

QAQC Samples Taken: NA

**Casing Volume Multipliers**

| Gal./Ft. | | | | | |
|---|---|---|---|---|---|
| | ¾" = 0.026 | 1-¼" = 0.06 | 2" = 0.16 | 3" = 0.37 | 4" = 0.65 |
| | 1" = 0.041 | 1-½" = 0.09 | 2-½" = 0.26 | 3-½" = 0.50 | 6" = 1.47 |

| | | | | | |
|---|---|---|---|---|---|
| BTOC | below top of casing | ml | milliliter | NTU | Nephelometric Turbidity Units |
| °C | Degrees Celsius | mS/cm | Millisiemens per centimeter | PVC | Polyvinyl chloride |
| ft | feet | msl | mean sea-level | s.u. | Standard units |
| gpm | Gallons per minute | N/A | Not Applicable | umhos/cm | Micromhos per centimeter |
| mg/L | Miligrams per liter | NR | Not Recorded | VOC | Volatile Organic Compounds |

ARCADIS G&M

# Ground Water Sampling Log

Page 1 of 1

Site Location East Point, GA  Date 2-25-16  Sampler M. Myers

Project LaFarge  Project No. GA063865.0001

Site/Well No. TW-02  Weather Sunny, Windy

**Well Data**

Well Depth (ft BTOC) 40

Water Level (ft BTOC) 16.00

Water Column in Well (ft) 24.0

Casing Volume Multiplier 0.041

Gallons in Well 0.96

Well Condition Good

**Field Parameters**

Sample Time (as on COC) 1250

Begin Purge 1215

End Purge 1245

Purge Volume 0.90

Color Clear

Odor None

| Time | Water Level Ft' BTOC | Temperature C° | pH Units | ORP (mV) | Conductivity (µS/cm) | Dissolved Oxygen (mg/L) | Turbidity (NTU) | Purge Rate |
|---|---|---|---|---|---|---|---|---|
| 1225 | 16.17 | 18.64 | 4.86 | ~~100~~ 114.9 mV | 100 | 0.92 | 28.2 | 0.03 |
| 1230 | 16.17 | 18.52 | 4.80 | 162.0 | 100 | 0.79 | 20.4 | 0.03 |
| 1235 | 16.17 | 18.76 | 4.81 | -159.3 | 98 | 0.74 | 12.5 | 0.03 |
| 1240 | 16.17 | 18.64 | 4.82 | -154.1 | 98 | 0.70 | 9.42 | 0.03 |
| 1245 | 16.17 | 18.22 | 4.77 | -136.0 | 96 | 0.69 | 8.16 | 0.03 |
| | | | | | | | | |
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| | | | | | | | | |

MM 2-25-16

**Purge Data**

Pumping Rate (gpm) 0.03

Static Pumping Level 16.17

Pump Intake Depth 35

Equipment Used YSI 556, Geo Pump

Total Gallons Purged 0.90

Boigeochemical Parameters: Fe (Iron): ✓  CO2 ✓

**Laboratory Data**

Laboratory Used AES

Analysis Requested VOC's 8260

QAQC Samples Taken NA

**Casing Volume Multipliers**

| Gal./Ft. | | | | | |
|---|---|---|---|---|---|
| | ¾" = 0.026 | 1-¼" = 0.06 | 2" = 0.16 | 3" = 0.37 | 4" = 0.65 |
| | 1" = 0.041 | 1-½" = 0.09 | 2-½" = 0.26 | 3-½" = 0.50 | 6" = 1.47 |

| | | | | | |
|---|---|---|---|---|---|
| BTOC | below top of casing | ml | milliliter | NTU | Nephelometric Turbidity Units |
| °C | Degrees Celsius | mS/cm | Milisiemens per centimeter | PVC | Polyvinyl chloride |
| ft | feet | msl | mean sea-level | s.u. | Standard units |
| gpm | Gallons per minute | N/A | Not Applicable | umhos/cm | Micromhos per centimeter |
| mg/L | Milligrams per liter | NR | Not Recorded | VOC | Volatile Organic Compounds |

# ARCADIS G&M

## Ground Water Sampling Log

Page 1 of 1

Site Location East Point, GA  Date 2-25-16  Sampler M. Hays

Project LaFarge  Project No. GA063865.0001

Site/Well No. TW-03  Weather Sunny, Windy

**Well Data**

Well Depth (ft BTOC) 17

Water Level (ft BTOC) 4.98

Water Column in Well (ft) 12.02

Casing Volume Multiplier 0.04

Gallons in Well 0.48

Well Condition Good

**Field Parameters**

Sample Time (as on COC) 1145

Begin Purge 1055

End Purge 1140

Purge Volume 1.35

Color Clear

Odor None

| Time | Water Level Ft' BTOC | Temperature C° | pH Units | ORP (mV) | Conductivity (µS/cm) | Dissolved Oxygen (mg/L) | Turbidity (NTU) | Purge Rate (gpm) |
|---|---|---|---|---|---|---|---|---|
| 1105 | 6.16 | 16.26 | 5.54 | 84 | 172 | 6.64 | 957 | 0.03 |
| 1115 | 5.99 | 16.31 | 5.51 | -141.1 | 178 | 3.03 | 350 | 0.03 |
| 1125 | 6.00 | 16.22 | 5.47 | -144.6 | 175 | 3.10 | 138 | 0.03 |
| 1130 | 6.00 | 16.51 | 5.43 | -138.1 | 175 | 3.10 | 81.4 | 0.03 |
| 1135 | 5.99 | 16.93 | 5.48 | -106.3 | 176 | 3.17 | 21.7 | 0.03 |
| 1140 | 5.99 | 16.96 | 5.48 | -106.0 | 173 | 3.11 | 8.23 | 0.03 |
| | | | | | | | | |
| | | | | | | | | |
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| | | | | | | | | |

**Purge Data**

Pumping Rate (gpm) 0.03

Static Pumping Level 5.99

Pump Intake Depth 12

Equipment Used Peri Pump, YSI 556

Total Gallons Purged 1.35

Boigeochemical Parameters: Fe (Iron): —  CO2 —

**Laboratory Data**

Laboratory Used AES

Analysis Requested VOC's 8260

QAQC Samples Taken N/A

**Casing Volume Multipliers**

| Gal./Ft. | | | | | |
|---|---|---|---|---|---|
| | ¾" = 0.026 | 1-¼" = 0.06 | 2" = 0.16 | 3" = 0.37 | 4" = 0.65 |
| | 1" = 0.041 | 1-½" = 0.09 | 2-½" = 0.26 | 3-½" = 0.50 | 6" = 1.47 |

| | | | | | |
|---|---|---|---|---|---|
| BTOC | below top of casing | ml | milliliter | NTU | Nephelometric Turbidity Units |
| °C | Degrees Celsius | mS/cm | Milisiemens per centimeter | PVC | Polyvinyl chloride |
| ft | feet | msl | mean sea-level | s.u. | Standard units |
| gpm | Gallons per minute | N/A | Not Applicable | umhos/cm | Micromhos per centimeter |
| mg/L | Miligrams per liter | NR | Not Recorded | VOC | Volatile Organic Compounds |

# APPENDIX B

## Laboratory Analytical Reports – on CD

AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

November 25, 2015

Chris Miller
Arcadis
1000 Cobb Place Blvd., Bldg. 500-A
Kennesaw GA 30144

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

RE: Lafarge East Point

Dear Chris Miller: Order No: 1511E17

Analytical Environmental Services, Inc. received 14 samples on 11/13/2015 2:30:00 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 07/01/15-06/30/16.
-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 09/01/17.

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.

CRKanhai

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: 1511E17

Date: 11-13 Page 1 of 1

COMPANY: Aecom

ADDRESS: 1000 Cobb Place Blvd Bldg 300 Suite Kennesaw GA 30144

PHONE: (770) 423-9009

FAX:

SAMPLED BY: Mam Myo

SIGNATURE:

ANALYSIS REQUESTED: VOCs, Metals

Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.

| # | SAMPLE ID | SAMPLED DATE | SAMPLED TIME | Grab | Composite | Matrix (See codes) | PRESERVATION (See codes) HCl | N | REMARKS | No # of Containers |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | MW-23 (111115) | 11-11 | 1340 | X | | GW | 2 | | | 2 |
| 2 | MW-21 (111115) | 11-11 | 1440 | X | | GW | 2 | | | 2 |
| 3 | MW-6 (111115) | 11-11 | 1525 | X | | GW | 2 | | | 2 |
| 4 | MW-30 (111215) | 11-12 | 1500 | X | | GW | 2 | 1 | | 3 |
| 5 | MW-18 (111215) | 11-12 | 1415 | X | | GW | 2 | | | 2 |
| 6 | MW-17 (111215) | 11-12 | 1315 | X | | GW | 2 | 1 | | 3 |
| 7 | MW-31 (111215) | 11-12 | 1234 | X | | GW | 2 | 1 | | 3 |
| 8 | MW-16 (111215) | 11-12 | 1155 | X | | GW | 2 | | | 2 |
| 9 | MW-15 (111215) | 11-12 | 1110 | X | | GW | 2 | | | 2 |
| 10 | MW-2 (111315) | 11-13 | 1020 | X | | GW | 2 | 1 | | 3 |
| 11 | MW-3 (111315) | 11-13 | 1150 | X | | GW | 2 | 1 | | 3 |
| 12 | MW-5R (111315) | 11-13 | 1235 | X | | GW | 2 | 1 | | 3 |
| 13 | MW-4 (111315) | 11-13 | 1345 | X | | GW | 2 | 1 | | 3 |
| 14 | Trip Blank | 11-13 | | X | | GW | 2 | | | 2 |

RELINQUISHED BY / DATE/TIME

1: Mam Myo 11-13-15 / 1450

2:

3:

RECEIVED BY / DATE/TIME

1: Undia Cagle 11/13/15 2:30 PM

2:

3:

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD

OUT / / VIA:

IN / / VIA:

(CLIENT) FedEx UPS MAIL COURIER

GREYHOUND OTHER

PROJECT INFORMATION

PROJECT NAME: College East Point

PROJECT #: GAE HT 21751C

SITE ADDRESS: 2675 Av Main St East Point GA

SEND REPORT TO: Chris Miller

INVOICE TO: (IF DIFFERENT FROM ABOVE)

QUOTE #: PO#:

RECEIPT

Total # of Containers: 34

Turnaround Time Request

- (X) 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

**Analytical Environmental Services, Inc** **Date:** 25-Nov-15

| | | | |
|---|---|---|---|
| **Client:** | Arcadis | **Client Sample ID:** | MW-23 (111115) |
| **Project Name:** | Lafarge East Point | **Collection Date:** | 11/11/2015 1:40:00 PM |
| **Lab ID:** | 1511E17-001 | **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 | 216126 | 1 | 11/18/2015 18:46 | JE |
| 1,1,2,2-Tetrachloroethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 18:46 | JE |
| 1,1,2-Trichloroethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 18:46 | JE |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 18:46 | JE |
| 1,1-Dichloroethene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 18:46 | JE |
| 1,2,4-Trichlorobenzene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 18:46 | JE |
| 1,2-Dibromo-3-chloropropane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 18:46 | JE |
| 1,2-Dibromoethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 18:46 | JE |
| 1,2-Dichlorobenzene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 18:46 | JE |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 18:46 | JE |
| 1,2-Dichloropropane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 18:46 | JE |
| 1,3-Dichlorobenzene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 18:46 | JE |
| 1,4-Dichlorobenzene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 18:46 | JE |
| 2-Butanone | BRL | 50 | | ug/L | 216126 | 1 | 11/18/2015 18:46 | JE |
| 2-Hexanone | BRL | 10 | | ug/L | 216126 | 1 | 11/18/2015 18:46 | JE |
| 4-Methyl-2-pentanone | BRL | 10 | | ug/L | 216126 | 1 | 11/18/2015 18:46 | JE |
| Acetone | BRL | 50 | | ug/L | 216126 | 1 | 11/18/2015 18:46 | JE |
| Benzene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 18:46 | JE |
| Bromodichloromethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 18:46 | JE |
| Bromoform | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 18:46 | JE |
| Bromomethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 18:46 | JE |
| Carbon disulfide | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 18:46 | JE |
| Carbon tetrachloride | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 18:46 | JE |
| Chlorobenzene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 18:46 | JE |
| Chloroethane | BRL | 10 | | ug/L | 216126 | 1 | 11/18/2015 18:46 | JE |
| Chloroform | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 18:46 | JE |
| Chloromethane | BRL | 10 | | ug/L | 216126 | 1 | 11/18/2015 18:46 | JE |
| cis-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 18:46 | JE |
| cis-1,3-Dichloropropene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 18:46 | JE |
| Cyclohexane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 18:46 | JE |
| Dibromochloromethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 18:46 | JE |
| Dichlorodifluoromethane | BRL | 10 | | ug/L | 216126 | 1 | 11/18/2015 18:46 | JE |
| Ethylbenzene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 18:46 | JE |
| Freon-113 | BRL | 10 | | ug/L | 216126 | 1 | 11/18/2015 18:46 | JE |
| Isopropylbenzene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 18:46 | JE |
| m,p-Xylene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 18:46 | JE |
| Methyl acetate | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 18:46 | JE |
| Methyl tert-butyl ether | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 18:46 | JE |
| Methylcyclohexane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 18:46 | JE |
| Methylene chloride | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 18:46 | JE |
| o-Xylene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 18:46 | 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:** 25-Nov-15

| | | | |
|---|---|---|---|
| **Client:** | Arcadis | **Client Sample ID:** | MW-23 (111115) |
| **Project Name:** | Lafarge East Point | **Collection Date:** | 11/11/2015 1:40:00 PM |
| **Lab ID:** | 1511E17-001 | **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 | 216126 | 1 | 11/18/2015 18:46 | JE |
| Tetrachloroethene | 6.9 | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 18:46 | JE |
| Toluene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 18:46 | JE |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 18:46 | JE |
| trans-1,3-Dichloropropene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 18:46 | JE |
| Trichloroethene | 5.7 | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 18:46 | JE |
| Trichlorofluoromethane | 12 | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 18:46 | JE |
| Vinyl chloride | BRL | 2.0 | | ug/L | 216126 | 1 | 11/18/2015 18:46 | JE |
| Surr: 4-Bromofluorobenzene | 95.2 | 70.7-125 | | %REC | 216126 | 1 | 11/18/2015 18:46 | JE |
| Surr: Dibromofluoromethane | 96.9 | 82.2-120 | | %REC | 216126 | 1 | 11/18/2015 18:46 | JE |
| Surr: Toluene-d8 | 99.1 | 81.8-120 | | %REC | 216126 | 1 | 11/18/2015 18:46 | JE |

**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:** 25-Nov-15

| | | | |
|---|---|---|---|
| **Client:** | Arcadis | **Client Sample ID:** | MW-24 (11112015) |
| **Project Name:** | Lafarge East Point | **Collection Date:** | 11/11/2015 2:40:00 PM |
| **Lab ID:** | 1511E17-002 | **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 | 216126 | 1 | 11/18/2015 19:10 | JE |
| 1,1,2,2-Tetrachloroethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 19:10 | JE |
| 1,1,2-Trichloroethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 19:10 | JE |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 19:10 | JE |
| 1,1-Dichloroethene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 19:10 | JE |
| 1,2,4-Trichlorobenzene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 19:10 | JE |
| 1,2-Dibromo-3-chloropropane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 19:10 | JE |
| 1,2-Dibromoethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 19:10 | JE |
| 1,2-Dichlorobenzene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 19:10 | JE |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 19:10 | JE |
| 1,2-Dichloropropane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 19:10 | JE |
| 1,3-Dichlorobenzene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 19:10 | JE |
| 1,4-Dichlorobenzene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 19:10 | JE |
| 2-Butanone | BRL | 50 | | ug/L | 216126 | 1 | 11/18/2015 19:10 | JE |
| 2-Hexanone | BRL | 10 | | ug/L | 216126 | 1 | 11/18/2015 19:10 | JE |
| 4-Methyl-2-pentanone | BRL | 10 | | ug/L | 216126 | 1 | 11/18/2015 19:10 | JE |
| Acetone | BRL | 50 | | ug/L | 216126 | 1 | 11/18/2015 19:10 | JE |
| Benzene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 19:10 | JE |
| Bromodichloromethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 19:10 | JE |
| Bromoform | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 19:10 | JE |
| Bromomethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 19:10 | JE |
| Carbon disulfide | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 19:10 | JE |
| Carbon tetrachloride | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 19:10 | JE |
| Chlorobenzene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 19:10 | JE |
| Chloroethane | BRL | 10 | | ug/L | 216126 | 1 | 11/18/2015 19:10 | JE |
| Chloroform | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 19:10 | JE |
| Chloromethane | BRL | 10 | | ug/L | 216126 | 1 | 11/18/2015 19:10 | JE |
| cis-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 19:10 | JE |
| cis-1,3-Dichloropropene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 19:10 | JE |
| Cyclohexane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 19:10 | JE |
| Dibromochloromethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 19:10 | JE |
| Dichlorodifluoromethane | BRL | 10 | | ug/L | 216126 | 1 | 11/18/2015 19:10 | JE |
| Ethylbenzene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 19:10 | JE |
| Freon-113 | BRL | 10 | | ug/L | 216126 | 1 | 11/18/2015 19:10 | JE |
| Isopropylbenzene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 19:10 | JE |
| m,p-Xylene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 19:10 | JE |
| Methyl acetate | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 19:10 | JE |
| Methyl tert-butyl ether | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 19:10 | JE |
| Methylcyclohexane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 19:10 | JE |
| Methylene chloride | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 19:10 | JE |
| o-Xylene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 19:10 | 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:** 25-Nov-15

| | | | |
|---|---|---|---|
| **Client:** | Arcadis | **Client Sample ID:** | MW-24 (11112015) |
| **Project Name:** | Lafarge East Point | **Collection Date:** | 11/11/2015 2:40:00 PM |
| **Lab ID:** | 1511E17-002 | **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 | 216126 | 1 | 11/18/2015 19:10 | JE |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 19:10 | JE |
| Toluene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 19:10 | JE |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 19:10 | JE |
| trans-1,3-Dichloropropene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 19:10 | JE |
| Trichloroethene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 19:10 | JE |
| Trichlorofluoromethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 19:10 | JE |
| Vinyl chloride | BRL | 2.0 | | ug/L | 216126 | 1 | 11/18/2015 19:10 | JE |
| Surr: 4-Bromofluorobenzene | 94.3 | 70.7-125 | | %REC | 216126 | 1 | 11/18/2015 19:10 | JE |
| Surr: Dibromofluoromethane | 99.4 | 82.2-120 | | %REC | 216126 | 1 | 11/18/2015 19:10 | JE |
| Surr: Toluene-d8 | 96.5 | 81.8-120 | | %REC | 216126 | 1 | 11/18/2015 19:10 | JE |

**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:** 25-Nov-15

| | | | |
|---|---|---|---|
| **Client:** | Arcadis | **Client Sample ID:** | MW-6 (11112015) |
| **Project Name:** | Lafarge East Point | **Collection Date:** | 11/11/2015 3:25:00 PM |
| **Lab ID:** | 1511E17-003 | **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 | 216126 | 1 | 11/18/2015 19:34 | JE |
| 1,1,2,2-Tetrachloroethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 19:34 | JE |
| 1,1,2-Trichloroethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 19:34 | JE |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 19:34 | JE |
| 1,1-Dichloroethene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 19:34 | JE |
| 1,2,4-Trichlorobenzene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 19:34 | JE |
| 1,2-Dibromo-3-chloropropane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 19:34 | JE |
| 1,2-Dibromoethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 19:34 | JE |
| 1,2-Dichlorobenzene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 19:34 | JE |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 19:34 | JE |
| 1,2-Dichloropropane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 19:34 | JE |
| 1,3-Dichlorobenzene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 19:34 | JE |
| 1,4-Dichlorobenzene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 19:34 | JE |
| 2-Butanone | BRL | 50 | | ug/L | 216126 | 1 | 11/18/2015 19:34 | JE |
| 2-Hexanone | BRL | 10 | | ug/L | 216126 | 1 | 11/18/2015 19:34 | JE |
| 4-Methyl-2-pentanone | BRL | 10 | | ug/L | 216126 | 1 | 11/18/2015 19:34 | JE |
| Acetone | BRL | 50 | | ug/L | 216126 | 1 | 11/18/2015 19:34 | JE |
| Benzene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 19:34 | JE |
| Bromodichloromethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 19:34 | JE |
| Bromoform | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 19:34 | JE |
| Bromomethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 19:34 | JE |
| Carbon disulfide | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 19:34 | JE |
| Carbon tetrachloride | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 19:34 | JE |
| Chlorobenzene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 19:34 | JE |
| Chloroethane | BRL | 10 | | ug/L | 216126 | 1 | 11/18/2015 19:34 | JE |
| Chloroform | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 19:34 | JE |
| Chloromethane | BRL | 10 | | ug/L | 216126 | 1 | 11/18/2015 19:34 | JE |
| cis-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 19:34 | JE |
| cis-1,3-Dichloropropene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 19:34 | JE |
| Cyclohexane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 19:34 | JE |
| Dibromochloromethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 19:34 | JE |
| Dichlorodifluoromethane | BRL | 10 | | ug/L | 216126 | 1 | 11/18/2015 19:34 | JE |
| Ethylbenzene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 19:34 | JE |
| Freon-113 | BRL | 10 | | ug/L | 216126 | 1 | 11/18/2015 19:34 | JE |
| Isopropylbenzene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 19:34 | JE |
| m,p-Xylene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 19:34 | JE |
| Methyl acetate | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 19:34 | JE |
| Methyl tert-butyl ether | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 19:34 | JE |
| Methylcyclohexane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 19:34 | JE |
| Methylene chloride | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 19:34 | JE |
| o-Xylene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 19:34 | 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:** 25-Nov-15

| | | | |
|---|---|---|---|
| **Client:** | Arcadis | **Client Sample ID:** | MW-6 (11112015) |
| **Project Name:** | Lafarge East Point | **Collection Date:** | 11/11/2015 3:25:00 PM |
| **Lab ID:** | 1511E17-003 | **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 | 216126 | 1 | 11/18/2015 19:34 | JE |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 19:34 | JE |
| Toluene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 19:34 | JE |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 19:34 | JE |
| trans-1,3-Dichloropropene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 19:34 | JE |
| Trichloroethene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 19:34 | JE |
| Trichlorofluoromethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 19:34 | JE |
| Vinyl chloride | BRL | 2.0 | | ug/L | 216126 | 1 | 11/18/2015 19:34 | JE |
| Surr: 4-Bromofluorobenzene | 95.3 | 70.7-125 | | %REC | 216126 | 1 | 11/18/2015 19:34 | JE |
| Surr: Dibromofluoromethane | 94.5 | 82.2-120 | | %REC | 216126 | 1 | 11/18/2015 19:34 | JE |
| Surr: Toluene-d8 | 99.4 | 81.8-120 | | %REC | 216126 | 1 | 11/18/2015 19:34 | JE |

**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:** 25-Nov-15

| | | | |
|---|---|---|---|
| **Client:** | Arcadis | **Client Sample ID:** | MW-30 (11122015) |
| **Project Name:** | Lafarge East Point | **Collection Date:** | 11/12/2015 3:00:00 PM |
| **Lab ID:** | 1511E17-004 | **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 | 216040 | 1 | 11/18/2015 13:44 | TA |
| **TCL VOLATILE ORGANICS SW8260B** | | | | **(SW5030B)** | | | | |
| 1,1,1-Trichloroethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 19:58 | JE |
| 1,1,2,2-Tetrachloroethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 19:58 | JE |
| 1,1,2-Trichloroethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 19:58 | JE |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 19:58 | JE |
| 1,1-Dichloroethene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 19:58 | JE |
| 1,2,4-Trichlorobenzene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 19:58 | JE |
| 1,2-Dibromo-3-chloropropane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 19:58 | JE |
| 1,2-Dibromoethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 19:58 | JE |
| 1,2-Dichlorobenzene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 19:58 | JE |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 19:58 | JE |
| 1,2-Dichloropropane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 19:58 | JE |
| 1,3-Dichlorobenzene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 19:58 | JE |
| 1,4-Dichlorobenzene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 19:58 | JE |
| 2-Butanone | BRL | 50 | | ug/L | 216126 | 1 | 11/18/2015 19:58 | JE |
| 2-Hexanone | BRL | 10 | | ug/L | 216126 | 1 | 11/18/2015 19:58 | JE |
| 4-Methyl-2-pentanone | BRL | 10 | | ug/L | 216126 | 1 | 11/18/2015 19:58 | JE |
| Acetone | BRL | 50 | | ug/L | 216126 | 1 | 11/18/2015 19:58 | JE |
| Benzene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 19:58 | JE |
| Bromodichloromethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 19:58 | JE |
| Bromoform | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 19:58 | JE |
| Bromomethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 19:58 | JE |
| Carbon disulfide | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 19:58 | JE |
| Carbon tetrachloride | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 19:58 | JE |
| Chlorobenzene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 19:58 | JE |
| Chloroethane | BRL | 10 | | ug/L | 216126 | 1 | 11/18/2015 19:58 | JE |
| Chloroform | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 19:58 | JE |
| Chloromethane | BRL | 10 | | ug/L | 216126 | 1 | 11/18/2015 19:58 | JE |
| cis-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 19:58 | JE |
| cis-1,3-Dichloropropene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 19:58 | JE |
| Cyclohexane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 19:58 | JE |
| Dibromochloromethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 19:58 | JE |
| Dichlorodifluoromethane | BRL | 10 | | ug/L | 216126 | 1 | 11/18/2015 19:58 | JE |
| Ethylbenzene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 19:58 | JE |
| Freon-113 | BRL | 10 | | ug/L | 216126 | 1 | 11/18/2015 19:58 | JE |
| Isopropylbenzene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 19:58 | JE |
| m,p-Xylene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 19:58 | JE |
| Methyl acetate | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 19:58 | JE |
| Methyl tert-butyl ether | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 19:58 | 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

**Analytical Environmental Services, Inc** **Date:** 25-Nov-15

| | | | |
|---|---|---|---|
| **Client:** | Arcadis | **Client Sample ID:** | MW-30 (11122015) |
| **Project Name:** | Lafarge East Point | **Collection Date:** | 11/12/2015 3:00:00 PM |
| **Lab ID:** | 1511E17-004 | **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 | 216126 | 1 | 11/18/2015 19:58 | JE |
| Methylene chloride | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 19:58 | JE |
| o-Xylene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 19:58 | JE |
| Styrene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 19:58 | JE |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 19:58 | JE |
| Toluene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 19:58 | JE |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 19:58 | JE |
| trans-1,3-Dichloropropene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 19:58 | JE |
| Trichloroethene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 19:58 | JE |
| Trichlorofluoromethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 19:58 | JE |
| Vinyl chloride | BRL | 2.0 | | ug/L | 216126 | 1 | 11/18/2015 19:58 | JE |
| Surr: 4-Bromofluorobenzene | 97 | 70.7-125 | | %REC | 216126 | 1 | 11/18/2015 19:58 | JE |
| Surr: Dibromofluoromethane | 100 | 82.2-120 | | %REC | 216126 | 1 | 11/18/2015 19:58 | JE |
| Surr: Toluene-d8 | 98.6 | 81.8-120 | | %REC | 216126 | 1 | 11/18/2015 19:58 | 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

**Analytical Environmental Services, Inc** **Date:** 25-Nov-15

| | | | |
|---|---|---|---|
| **Client:** | Arcadis | **Client Sample ID:** | MW-18 (11122015) |
| **Project Name:** | Lafarge East Point | **Collection Date:** | 11/12/2015 2:15:00 PM |
| **Lab ID:** | 1511E17-005 | **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 | 216126 | 1 | 11/18/2015 20:23 | JE |
| 1,1,2,2-Tetrachloroethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 20:23 | JE |
| 1,1,2-Trichloroethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 20:23 | JE |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 20:23 | JE |
| 1,1-Dichloroethene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 20:23 | JE |
| 1,2,4-Trichlorobenzene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 20:23 | JE |
| 1,2-Dibromo-3-chloropropane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 20:23 | JE |
| 1,2-Dibromoethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 20:23 | JE |
| 1,2-Dichlorobenzene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 20:23 | JE |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 20:23 | JE |
| 1,2-Dichloropropane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 20:23 | JE |
| 1,3-Dichlorobenzene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 20:23 | JE |
| 1,4-Dichlorobenzene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 20:23 | JE |
| 2-Butanone | BRL | 50 | | ug/L | 216126 | 1 | 11/18/2015 20:23 | JE |
| 2-Hexanone | BRL | 10 | | ug/L | 216126 | 1 | 11/18/2015 20:23 | JE |
| 4-Methyl-2-pentanone | BRL | 10 | | ug/L | 216126 | 1 | 11/18/2015 20:23 | JE |
| Acetone | BRL | 50 | | ug/L | 216126 | 1 | 11/18/2015 20:23 | JE |
| Benzene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 20:23 | JE |
| Bromodichloromethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 20:23 | JE |
| Bromoform | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 20:23 | JE |
| Bromomethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 20:23 | JE |
| Carbon disulfide | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 20:23 | JE |
| Carbon tetrachloride | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 20:23 | JE |
| Chlorobenzene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 20:23 | JE |
| Chloroethane | BRL | 10 | | ug/L | 216126 | 1 | 11/18/2015 20:23 | JE |
| Chloroform | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 20:23 | JE |
| Chloromethane | BRL | 10 | | ug/L | 216126 | 1 | 11/18/2015 20:23 | JE |
| cis-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 20:23 | JE |
| cis-1,3-Dichloropropene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 20:23 | JE |
| Cyclohexane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 20:23 | JE |
| Dibromochloromethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 20:23 | JE |
| Dichlorodifluoromethane | BRL | 10 | | ug/L | 216126 | 1 | 11/18/2015 20:23 | JE |
| Ethylbenzene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 20:23 | JE |
| Freon-113 | BRL | 10 | | ug/L | 216126 | 1 | 11/18/2015 20:23 | JE |
| Isopropylbenzene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 20:23 | JE |
| m,p-Xylene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 20:23 | JE |
| Methyl acetate | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 20:23 | JE |
| Methyl tert-butyl ether | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 20:23 | JE |
| Methylcyclohexane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 20:23 | JE |
| Methylene chloride | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 20:23 | JE |
| o-Xylene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 20:23 | 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:** 25-Nov-15

| | | | |
|---|---|---|---|
| **Client:** | Arcadis | **Client Sample ID:** | MW-18 (11122015) |
| **Project Name:** | Lafarge East Point | **Collection Date:** | 11/12/2015 2:15:00 PM |
| **Lab ID:** | 1511E17-005 | **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 | 216126 | 1 | 11/18/2015 20:23 | JE |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 20:23 | JE |
| Toluene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 20:23 | JE |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 20:23 | JE |
| trans-1,3-Dichloropropene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 20:23 | JE |
| Trichloroethene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 20:23 | JE |
| Trichlorofluoromethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 20:23 | JE |
| Vinyl chloride | BRL | 2.0 | | ug/L | 216126 | 1 | 11/18/2015 20:23 | JE |
| Surr: 4-Bromofluorobenzene | 94.7 | 70.7-125 | | %REC | 216126 | 1 | 11/18/2015 20:23 | JE |
| Surr: Dibromofluoromethane | 95.9 | 82.2-120 | | %REC | 216126 | 1 | 11/18/2015 20:23 | JE |
| Surr: Toluene-d8 | 100 | 81.8-120 | | %REC | 216126 | 1 | 11/18/2015 20:23 | JE |

**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:** 25-Nov-15

| | | | |
|---|---|---|---|
| **Client:** | Arcadis | **Client Sample ID:** | MW-17 (11122015) |
| **Project Name:** | Lafarge East Point | **Collection Date:** | 11/12/2015 1:15:00 PM |
| **Lab ID:** | 1511E17-006 | **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 | 216040 | 1 | 11/18/2015 13:47 | TA |
| **TCL VOLATILE ORGANICS SW8260B** | | | | **(SW5030B)** | | | | |
| 1,1,1-Trichloroethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 16:26 | JE |
| 1,1,2,2-Tetrachloroethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 16:26 | JE |
| 1,1,2-Trichloroethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 16:26 | JE |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 16:26 | JE |
| 1,1-Dichloroethene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 16:26 | JE |
| 1,2,4-Trichlorobenzene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 16:26 | JE |
| 1,2-Dibromo-3-chloropropane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 16:26 | JE |
| 1,2-Dibromoethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 16:26 | JE |
| 1,2-Dichlorobenzene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 16:26 | JE |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 16:26 | JE |
| 1,2-Dichloropropane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 16:26 | JE |
| 1,3-Dichlorobenzene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 16:26 | JE |
| 1,4-Dichlorobenzene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 16:26 | JE |
| 2-Butanone | BRL | 50 | | ug/L | 216126 | 1 | 11/19/2015 16:26 | JE |
| 2-Hexanone | BRL | 10 | | ug/L | 216126 | 1 | 11/19/2015 16:26 | JE |
| 4-Methyl-2-pentanone | BRL | 10 | | ug/L | 216126 | 1 | 11/19/2015 16:26 | JE |
| Acetone | BRL | 50 | | ug/L | 216126 | 1 | 11/19/2015 16:26 | JE |
| Benzene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 16:26 | JE |
| Bromodichloromethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 16:26 | JE |
| Bromoform | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 16:26 | JE |
| Bromomethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 16:26 | JE |
| Carbon disulfide | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 16:26 | JE |
| Carbon tetrachloride | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 16:26 | JE |
| Chlorobenzene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 16:26 | JE |
| Chloroethane | BRL | 10 | | ug/L | 216126 | 1 | 11/19/2015 16:26 | JE |
| Chloroform | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 16:26 | JE |
| Chloromethane | BRL | 10 | | ug/L | 216126 | 1 | 11/19/2015 16:26 | JE |
| cis-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 16:26 | JE |
| cis-1,3-Dichloropropene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 16:26 | JE |
| Cyclohexane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 16:26 | JE |
| Dibromochloromethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 16:26 | JE |
| Dichlorodifluoromethane | BRL | 10 | | ug/L | 216126 | 1 | 11/19/2015 16:26 | JE |
| Ethylbenzene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 16:26 | JE |
| Freon-113 | BRL | 10 | | ug/L | 216126 | 1 | 11/19/2015 16:26 | JE |
| Isopropylbenzene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 16:26 | JE |
| m,p-Xylene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 16:26 | JE |
| Methyl acetate | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 16:26 | JE |
| Methyl tert-butyl ether | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 16:26 | 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:** 25-Nov-15

| | | | |
|---|---|---|---|
| **Client:** | Arcadis | **Client Sample ID:** | MW-17 (11122015) |
| **Project Name:** | Lafarge East Point | **Collection Date:** | 11/12/2015 1:15:00 PM |
| **Lab ID:** | 1511E17-006 | **Matrix:** | Groundwater |

| Analyses | Result | Reporting Limit | Qual | Units | BatchID | Dilution Factor | Date Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|
| **TCL VOLATILE ORGANICS SW8260B** | | | | **(SW5030B)** | | | | |
| Methylcyclohexane | 7.8 | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 16:26 | JE |
| Methylene chloride | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 16:26 | JE |
| o-Xylene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 16:26 | JE |
| Styrene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 16:26 | JE |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 16:26 | JE |
| Toluene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 16:26 | JE |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 16:26 | JE |
| trans-1,3-Dichloropropene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 16:26 | JE |
| Trichloroethene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 16:26 | JE |
| Trichlorofluoromethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 16:26 | JE |
| Vinyl chloride | BRL | 2.0 | | ug/L | 216126 | 1 | 11/19/2015 16:26 | JE |
| Surr: 4-Bromofluorobenzene | 94.5 | 70.7-125 | | %REC | 216126 | 1 | 11/19/2015 16:26 | JE |
| Surr: Dibromofluoromethane | 95 | 82.2-120 | | %REC | 216126 | 1 | 11/19/2015 16:26 | JE |
| Surr: Toluene-d8 | 98.8 | 81.8-120 | | %REC | 216126 | 1 | 11/19/2015 16:26 | 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:** 25-Nov-15

| | | | |
|---|---|---|---|
| **Client:** | Arcadis | **Client Sample ID:** | MW-31 (11122015) |
| **Project Name:** | Lafarge East Point | **Collection Date:** | 11/12/2015 12:38:00 PM |
| **Lab ID:** | 1511E17-007 | **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 | 216040 | 1 | 11/18/2015 13:50 | TA |
| **TCL VOLATILE ORGANICS SW8260B** | | | | **(SW5030B)** | | | | |
| 1,1,1-Trichloroethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 21:11 | JE |
| 1,1,2,2-Tetrachloroethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 21:11 | JE |
| 1,1,2-Trichloroethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 21:11 | JE |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 21:11 | JE |
| 1,1-Dichloroethene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 21:11 | JE |
| 1,2,4-Trichlorobenzene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 21:11 | JE |
| 1,2-Dibromo-3-chloropropane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 21:11 | JE |
| 1,2-Dibromoethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 21:11 | JE |
| 1,2-Dichlorobenzene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 21:11 | JE |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 21:11 | JE |
| 1,2-Dichloropropane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 21:11 | JE |
| 1,3-Dichlorobenzene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 21:11 | JE |
| 1,4-Dichlorobenzene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 21:11 | JE |
| 2-Butanone | BRL | 50 | | ug/L | 216126 | 1 | 11/18/2015 21:11 | JE |
| 2-Hexanone | BRL | 10 | | ug/L | 216126 | 1 | 11/18/2015 21:11 | JE |
| 4-Methyl-2-pentanone | BRL | 10 | | ug/L | 216126 | 1 | 11/18/2015 21:11 | JE |
| Acetone | BRL | 50 | | ug/L | 216126 | 1 | 11/18/2015 21:11 | JE |
| Benzene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 21:11 | JE |
| Bromodichloromethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 21:11 | JE |
| Bromoform | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 21:11 | JE |
| Bromomethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 21:11 | JE |
| Carbon disulfide | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 21:11 | JE |
| Carbon tetrachloride | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 21:11 | JE |
| Chlorobenzene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 21:11 | JE |
| Chloroethane | BRL | 10 | | ug/L | 216126 | 1 | 11/18/2015 21:11 | JE |
| Chloroform | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 21:11 | JE |
| Chloromethane | BRL | 10 | | ug/L | 216126 | 1 | 11/18/2015 21:11 | JE |
| cis-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 21:11 | JE |
| cis-1,3-Dichloropropene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 21:11 | JE |
| Cyclohexane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 21:11 | JE |
| Dibromochloromethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 21:11 | JE |
| Dichlorodifluoromethane | BRL | 10 | | ug/L | 216126 | 1 | 11/18/2015 21:11 | JE |
| Ethylbenzene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 21:11 | JE |
| Freon-113 | BRL | 10 | | ug/L | 216126 | 1 | 11/18/2015 21:11 | JE |
| Isopropylbenzene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 21:11 | JE |
| m,p-Xylene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 21:11 | JE |
| Methyl acetate | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 21:11 | JE |
| Methyl tert-butyl ether | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 21:11 | 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:** 25-Nov-15

| | | | |
|---|---|---|---|
| **Client:** | Arcadis | **Client Sample ID:** | MW-31 (11122015) |
| **Project Name:** | Lafarge East Point | **Collection Date:** | 11/12/2015 12:38:00 PM |
| **Lab ID:** | 1511E17-007 | **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 | 216126 | 1 | 11/18/2015 21:11 | JE |
| Methylene chloride | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 21:11 | JE |
| o-Xylene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 21:11 | JE |
| Styrene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 21:11 | JE |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 21:11 | JE |
| Toluene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 21:11 | JE |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 21:11 | JE |
| trans-1,3-Dichloropropene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 21:11 | JE |
| Trichloroethene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 21:11 | JE |
| Trichlorofluoromethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 21:11 | JE |
| Vinyl chloride | 31 | 2.0 | | ug/L | 216126 | 1 | 11/18/2015 21:11 | JE |
| Surr: 4-Bromofluorobenzene | 93.6 | 70.7-125 | | %REC | 216126 | 1 | 11/18/2015 21:11 | JE |
| Surr: Dibromofluoromethane | 97.9 | 82.2-120 | | %REC | 216126 | 1 | 11/18/2015 21:11 | JE |
| Surr: Toluene-d8 | 98.4 | 81.8-120 | | %REC | 216126 | 1 | 11/18/2015 21:11 | JE |

**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:** 25-Nov-15

| | | | |
|---|---|---|---|
| **Client:** | Arcadis | **Client Sample ID:** | MW-16 (11122015) |
| **Project Name:** | Lafarge East Point | **Collection Date:** | 11/12/2015 11:55:00 AM |
| **Lab ID:** | 1511E17-008 | **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 | 216126 | 1 | 11/19/2015 07:42 | CH |
| 1,1,2,2-Tetrachloroethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 07:42 | CH |
| 1,1,2-Trichloroethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 07:42 | CH |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 07:42 | CH |
| 1,1-Dichloroethene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 07:42 | CH |
| 1,2,4-Trichlorobenzene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 07:42 | CH |
| 1,2-Dibromo-3-chloropropane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 07:42 | CH |
| 1,2-Dibromoethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 07:42 | CH |
| 1,2-Dichlorobenzene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 07:42 | CH |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 07:42 | CH |
| 1,2-Dichloropropane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 07:42 | CH |
| 1,3-Dichlorobenzene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 07:42 | CH |
| 1,4-Dichlorobenzene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 07:42 | CH |
| 2-Butanone | BRL | 50 | | ug/L | 216126 | 1 | 11/19/2015 07:42 | CH |
| 2-Hexanone | BRL | 10 | | ug/L | 216126 | 1 | 11/19/2015 07:42 | CH |
| 4-Methyl-2-pentanone | BRL | 10 | | ug/L | 216126 | 1 | 11/19/2015 07:42 | CH |
| Acetone | BRL | 50 | | ug/L | 216126 | 1 | 11/19/2015 07:42 | CH |
| Benzene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 07:42 | CH |
| Bromodichloromethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 07:42 | CH |
| Bromoform | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 07:42 | CH |
| Bromomethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 07:42 | CH |
| Carbon disulfide | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 07:42 | CH |
| Carbon tetrachloride | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 07:42 | CH |
| Chlorobenzene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 07:42 | CH |
| Chloroethane | BRL | 10 | | ug/L | 216126 | 1 | 11/19/2015 07:42 | CH |
| Chloroform | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 07:42 | CH |
| Chloromethane | BRL | 10 | | ug/L | 216126 | 1 | 11/19/2015 07:42 | CH |
| cis-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 07:42 | CH |
| cis-1,3-Dichloropropene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 07:42 | CH |
| Cyclohexane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 07:42 | CH |
| Dibromochloromethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 07:42 | CH |
| Dichlorodifluoromethane | BRL | 10 | | ug/L | 216126 | 1 | 11/19/2015 07:42 | CH |
| Ethylbenzene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 07:42 | CH |
| Freon-113 | BRL | 10 | | ug/L | 216126 | 1 | 11/19/2015 07:42 | CH |
| Isopropylbenzene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 07:42 | CH |
| m,p-Xylene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 07:42 | CH |
| Methyl acetate | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 07:42 | CH |
| Methyl tert-butyl ether | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 07:42 | CH |
| Methylcyclohexane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 07:42 | CH |
| Methylene chloride | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 07:42 | CH |
| o-Xylene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 07:42 | CH |

**Qualifiers:**

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike 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:** 25-Nov-15

| | | | |
|---|---|---|---|
| **Client:** | Arcadis | **Client Sample ID:** | MW-16 (11122015) |
| **Project Name:** | Lafarge East Point | **Collection Date:** | 11/12/2015 11:55:00 AM |
| **Lab ID:** | 1511E17-008 | **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 | 216126 | 1 | 11/19/2015 07:42 | CH |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 07:42 | CH |
| Toluene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 07:42 | CH |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 07:42 | CH |
| trans-1,3-Dichloropropene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 07:42 | CH |
| Trichloroethene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 07:42 | CH |
| Trichlorofluoromethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 07:42 | CH |
| Vinyl chloride | BRL | 2.0 | | ug/L | 216126 | 1 | 11/19/2015 07:42 | CH |
| Surr: 4-Bromofluorobenzene | 93.2 | 70.7-125 | | %REC | 216126 | 1 | 11/19/2015 07:42 | CH |
| Surr: Dibromofluoromethane | 97.4 | 82.2-120 | | %REC | 216126 | 1 | 11/19/2015 07:42 | CH |
| Surr: Toluene-d8 | 97.6 | 81.8-120 | | %REC | 216126 | 1 | 11/19/2015 07:42 | CH |

**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:** 25-Nov-15

| | | | |
|---|---|---|---|
| **Client:** | Arcadis | **Client Sample ID:** | MW-15 (11122015) |
| **Project Name:** | Lafarge East Point | **Collection Date:** | 11/12/2015 11:10:00 AM |
| **Lab ID:** | 1511E17-009 | **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 | 216126 | 1 | 11/19/2015 08:06 | CH |
| 1,1,2,2-Tetrachloroethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 08:06 | CH |
| 1,1,2-Trichloroethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 08:06 | CH |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 08:06 | CH |
| 1,1-Dichloroethene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 08:06 | CH |
| 1,2,4-Trichlorobenzene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 08:06 | CH |
| 1,2-Dibromo-3-chloropropane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 08:06 | CH |
| 1,2-Dibromoethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 08:06 | CH |
| 1,2-Dichlorobenzene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 08:06 | CH |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 08:06 | CH |
| 1,2-Dichloropropane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 08:06 | CH |
| 1,3-Dichlorobenzene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 08:06 | CH |
| 1,4-Dichlorobenzene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 08:06 | CH |
| 2-Butanone | BRL | 50 | | ug/L | 216126 | 1 | 11/19/2015 08:06 | CH |
| 2-Hexanone | BRL | 10 | | ug/L | 216126 | 1 | 11/19/2015 08:06 | CH |
| 4-Methyl-2-pentanone | BRL | 10 | | ug/L | 216126 | 1 | 11/19/2015 08:06 | CH |
| Acetone | BRL | 50 | | ug/L | 216126 | 1 | 11/19/2015 08:06 | CH |
| Benzene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 08:06 | CH |
| Bromodichloromethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 08:06 | CH |
| Bromoform | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 08:06 | CH |
| Bromomethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 08:06 | CH |
| Carbon disulfide | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 08:06 | CH |
| Carbon tetrachloride | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 08:06 | CH |
| Chlorobenzene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 08:06 | CH |
| Chloroethane | BRL | 10 | | ug/L | 216126 | 1 | 11/19/2015 08:06 | CH |
| Chloroform | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 08:06 | CH |
| Chloromethane | BRL | 10 | | ug/L | 216126 | 1 | 11/19/2015 08:06 | CH |
| cis-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 08:06 | CH |
| cis-1,3-Dichloropropene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 08:06 | CH |
| Cyclohexane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 08:06 | CH |
| Dibromochloromethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 08:06 | CH |
| Dichlorodifluoromethane | BRL | 10 | | ug/L | 216126 | 1 | 11/19/2015 08:06 | CH |
| Ethylbenzene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 08:06 | CH |
| Freon-113 | BRL | 10 | | ug/L | 216126 | 1 | 11/19/2015 08:06 | CH |
| Isopropylbenzene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 08:06 | CH |
| m,p-Xylene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 08:06 | CH |
| Methyl acetate | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 08:06 | CH |
| Methyl tert-butyl ether | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 08:06 | CH |
| Methylcyclohexane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 08:06 | CH |
| Methylene chloride | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 08:06 | CH |
| o-Xylene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 08:06 | CH |

**Qualifiers:**

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike 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:** 25-Nov-15

| | | | |
|---|---|---|---|
| **Client:** | Arcadis | **Client Sample ID:** | MW-15 (11122015) |
| **Project Name:** | Lafarge East Point | **Collection Date:** | 11/12/2015 11:10:00 AM |
| **Lab ID:** | 1511E17-009 | **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 | 216126 | 1 | 11/19/2015 08:06 | CH |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 08:06 | CH |
| Toluene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 08:06 | CH |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 08:06 | CH |
| trans-1,3-Dichloropropene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 08:06 | CH |
| Trichloroethene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 08:06 | CH |
| Trichlorofluoromethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 08:06 | CH |
| Vinyl chloride | BRL | 2.0 | | ug/L | 216126 | 1 | 11/19/2015 08:06 | CH |
| Surr: 4-Bromofluorobenzene | 93.4 | 70.7-125 | | %REC | 216126 | 1 | 11/19/2015 08:06 | CH |
| Surr: Dibromofluoromethane | 98.4 | 82.2-120 | | %REC | 216126 | 1 | 11/19/2015 08:06 | CH |
| Surr: Toluene-d8 | 100 | 81.8-120 | | %REC | 216126 | 1 | 11/19/2015 08:06 | CH |

**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:** 25-Nov-15

| | | | |
|---|---|---|---|
| **Client:** | Arcadis | **Client Sample ID:** | MW-2 (11132015) |
| **Project Name:** | Lafarge East Point | **Collection Date:** | 11/13/2015 10:20:00 AM |
| **Lab ID:** | 1511E17-010 | **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 | 216040 | 1 | 11/18/2015 13:53 | TA |
| **TCL VOLATILE ORGANICS SW8260B** | | | | **(SW5030B)** | | | | |
| 1,1,1-Trichloroethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 17:14 | JE |
| 1,1,2,2-Tetrachloroethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 17:14 | JE |
| 1,1,2-Trichloroethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 17:14 | JE |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 17:14 | JE |
| 1,1-Dichloroethene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 17:14 | JE |
| 1,2,4-Trichlorobenzene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 17:14 | JE |
| 1,2-Dibromo-3-chloropropane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 17:14 | JE |
| 1,2-Dibromoethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 17:14 | JE |
| 1,2-Dichlorobenzene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 17:14 | JE |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 17:14 | JE |
| 1,2-Dichloropropane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 17:14 | JE |
| 1,3-Dichlorobenzene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 17:14 | JE |
| 1,4-Dichlorobenzene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 17:14 | JE |
| 2-Butanone | BRL | 50 | | ug/L | 216126 | 1 | 11/19/2015 17:14 | JE |
| 2-Hexanone | BRL | 10 | | ug/L | 216126 | 1 | 11/19/2015 17:14 | JE |
| 4-Methyl-2-pentanone | BRL | 10 | | ug/L | 216126 | 1 | 11/19/2015 17:14 | JE |
| Acetone | BRL | 50 | | ug/L | 216126 | 1 | 11/19/2015 17:14 | JE |
| Benzene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 17:14 | JE |
| Bromodichloromethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 17:14 | JE |
| Bromoform | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 17:14 | JE |
| Bromomethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 17:14 | JE |
| Carbon disulfide | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 17:14 | JE |
| Carbon tetrachloride | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 17:14 | JE |
| Chlorobenzene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 17:14 | JE |
| Chloroethane | BRL | 10 | | ug/L | 216126 | 1 | 11/19/2015 17:14 | JE |
| Chloroform | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 17:14 | JE |
| Chloromethane | BRL | 10 | | ug/L | 216126 | 1 | 11/19/2015 17:14 | JE |
| cis-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 17:14 | JE |
| cis-1,3-Dichloropropene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 17:14 | JE |
| Cyclohexane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 17:14 | JE |
| Dibromochloromethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 17:14 | JE |
| Dichlorodifluoromethane | BRL | 10 | | ug/L | 216126 | 1 | 11/19/2015 17:14 | JE |
| Ethylbenzene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 17:14 | JE |
| Freon-113 | BRL | 10 | | ug/L | 216126 | 1 | 11/19/2015 17:14 | JE |
| Isopropylbenzene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 17:14 | JE |
| m,p-Xylene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 17:14 | JE |
| Methyl acetate | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 17:14 | JE |
| Methyl tert-butyl ether | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 17:14 | 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

**Analytical Environmental Services, Inc** **Date:** 25-Nov-15

| | | | |
|---|---|---|---|
| **Client:** | Arcadis | **Client Sample ID:** | MW-2 (11132015) |
| **Project Name:** | Lafarge East Point | **Collection Date:** | 11/13/2015 10:20:00 AM |
| **Lab ID:** | 1511E17-010 | **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 | 216126 | 1 | 11/19/2015 17:14 | JE |
| Methylene chloride | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 17:14 | JE |
| o-Xylene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 17:14 | JE |
| Styrene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 17:14 | JE |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 17:14 | JE |
| Toluene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 17:14 | JE |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 17:14 | JE |
| trans-1,3-Dichloropropene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 17:14 | JE |
| Trichloroethene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 17:14 | JE |
| Trichlorofluoromethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 17:14 | JE |
| Vinyl chloride | BRL | 2.0 | | ug/L | 216126 | 1 | 11/19/2015 17:14 | JE |
| Surr: 4-Bromofluorobenzene | 95.1 | 70.7-125 | | %REC | 216126 | 1 | 11/19/2015 17:14 | JE |
| Surr: Dibromofluoromethane | 95.4 | 82.2-120 | | %REC | 216126 | 1 | 11/19/2015 17:14 | JE |
| Surr: Toluene-d8 | 97.8 | 81.8-120 | | %REC | 216126 | 1 | 11/19/2015 17:14 | JE |

**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:** 25-Nov-15

| | | | |
|---|---|---|---|
| **Client:** | Arcadis | **Client Sample ID:** | MW-3 (11132015) |
| **Project Name:** | Lafarge East Point | **Collection Date:** | 11/13/2015 11:50:00 AM |
| **Lab ID:** | 1511E17-011 | **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 | 216040 | 1 | 11/18/2015 13:56 | TA |
| **TCL VOLATILE ORGANICS SW8260B** | | | | **(SW5030B)** | | | | |
| 1,1,1-Trichloroethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 08:30 | CH |
| 1,1,2,2-Tetrachloroethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 08:30 | CH |
| 1,1,2-Trichloroethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 08:30 | CH |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 08:30 | CH |
| 1,1-Dichloroethene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 08:30 | CH |
| 1,2,4-Trichlorobenzene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 08:30 | CH |
| 1,2-Dibromo-3-chloropropane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 08:30 | CH |
| 1,2-Dibromoethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 08:30 | CH |
| 1,2-Dichlorobenzene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 08:30 | CH |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 08:30 | CH |
| 1,2-Dichloropropane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 08:30 | CH |
| 1,3-Dichlorobenzene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 08:30 | CH |
| 1,4-Dichlorobenzene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 08:30 | CH |
| 2-Butanone | BRL | 50 | | ug/L | 216126 | 1 | 11/19/2015 08:30 | CH |
| 2-Hexanone | BRL | 10 | | ug/L | 216126 | 1 | 11/19/2015 08:30 | CH |
| 4-Methyl-2-pentanone | BRL | 10 | | ug/L | 216126 | 1 | 11/19/2015 08:30 | CH |
| Acetone | BRL | 50 | | ug/L | 216126 | 1 | 11/19/2015 08:30 | CH |
| Benzene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 08:30 | CH |
| Bromodichloromethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 08:30 | CH |
| Bromoform | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 08:30 | CH |
| Bromomethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 08:30 | CH |
| Carbon disulfide | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 08:30 | CH |
| Carbon tetrachloride | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 08:30 | CH |
| Chlorobenzene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 08:30 | CH |
| Chloroethane | BRL | 10 | | ug/L | 216126 | 1 | 11/19/2015 08:30 | CH |
| Chloroform | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 08:30 | CH |
| Chloromethane | BRL | 10 | | ug/L | 216126 | 1 | 11/19/2015 08:30 | CH |
| cis-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 08:30 | CH |
| cis-1,3-Dichloropropene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 08:30 | CH |
| Cyclohexane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 08:30 | CH |
| Dibromochloromethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 08:30 | CH |
| Dichlorodifluoromethane | BRL | 10 | | ug/L | 216126 | 1 | 11/19/2015 08:30 | CH |
| Ethylbenzene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 08:30 | CH |
| Freon-113 | BRL | 10 | | ug/L | 216126 | 1 | 11/19/2015 08:30 | CH |
| Isopropylbenzene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 08:30 | CH |
| m,p-Xylene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 08:30 | CH |
| Methyl acetate | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 08:30 | CH |
| Methyl tert-butyl ether | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 08:30 | CH |

**Qualifiers:**

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike 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:** 25-Nov-15

| | | | |
|---|---|---|---|
| **Client:** | Arcadis | **Client Sample ID:** | MW-3 (11132015) |
| **Project Name:** | Lafarge East Point | **Collection Date:** | 11/13/2015 11:50:00 AM |
| **Lab ID:** | 1511E17-011 | **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 | 216126 | 1 | 11/19/2015 08:30 | CH |
| Methylene chloride | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 08:30 | CH |
| o-Xylene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 08:30 | CH |
| Styrene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 08:30 | CH |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 08:30 | CH |
| Toluene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 08:30 | CH |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 08:30 | CH |
| trans-1,3-Dichloropropene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 08:30 | CH |
| Trichloroethene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 08:30 | CH |
| Trichlorofluoromethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 08:30 | CH |
| Vinyl chloride | BRL | 2.0 | | ug/L | 216126 | 1 | 11/19/2015 08:30 | CH |
| Surr: 4-Bromofluorobenzene | 95.7 | 70.7-125 | | %REC | 216126 | 1 | 11/19/2015 08:30 | CH |
| Surr: Dibromofluoromethane | 101 | 82.2-120 | | %REC | 216126 | 1 | 11/19/2015 08:30 | CH |
| Surr: Toluene-d8 | 98 | 81.8-120 | | %REC | 216126 | 1 | 11/19/2015 08:30 | CH |

**Qualifiers:**

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike 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:** 25-Nov-15

| | | | |
|---|---|---|---|
| **Client:** | Arcadis | **Client Sample ID:** | MW-5R (11132015) |
| **Project Name:** | Lafarge East Point | **Collection Date:** | 11/13/2015 12:35:00 PM |
| **Lab ID:** | 1511E17-012 | **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 | 216040 | 1 | 11/18/2015 14:01 | TA |
| **TCL VOLATILE ORGANICS SW8260B** | | | | **(SW5030B)** | | | | |
| 1,1,1-Trichloroethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 08:54 | CH |
| 1,1,2,2-Tetrachloroethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 08:54 | CH |
| 1,1,2-Trichloroethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 08:54 | CH |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 08:54 | CH |
| 1,1-Dichloroethene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 08:54 | CH |
| 1,2,4-Trichlorobenzene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 08:54 | CH |
| 1,2-Dibromo-3-chloropropane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 08:54 | CH |
| 1,2-Dibromoethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 08:54 | CH |
| 1,2-Dichlorobenzene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 08:54 | CH |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 08:54 | CH |
| 1,2-Dichloropropane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 08:54 | CH |
| 1,3-Dichlorobenzene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 08:54 | CH |
| 1,4-Dichlorobenzene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 08:54 | CH |
| 2-Butanone | BRL | 50 | | ug/L | 216126 | 1 | 11/19/2015 08:54 | CH |
| 2-Hexanone | BRL | 10 | | ug/L | 216126 | 1 | 11/19/2015 08:54 | CH |
| 4-Methyl-2-pentanone | BRL | 10 | | ug/L | 216126 | 1 | 11/19/2015 08:54 | CH |
| Acetone | BRL | 50 | | ug/L | 216126 | 1 | 11/19/2015 08:54 | CH |
| Benzene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 08:54 | CH |
| Bromodichloromethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 08:54 | CH |
| Bromoform | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 08:54 | CH |
| Bromomethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 08:54 | CH |
| Carbon disulfide | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 08:54 | CH |
| Carbon tetrachloride | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 08:54 | CH |
| Chlorobenzene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 08:54 | CH |
| Chloroethane | BRL | 10 | | ug/L | 216126 | 1 | 11/19/2015 08:54 | CH |
| Chloroform | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 08:54 | CH |
| Chloromethane | BRL | 10 | | ug/L | 216126 | 1 | 11/19/2015 08:54 | CH |
| cis-1,2-Dichloroethene | 19 | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 08:54 | CH |
| cis-1,3-Dichloropropene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 08:54 | CH |
| Cyclohexane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 08:54 | CH |
| Dibromochloromethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 08:54 | CH |
| Dichlorodifluoromethane | BRL | 10 | | ug/L | 216126 | 1 | 11/19/2015 08:54 | CH |
| Ethylbenzene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 08:54 | CH |
| Freon-113 | BRL | 10 | | ug/L | 216126 | 1 | 11/19/2015 08:54 | CH |
| Isopropylbenzene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 08:54 | CH |
| m,p-Xylene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 08:54 | CH |
| Methyl acetate | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 08:54 | CH |
| Methyl tert-butyl ether | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 08:54 | CH |

**Qualifiers:**

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike 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:** 25-Nov-15

| | | | |
|---|---|---|---|
| **Client:** | Arcadis | **Client Sample ID:** | MW-5R (11132015) |
| **Project Name:** | Lafarge East Point | **Collection Date:** | 11/13/2015 12:35:00 PM |
| **Lab ID:** | 1511E17-012 | **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 | 216126 | 1 | 11/19/2015 08:54 | CH |
| Methylene chloride | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 08:54 | CH |
| o-Xylene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 08:54 | CH |
| Styrene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 08:54 | CH |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 08:54 | CH |
| Toluene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 08:54 | CH |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 08:54 | CH |
| trans-1,3-Dichloropropene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 08:54 | CH |
| Trichloroethene | 25 | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 08:54 | CH |
| Trichlorofluoromethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 08:54 | CH |
| Vinyl chloride | BRL | 2.0 | | ug/L | 216126 | 1 | 11/19/2015 08:54 | CH |
| Surr: 4-Bromofluorobenzene | 92.9 | 70.7-125 | | %REC | 216126 | 1 | 11/19/2015 08:54 | CH |
| Surr: Dibromofluoromethane | 95.9 | 82.2-120 | | %REC | 216126 | 1 | 11/19/2015 08:54 | CH |
| Surr: Toluene-d8 | 100 | 81.8-120 | | %REC | 216126 | 1 | 11/19/2015 08:54 | CH |

**Qualifiers:**

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike 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:** 25-Nov-15

| | | | |
|---|---|---|---|
| **Client:** | Arcadis | **Client Sample ID:** | MW-4 (11132015) |
| **Project Name:** | Lafarge East Point | **Collection Date:** | 11/13/2015 1:45:00 PM |
| **Lab ID:** | 1511E17-013 | **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 | 216040 | 1 | 11/18/2015 14:04 | TA |
| **TCL VOLATILE ORGANICS SW8260B** | | | | **(SW5030B)** | | | | |
| 1,1,1-Trichloroethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 09:18 | CH |
| 1,1,2,2-Tetrachloroethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 09:18 | CH |
| 1,1,2-Trichloroethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 09:18 | CH |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 09:18 | CH |
| 1,1-Dichloroethene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 09:18 | CH |
| 1,2,4-Trichlorobenzene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 09:18 | CH |
| 1,2-Dibromo-3-chloropropane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 09:18 | CH |
| 1,2-Dibromoethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 09:18 | CH |
| 1,2-Dichlorobenzene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 09:18 | CH |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 09:18 | CH |
| 1,2-Dichloropropane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 09:18 | CH |
| 1,3-Dichlorobenzene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 09:18 | CH |
| 1,4-Dichlorobenzene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 09:18 | CH |
| 2-Butanone | BRL | 50 | | ug/L | 216126 | 1 | 11/19/2015 09:18 | CH |
| 2-Hexanone | BRL | 10 | | ug/L | 216126 | 1 | 11/19/2015 09:18 | CH |
| 4-Methyl-2-pentanone | BRL | 10 | | ug/L | 216126 | 1 | 11/19/2015 09:18 | CH |
| Acetone | BRL | 50 | | ug/L | 216126 | 1 | 11/19/2015 09:18 | CH |
| Benzene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 09:18 | CH |
| Bromodichloromethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 09:18 | CH |
| Bromoform | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 09:18 | CH |
| Bromomethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 09:18 | CH |
| Carbon disulfide | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 09:18 | CH |
| Carbon tetrachloride | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 09:18 | CH |
| Chlorobenzene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 09:18 | CH |
| Chloroethane | BRL | 10 | | ug/L | 216126 | 1 | 11/19/2015 09:18 | CH |
| Chloroform | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 09:18 | CH |
| Chloromethane | BRL | 10 | | ug/L | 216126 | 1 | 11/19/2015 09:18 | CH |
| cis-1,2-Dichloroethene | 12 | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 09:18 | CH |
| cis-1,3-Dichloropropene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 09:18 | CH |
| Cyclohexane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 09:18 | CH |
| Dibromochloromethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 09:18 | CH |
| Dichlorodifluoromethane | BRL | 10 | | ug/L | 216126 | 1 | 11/19/2015 09:18 | CH |
| Ethylbenzene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 09:18 | CH |
| Freon-113 | BRL | 10 | | ug/L | 216126 | 1 | 11/19/2015 09:18 | CH |
| Isopropylbenzene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 09:18 | CH |
| m,p-Xylene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 09:18 | CH |
| Methyl acetate | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 09:18 | CH |
| Methyl tert-butyl ether | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 09:18 | CH |

**Qualifiers:**

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike 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:** 25-Nov-15

| | | | |
|---|---|---|---|
| **Client:** | Arcadis | **Client Sample ID:** | MW-4 (11132015) |
| **Project Name:** | Lafarge East Point | **Collection Date:** | 11/13/2015 1:45:00 PM |
| **Lab ID:** | 1511E17-013 | **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 | 216126 | 1 | 11/19/2015 09:18 | CH |
| Methylene chloride | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 09:18 | CH |
| o-Xylene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 09:18 | CH |
| Styrene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 09:18 | CH |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 09:18 | CH |
| Toluene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 09:18 | CH |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 09:18 | CH |
| trans-1,3-Dichloropropene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 09:18 | CH |
| Trichloroethene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 09:18 | CH |
| Trichlorofluoromethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/19/2015 09:18 | CH |
| Vinyl chloride | 4.2 | 2.0 | | ug/L | 216126 | 1 | 11/19/2015 09:18 | CH |
| Surr: 4-Bromofluorobenzene | 95 | 70.7-125 | | %REC | 216126 | 1 | 11/19/2015 09:18 | CH |
| Surr: Dibromofluoromethane | 95.1 | 82.2-120 | | %REC | 216126 | 1 | 11/19/2015 09:18 | CH |
| Surr: Toluene-d8 | 97.9 | 81.8-120 | | %REC | 216126 | 1 | 11/19/2015 09:18 | CH |

**Qualifiers:**

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike 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:** 25-Nov-15

| | | | |
|---|---|---|---|
| **Client:** | Arcadis | **Client Sample ID:** | TRIP BLANK |
| **Project Name:** | Lafarge East Point | **Collection Date:** | 11/13/2015 |
| **Lab ID:** | 1511E17-014 | **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 | 216126 | 1 | 11/18/2015 16:22 | JE |
| 1,1,2,2-Tetrachloroethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 16:22 | JE |
| 1,1,2-Trichloroethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 16:22 | JE |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 16:22 | JE |
| 1,1-Dichloroethene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 16:22 | JE |
| 1,2,4-Trichlorobenzene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 16:22 | JE |
| 1,2-Dibromo-3-chloropropane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 16:22 | JE |
| 1,2-Dibromoethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 16:22 | JE |
| 1,2-Dichlorobenzene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 16:22 | JE |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 16:22 | JE |
| 1,2-Dichloropropane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 16:22 | JE |
| 1,3-Dichlorobenzene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 16:22 | JE |
| 1,4-Dichlorobenzene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 16:22 | JE |
| 2-Butanone | BRL | 50 | | ug/L | 216126 | 1 | 11/18/2015 16:22 | JE |
| 2-Hexanone | BRL | 10 | | ug/L | 216126 | 1 | 11/18/2015 16:22 | JE |
| 4-Methyl-2-pentanone | BRL | 10 | | ug/L | 216126 | 1 | 11/18/2015 16:22 | JE |
| Acetone | BRL | 50 | | ug/L | 216126 | 1 | 11/18/2015 16:22 | JE |
| Benzene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 16:22 | JE |
| Bromodichloromethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 16:22 | JE |
| Bromoform | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 16:22 | JE |
| Bromomethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 16:22 | JE |
| Carbon disulfide | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 16:22 | JE |
| Carbon tetrachloride | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 16:22 | JE |
| Chlorobenzene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 16:22 | JE |
| Chloroethane | BRL | 10 | | ug/L | 216126 | 1 | 11/18/2015 16:22 | JE |
| Chloroform | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 16:22 | JE |
| Chloromethane | BRL | 10 | | ug/L | 216126 | 1 | 11/18/2015 16:22 | JE |
| cis-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 16:22 | JE |
| cis-1,3-Dichloropropene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 16:22 | JE |
| Cyclohexane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 16:22 | JE |
| Dibromochloromethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 16:22 | JE |
| Dichlorodifluoromethane | BRL | 10 | | ug/L | 216126 | 1 | 11/18/2015 16:22 | JE |
| Ethylbenzene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 16:22 | JE |
| Freon-113 | BRL | 10 | | ug/L | 216126 | 1 | 11/18/2015 16:22 | JE |
| Isopropylbenzene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 16:22 | JE |
| m,p-Xylene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 16:22 | JE |
| Methyl acetate | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 16:22 | JE |
| Methyl tert-butyl ether | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 16:22 | JE |
| Methylcyclohexane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 16:22 | JE |
| Methylene chloride | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 16:22 | JE |
| o-Xylene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 16:22 | 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:** 25-Nov-15

| | | | |
|---|---|---|---|
| **Client:** | Arcadis | **Client Sample ID:** | TRIP BLANK |
| **Project Name:** | Lafarge East Point | **Collection Date:** | 11/13/2015 |
| **Lab ID:** | 1511E17-014 | **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 | 216126 | 1 | 11/18/2015 16:22 | JE |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 16:22 | JE |
| Toluene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 16:22 | JE |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 16:22 | JE |
| trans-1,3-Dichloropropene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 16:22 | JE |
| Trichloroethene | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 16:22 | JE |
| Trichlorofluoromethane | BRL | 5.0 | | ug/L | 216126 | 1 | 11/18/2015 16:22 | JE |
| Vinyl chloride | BRL | 2.0 | | ug/L | 216126 | 1 | 11/18/2015 16:22 | JE |
| Surr: 4-Bromofluorobenzene | 96.8 | 70.7-125 | | %REC | 216126 | 1 | 11/18/2015 16:22 | JE |
| Surr: Dibromofluoromethane | 97.8 | 82.2-120 | | %REC | 216126 | 1 | 11/18/2015 16:22 | JE |
| Surr: Toluene-d8 | 97.9 | 81.8-120 | | %REC | 216126 | 1 | 11/18/2015 16:22 | JE |

**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 1511E17

Checklist completed by [signature] 11-13-15
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 4.1°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 CS

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.

\\Aes_server\l\Sample Receipt\My Documents\COCs and pH Adjustment Sheet\Sample_Cooler_Recipt_Checklist_Rev1.rtf

**Client:** Arcadis
**Project Name:** Lafarge East Point
**Workorder:** 1511E17

# ANALYTICAL QC SUMMARY REPORT

**BatchID: 216040**

| Sample ID: **MB-216040** | Client ID: | | | Units: **mg/L** | Prep Date: **11/17/2015** | Run No: **304701** |
|---|---|---|---|---|---|---|
| SampleType: **MBLK** | TestCode: **Total Metals by ICP E200.7** | | | BatchID: **216040** | Analysis Date: **11/18/2015** | Seq No: **6525282** |

| 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-216040** | Client ID: | | | Units: **mg/L** | Prep Date: **11/17/2015** | Run No: **304701** |
|---|---|---|---|---|---|---|
| SampleType: **LCS** | TestCode: **Total Metals by ICP E200.7** | | | BatchID: **216040** | Analysis Date: **11/18/2015** | Seq No: **6525283** |

| Analyte | Result | RPT Limit | SPK value | SPK Ref Val | %REC | Low Limit | High Limit | RPD Ref Val | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lead | 1.016 | 0.0100 | 1.000 | | 102 | 85 | 115 | | | | |

| Sample ID: **1511E17-011BMS** | Client ID: **MW-3 (11132015)** | | | Units: **mg/L** | Prep Date: **11/17/2015** | Run No: **304701** |
|---|---|---|---|---|---|---|
| SampleType: **MS** | TestCode: **Total Metals by ICP E200.7** | | | BatchID: **216040** | Analysis Date: **11/18/2015** | Seq No: **6525298** |

| Analyte | Result | RPT Limit | SPK value | SPK Ref Val | %REC | Low Limit | High Limit | RPD Ref Val | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lead | 0.9887 | 0.0100 | 1.000 | | 98.9 | 70 | 130 | | | | |

| Sample ID: **1511E52-001AMS** | Client ID: | | | Units: **mg/L** | Prep Date: **11/17/2015** | Run No: **304701** |
|---|---|---|---|---|---|---|
| SampleType: **MS** | TestCode: **Total Metals by ICP E200.7** | | | BatchID: **216040** | Analysis Date: **11/18/2015** | Seq No: **6525285** |

| Analyte | Result | RPT Limit | SPK value | SPK Ref Val | %REC | Low Limit | High Limit | RPD Ref Val | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lead | 0.9882 | 0.0100 | 1.000 | | 98.8 | 70 | 130 | | | | |

| Sample ID: **1511E52-001AMSD** | Client ID: | | | Units: **mg/L** | Prep Date: **11/17/2015** | Run No: **304701** |
|---|---|---|---|---|---|---|
| SampleType: **MSD** | TestCode: **Total Metals by ICP E200.7** | | | BatchID: **216040** | Analysis Date: **11/18/2015** | Seq No: **6525286** |

| 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 | 70 | 130 | 0.9882 | 0.765 | 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:** 1511E17

# ANALYTICAL QC SUMMARY REPORT

**BatchID: 216126**

Sample ID: **MB-216126** Client ID: Units: **ug/L** Prep Date: **11/18/2015** Run No: **304708**
SampleType: **MBLK** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **216126** Analysis Date: **11/18/2015** Seq No: **6525221**

| 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:** 1511E17

# ANALYTICAL QC SUMMARY REPORT

**BatchID: 216126**

Sample ID: **MB-216126** Client ID:
SampleType: **MBLK** TestCode: **TCL VOLATILE ORGANICS SW8260B**
Units: **ug/L** Prep Date: **11/18/2015** Run No: **304708**
BatchID: **216126** Analysis Date: **11/18/2015** Seq No: **6525221**

| 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 | 47.30 | 0 | 50.00 | | 94.6 | 70.7 | 125 | | | | |
| Surr: Dibromofluoromethane | 49.03 | 0 | 50.00 | | 98.1 | 82.2 | 120 | | | | |
| Surr: Toluene-d8 | 48.84 | 0 | 50.00 | | 97.7 | 81.8 | 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:** 1511E17

# ANALYTICAL QC SUMMARY REPORT

**BatchID: 216126**

Sample ID: **LCS-216126** Client ID: Units: **ug/L** Prep Date: **11/18/2015** Run No: **304708**
SampleType: **LCS** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **216126** Analysis Date: **11/18/2015** Seq No: **6525229**

| Analyte | Result | RPT Limit | SPK value | SPK Ref Val | %REC | Low Limit | High Limit | RPD Ref Val | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 22.47 | 5.0 | 25.00 | | 89.9 | 64.2 | 137 | | | | |
| Benzene | 20.69 | 5.0 | 25.00 | | 82.8 | 72.8 | 128 | | | | |
| Chlorobenzene | 19.85 | 5.0 | 25.00 | | 79.4 | 72.3 | 126 | | | | |
| Toluene | 20.72 | 5.0 | 25.00 | | 82.9 | 74.9 | 127 | | | | |
| Trichloroethene | 21.15 | 5.0 | 25.00 | | 84.6 | 70.5 | 134 | | | | |
| Surr: 4-Bromofluorobenzene | 48.24 | 0 | 50.00 | | 96.5 | 70.7 | 125 | | | | |
| Surr: Dibromofluoromethane | 48.24 | 0 | 50.00 | | 96.5 | 82.2 | 120 | | | | |
| Surr: Toluene-d8 | 49.12 | 0 | 50.00 | | 98.2 | 81.8 | 120 | | | | |

Sample ID: **1511D43-003AMS** Client ID: Units: **ug/L** Prep Date: **11/18/2015** Run No: **304708**
SampleType: **MS** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **216126** Analysis Date: **11/18/2015** Seq No: **6527100**

| Analyte | Result | RPT Limit | SPK value | SPK Ref Val | %REC | Low Limit | High Limit | RPD Ref Val | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 63.52 | 5.0 | 50.00 | | 127 | 60.5 | 156 | | | | |
| Benzene | 56.75 | 5.0 | 50.00 | | 114 | 70 | 135 | | | | |
| Chlorobenzene | 55.31 | 5.0 | 50.00 | | 111 | 70.5 | 132 | | | | |
| Toluene | 58.26 | 5.0 | 50.00 | | 117 | 70.5 | 137 | | | | |
| Trichloroethene | 57.83 | 5.0 | 50.00 | | 116 | 71.8 | 139 | | | | |
| Surr: 4-Bromofluorobenzene | 46.65 | 0 | 50.00 | | 93.3 | 70.7 | 125 | | | | |
| Surr: Dibromofluoromethane | 48.72 | 0 | 50.00 | | 97.4 | 82.2 | 120 | | | | |
| Surr: Toluene-d8 | 47.63 | 0 | 50.00 | | 95.3 | 81.8 | 120 | | | | |

Sample ID: **1511D43-003AMSD** Client ID: Units: **ug/L** Prep Date: **11/18/2015** Run No: **304708**
SampleType: **MSD** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **216126** Analysis Date: **11/18/2015** Seq No: **6527101**

| Analyte | Result | RPT Limit | SPK value | SPK Ref Val | %REC | Low Limit | High Limit | RPD Ref Val | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 64.20 | 5.0 | 50.00 | | 128 | 60.5 | 156 | 63.52 | 1.06 | 20 | |
| Benzene | 59.58 | 5.0 | 50.00 | | 119 | 70 | 135 | 56.75 | 4.87 | 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:** 1511E17

# ANALYTICAL QC SUMMARY REPORT

**BatchID: 216126**

Sample ID: **1511D43-003AMSD** Client ID:
SampleType: **MSD** TestCode: **TCL VOLATILE ORGANICS SW8260B**
Units: **ug/L** Prep Date: **11/18/2015** Run No: **304708**
BatchID: **216126** Analysis Date: **11/18/2015** Seq No: **6527101**

| Analyte | Result | RPT Limit | SPK value | SPK Ref Val | %REC | Low Limit | High Limit | RPD Ref Val | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chlorobenzene | 55.36 | 5.0 | 50.00 | | 111 | 70.5 | 132 | 55.31 | 0.090 | 20 | |
| Toluene | 60.67 | 5.0 | 50.00 | | 121 | 70.5 | 137 | 58.26 | 4.05 | 20 | |
| Trichloroethene | 58.17 | 5.0 | 50.00 | | 116 | 71.8 | 139 | 57.83 | 0.586 | 20 | |
| Surr: 4-Bromofluorobenzene | 47.62 | 0 | 50.00 | | 95.2 | 70.7 | 125 | 46.65 | 0 | 0 | |
| Surr: Dibromofluoromethane | 48.17 | 0 | 50.00 | | 96.3 | 82.2 | 120 | 48.72 | 0 | 0 | |
| Surr: Toluene-d8 | 50.73 | 0 | 50.00 | | 101 | 81.8 | 120 | 47.63 | 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 | | |

AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

December 02, 2015

Chris Miller
Arcadis
1000 Cobb Place Blvd., Bldg. 500-A
Kennesaw GA 30144

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

RE: Lafarge East Point

Dear Chris Miller: Order No: 1511H11

Analytical Environmental Services, Inc. received 21 samples on 11/18/2015 2:15:00 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 07/01/15-06/30/16.
-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 09/01/17.

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.

CRKanhai

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: 157411

Date: 11-18-15 Page 1 of 2

COMPANY: Arcadis

ADDRESS: 1000 Cobb Place Blvd Bldg 500-A Kennesaw, GA 30144

PHONE: (770) 428-9004

FAX:

SAMPLED BY: Mark Myers

SIGNATURE:

| # | SAMPLE ID | SAMPLED DATE | SAMPLED TIME | Grab | Composite | Matrix (See codes) | PRESERVATION (See codes) H+I | N | ANALYSIS REQUESTED VOCs | Metals | REMARKS | No # of Containers |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | MW-35 (11162015) | 11-16 | 1045 | X | | GW | 2 | | | | | 2 |
| 2 | MW-34 (11162015) | 11-16 | 1130 | X | | GW | 2 | | | | | 2 |
| 3 | MW-26 (11162015) | 11-16 | 1300 | X | | GW | 2 | | | | | 2 |
| 4 | MW-27 (11162015) | 11-16 | 1340 | X | | GW | 2 | | | | | 2 |
| 5 | DUP-01 (11162015) | 11-16 | | X | | GW | 2 | | | | | 2 |
| 6 | MW-33 (11162015) | 11-16 | 1430 | X | | GW | 2 | | | | | 2 |
| 7 | DUP-02 (11162015) | 11-16 | | X | | GW | 2 | | | | | 2 |
| 8 | MW-8 (11162015) | 11-16 | 1550 | X | | GW | 2 | | | | | 2 |
| 9 | MW-21 (11162015) | 11-16 | 1630 | X | | GW | 2 | | | | | 2 |
| 10 | RW-2 (11172015) | 11-17-15 | 1205 | X | | GW | 2 | | | | | 2 |
| 11 | RW-8 (11172015) | 11-17-15 | 1030 | X | | GW | 2 | | | | | 2 |
| 12 | RW-7 (11172015) | 11-17-15 | 1055 | X | | GW | 2 | | | | | 2 |
| 13 | RW-6 (11172015) | 11-17-15 | 1109 | X | | GW | 2 | | | | | 2 |
| 14 | MW-32 (11172015) | 11-17-15 | 1200 | X | | GW | 2 | | | | | 2 |

**Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.**

| RELINQUISHED BY | DATE/TIME | RECEIVED BY | DATE/TIME |
|---|---|---|---|
| 1: Mark Myers | 11-18-15 11-16-15 1045 | 1: [signature] | 11.18.15/10:46 |
| 2: [signature] 11.18.15 12:15 | | 2: Nadia Cole | 11/18/15 2:15 |
| 3: | | 3: | |

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD
OUT / / VIA:
IN / / VIA:
WC 11/18/15 CLIENT FedEx UPS MAIL COURIER GREYHOUND OTHER

PROJECT INFORMATION
PROJECT NAME: Lafarge East Point
PROJECT #: HT212516
SITE ADDRESS: RTA - Martin St., East Point, GA
SEND REPORT TO: Chris Miller
INVOICE TO: (IF DIFFERENT FROM ABOVE)
QUOTE #: PO#:

RECEIPT
Total # of Containers: 28

Turnaround Time Request
- [x] 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

# 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: 1571411

Date: 11-18-15 Page 2 of 2

COMPANY: Arcadis

ADDRESS: 1000 Cobb Place Blvd Bldg 500 N Kennesaw, GA 30144

PHONE: (770) 428-9005

FAX:

SAMPLED BY: Mark Myers

SIGNATURE:

| # | SAMPLE ID | SAMPLED DATE | SAMPLED TIME | Grab | Composite | Matrix (See codes) | PRESERVATION (See codes) HCl | VOCs | No # of Containers | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | RW-3 (11172015) | 11-17-15 | 1420 | X | | GW | 2 | | 2 | |
| 2 | MW-7 (11172015) | 11-17-15 | 1245 | X | | GW | 2 | | 2 | |
| 3 | MW-14 (11172015) | 11-17-15 | 1515 | X | | GW | 2 | | 2 | |
| 4 | DUP-03 (11172015) | 11-17-15 | — | X | | GW | 2 | | 2 | |
| 5 | MW-19 (11172015) | 11-17-15 | 1600 | X | | GW | 2 | | 2 | |
| 6 | MW-36 (11172015) | 11-17-15 | 1605 | X | | GW | 2 | | 2 | |
| 7 | Trip Blank (11182015) | 11-18-15 | | X | | W | 12 | | 1 | |
| 8 | | | | | | | | | | |
| 9 | | | | | | | | | | |
| 10 | | | | | | | | | | |
| 11 | | | | | | | | | | |
| 12 | | | | | | | | | | |
| 13 | | | | | | | | | | |
| 14 | | | | | | | | | | |

ANALYSIS REQUESTED

**Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.**

RELINQUISHED BY / DATE/TIME

1: Mark Myers 11-18-15/1045

2: K Kuehl 11.18.15/2:15

3:

RECEIVED BY / DATE/TIME

1: K Kuehl 11.18.15/10:46

2: Nadia Cyske 11/18/15 2:15

3:

PROJECT INFORMATION

PROJECT NAME: Lafarge ED

PROJECT #: HTZ12516

SITE ADDRESS: RW Martin St East Point, GA

SEND REPORT TO: HTZ12516

INVOICE TO: (IF DIFFERENT FROM ABOVE)

QUOTE #: PO#:

RECEIPT

Total # of Containers: 13 14

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

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD

OUT / / VIA:

IN / / VIA:

CLIENT FedEx UPS MAIL (COURIER)

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



White Copy - Original; Yellow Copy - Client

## Analytical Environmental Services, Inc

**Date:** 2-Dec-15

**Client:** Arcadis
**Project:** Lafarge East Point
**Lab ID:** 1511H11

# Case Narrative

Volatiles Organic Compounds Analysis by Method 8260B:

Due to sample matrix, samples 1511H11-014 and -020 required dilution during preparation and/or analysis resulting in elevated reporting limits.

**Analytical Environmental Services, Inc** **Date:** 2-Dec-15

| | | | |
|---|---|---|---|
| **Client:** | Arcadis | **Client Sample ID:** | MW-35 (11162015) |
| **Project Name:** | Lafarge East Point | **Collection Date:** | 11/16/2015 10:45:00 AM |
| **Lab ID:** | 1511H11-001 | **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 | 216288 | 1 | 11/25/2015 00:54 | CH |
| 1,1,2,2-Tetrachloroethane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/25/2015 00:54 | CH |
| 1,1,2-Trichloroethane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/25/2015 00:54 | CH |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/25/2015 00:54 | CH |
| 1,1-Dichloroethene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/25/2015 00:54 | CH |
| 1,2,4-Trichlorobenzene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/25/2015 00:54 | CH |
| 1,2-Dibromo-3-chloropropane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/25/2015 00:54 | CH |
| 1,2-Dibromoethane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/25/2015 00:54 | CH |
| 1,2-Dichlorobenzene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/25/2015 00:54 | CH |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/25/2015 00:54 | CH |
| 1,2-Dichloropropane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/25/2015 00:54 | CH |
| 1,3-Dichlorobenzene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/25/2015 00:54 | CH |
| 1,4-Dichlorobenzene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/25/2015 00:54 | CH |
| 2-Butanone | BRL | 50 | | ug/L | 216288 | 1 | 11/25/2015 00:54 | CH |
| 2-Hexanone | BRL | 10 | | ug/L | 216288 | 1 | 11/25/2015 00:54 | CH |
| 4-Methyl-2-pentanone | BRL | 10 | | ug/L | 216288 | 1 | 11/25/2015 00:54 | CH |
| Acetone | BRL | 50 | | ug/L | 216288 | 1 | 11/25/2015 00:54 | CH |
| Benzene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/25/2015 00:54 | CH |
| Bromodichloromethane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/25/2015 00:54 | CH |
| Bromoform | BRL | 5.0 | | ug/L | 216288 | 1 | 11/25/2015 00:54 | CH |
| Bromomethane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/25/2015 00:54 | CH |
| Carbon disulfide | BRL | 5.0 | | ug/L | 216288 | 1 | 11/25/2015 00:54 | CH |
| Carbon tetrachloride | BRL | 5.0 | | ug/L | 216288 | 1 | 11/25/2015 00:54 | CH |
| Chlorobenzene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/25/2015 00:54 | CH |
| Chloroethane | BRL | 10 | | ug/L | 216288 | 1 | 11/25/2015 00:54 | CH |
| Chloroform | BRL | 5.0 | | ug/L | 216288 | 1 | 11/25/2015 00:54 | CH |
| Chloromethane | BRL | 10 | | ug/L | 216288 | 1 | 11/25/2015 00:54 | CH |
| cis-1,2-Dichloroethene | 110 | 5.0 | | ug/L | 216288 | 1 | 11/25/2015 00:54 | CH |
| cis-1,3-Dichloropropene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/25/2015 00:54 | CH |
| Cyclohexane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/25/2015 00:54 | CH |
| Dibromochloromethane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/25/2015 00:54 | CH |
| Dichlorodifluoromethane | BRL | 10 | | ug/L | 216288 | 1 | 11/25/2015 00:54 | CH |
| Ethylbenzene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/25/2015 00:54 | CH |
| Freon-113 | BRL | 10 | | ug/L | 216288 | 1 | 11/25/2015 00:54 | CH |
| Isopropylbenzene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/25/2015 00:54 | CH |
| m,p-Xylene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/25/2015 00:54 | CH |
| Methyl acetate | BRL | 5.0 | | ug/L | 216288 | 1 | 11/25/2015 00:54 | CH |
| Methyl tert-butyl ether | BRL | 5.0 | | ug/L | 216288 | 1 | 11/25/2015 00:54 | CH |
| Methylcyclohexane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/25/2015 00:54 | CH |
| Methylene chloride | BRL | 5.0 | | ug/L | 216288 | 1 | 11/25/2015 00:54 | CH |
| o-Xylene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/25/2015 00:54 | CH |

**Qualifiers:**

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike 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-15

| | | | |
|---|---|---|---|
| **Client:** | Arcadis | **Client Sample ID:** | MW-35 (11162015) |
| **Project Name:** | Lafarge East Point | **Collection Date:** | 11/16/2015 10:45:00 AM |
| **Lab ID:** | 1511H11-001 | **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 | 216288 | 1 | 11/25/2015 00:54 | CH |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/25/2015 00:54 | CH |
| Toluene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/25/2015 00:54 | CH |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/25/2015 00:54 | CH |
| trans-1,3-Dichloropropene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/25/2015 00:54 | CH |
| Trichloroethene | 760 | 250 | | ug/L | 216288 | 50 | 11/20/2015 20:54 | CH |
| Trichlorofluoromethane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/25/2015 00:54 | CH |
| Vinyl chloride | BRL | 2.0 | | ug/L | 216288 | 1 | 11/25/2015 00:54 | CH |
| Surr: 4-Bromofluorobenzene | 97.1 | 70.7-125 | | %REC | 216288 | 50 | 11/20/2015 20:54 | CH |
| Surr: 4-Bromofluorobenzene | 87.5 | 70.7-125 | | %REC | 216288 | 1 | 11/25/2015 00:54 | CH |
| Surr: Dibromofluoromethane | 93.5 | 82.2-120 | | %REC | 216288 | 50 | 11/20/2015 20:54 | CH |
| Surr: Dibromofluoromethane | 95.4 | 82.2-120 | | %REC | 216288 | 1 | 11/25/2015 00:54 | CH |
| Surr: Toluene-d8 | 97.9 | 81.8-120 | | %REC | 216288 | 50 | 11/20/2015 20:54 | CH |
| Surr: Toluene-d8 | 104 | 81.8-120 | | %REC | 216288 | 1 | 11/25/2015 00:54 | CH |

**Qualifiers:**

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
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- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike 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-15

| | | | |
|---|---|---|---|
| **Client:** | Arcadis | **Client Sample ID:** | MW-34 (11162015) |
| **Project Name:** | Lafarge East Point | **Collection Date:** | 11/16/2015 11:30:00 AM |
| **Lab ID:** | 1511H11-002 | **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 | 216288 | 1 | 11/20/2015 21:19 | CH |
| 1,1,2,2-Tetrachloroethane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/20/2015 21:19 | CH |
| 1,1,2-Trichloroethane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/20/2015 21:19 | CH |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/20/2015 21:19 | CH |
| 1,1-Dichloroethene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/20/2015 21:19 | CH |
| 1,2,4-Trichlorobenzene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/20/2015 21:19 | CH |
| 1,2-Dibromo-3-chloropropane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/20/2015 21:19 | CH |
| 1,2-Dibromoethane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/20/2015 21:19 | CH |
| 1,2-Dichlorobenzene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/20/2015 21:19 | CH |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/20/2015 21:19 | CH |
| 1,2-Dichloropropane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/20/2015 21:19 | CH |
| 1,3-Dichlorobenzene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/20/2015 21:19 | CH |
| 1,4-Dichlorobenzene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/20/2015 21:19 | CH |
| 2-Butanone | BRL | 50 | | ug/L | 216288 | 1 | 11/20/2015 21:19 | CH |
| 2-Hexanone | BRL | 10 | | ug/L | 216288 | 1 | 11/20/2015 21:19 | CH |
| 4-Methyl-2-pentanone | BRL | 10 | | ug/L | 216288 | 1 | 11/20/2015 21:19 | CH |
| Acetone | BRL | 50 | | ug/L | 216288 | 1 | 11/20/2015 21:19 | CH |
| Benzene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/20/2015 21:19 | CH |
| Bromodichloromethane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/20/2015 21:19 | CH |
| Bromoform | BRL | 5.0 | | ug/L | 216288 | 1 | 11/20/2015 21:19 | CH |
| Bromomethane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/20/2015 21:19 | CH |
| Carbon disulfide | BRL | 5.0 | | ug/L | 216288 | 1 | 11/20/2015 21:19 | CH |
| Carbon tetrachloride | BRL | 5.0 | | ug/L | 216288 | 1 | 11/20/2015 21:19 | CH |
| Chlorobenzene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/20/2015 21:19 | CH |
| Chloroethane | BRL | 10 | | ug/L | 216288 | 1 | 11/20/2015 21:19 | CH |
| Chloroform | BRL | 5.0 | | ug/L | 216288 | 1 | 11/20/2015 21:19 | CH |
| Chloromethane | BRL | 10 | | ug/L | 216288 | 1 | 11/20/2015 21:19 | CH |
| cis-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/20/2015 21:19 | CH |
| cis-1,3-Dichloropropene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/20/2015 21:19 | CH |
| Cyclohexane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/20/2015 21:19 | CH |
| Dibromochloromethane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/20/2015 21:19 | CH |
| Dichlorodifluoromethane | BRL | 10 | | ug/L | 216288 | 1 | 11/20/2015 21:19 | CH |
| Ethylbenzene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/20/2015 21:19 | CH |
| Freon-113 | BRL | 10 | | ug/L | 216288 | 1 | 11/20/2015 21:19 | CH |
| Isopropylbenzene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/20/2015 21:19 | CH |
| m,p-Xylene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/20/2015 21:19 | CH |
| Methyl acetate | BRL | 5.0 | | ug/L | 216288 | 1 | 11/20/2015 21:19 | CH |
| Methyl tert-butyl ether | BRL | 5.0 | | ug/L | 216288 | 1 | 11/20/2015 21:19 | CH |
| Methylcyclohexane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/20/2015 21:19 | CH |
| Methylene chloride | BRL | 5.0 | | ug/L | 216288 | 1 | 11/20/2015 21:19 | CH |
| o-Xylene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/20/2015 21:19 | CH |

**Qualifiers:**

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike 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-15

| | | | |
|---|---|---|---|
| **Client:** | Arcadis | **Client Sample ID:** | MW-34 (11162015) |
| **Project Name:** | Lafarge East Point | **Collection Date:** | 11/16/2015 11:30:00 AM |
| **Lab ID:** | 1511H11-002 | **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 | 216288 | 1 | 11/20/2015 21:19 | CH |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/20/2015 21:19 | CH |
| Toluene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/20/2015 21:19 | CH |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/20/2015 21:19 | CH |
| trans-1,3-Dichloropropene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/20/2015 21:19 | CH |
| Trichloroethene | 94 | 5.0 | | ug/L | 216288 | 1 | 11/20/2015 21:19 | CH |
| Trichlorofluoromethane | 5.4 | 5.0 | | ug/L | 216288 | 1 | 11/20/2015 21:19 | CH |
| Vinyl chloride | BRL | 2.0 | | ug/L | 216288 | 1 | 11/20/2015 21:19 | CH |
| Surr: 4-Bromofluorobenzene | 96.7 | 70.7-125 | | %REC | 216288 | 1 | 11/20/2015 21:19 | CH |
| Surr: Dibromofluoromethane | 97.5 | 82.2-120 | | %REC | 216288 | 1 | 11/20/2015 21:19 | CH |
| Surr: Toluene-d8 | 101 | 81.8-120 | | %REC | 216288 | 1 | 11/20/2015 21:19 | CH |

**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:** 2-Dec-15

| | | | |
|---|---|---|---|
| **Client:** | Arcadis | **Client Sample ID:** | MW-26 (11162015) |
| **Project Name:** | Lafarge East Point | **Collection Date:** | 11/16/2015 1:00:00 PM |
| **Lab ID:** | 1511H11-003 | **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 | 216288 | 1 | 11/23/2015 22:23 | CH |
| 1,1,2,2-Tetrachloroethane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 22:23 | CH |
| 1,1,2-Trichloroethane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 22:23 | CH |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 22:23 | CH |
| 1,1-Dichloroethene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 22:23 | CH |
| 1,2,4-Trichlorobenzene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 22:23 | CH |
| 1,2-Dibromo-3-chloropropane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 22:23 | CH |
| 1,2-Dibromoethane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 22:23 | CH |
| 1,2-Dichlorobenzene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 22:23 | CH |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 22:23 | CH |
| 1,2-Dichloropropane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 22:23 | CH |
| 1,3-Dichlorobenzene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 22:23 | CH |
| 1,4-Dichlorobenzene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 22:23 | CH |
| 2-Butanone | BRL | 50 | | ug/L | 216288 | 1 | 11/23/2015 22:23 | CH |
| 2-Hexanone | BRL | 10 | | ug/L | 216288 | 1 | 11/23/2015 22:23 | CH |
| 4-Methyl-2-pentanone | BRL | 10 | | ug/L | 216288 | 1 | 11/23/2015 22:23 | CH |
| Acetone | BRL | 50 | | ug/L | 216288 | 1 | 11/23/2015 22:23 | CH |
| Benzene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 22:23 | CH |
| Bromodichloromethane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 22:23 | CH |
| Bromoform | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 22:23 | CH |
| Bromomethane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 22:23 | CH |
| Carbon disulfide | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 22:23 | CH |
| Carbon tetrachloride | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 22:23 | CH |
| Chlorobenzene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 22:23 | CH |
| Chloroethane | BRL | 10 | | ug/L | 216288 | 1 | 11/23/2015 22:23 | CH |
| Chloroform | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 22:23 | CH |
| Chloromethane | BRL | 10 | | ug/L | 216288 | 1 | 11/23/2015 22:23 | CH |
| cis-1,2-Dichloroethene | 42 | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 22:23 | CH |
| cis-1,3-Dichloropropene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 22:23 | CH |
| Cyclohexane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 22:23 | CH |
| Dibromochloromethane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 22:23 | CH |
| Dichlorodifluoromethane | BRL | 10 | | ug/L | 216288 | 1 | 11/23/2015 22:23 | CH |
| Ethylbenzene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 22:23 | CH |
| Freon-113 | BRL | 10 | | ug/L | 216288 | 1 | 11/23/2015 22:23 | CH |
| Isopropylbenzene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 22:23 | CH |
| m,p-Xylene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 22:23 | CH |
| Methyl acetate | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 22:23 | CH |
| Methyl tert-butyl ether | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 22:23 | CH |
| Methylcyclohexane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 22:23 | CH |
| Methylene chloride | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 22:23 | CH |
| o-Xylene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 22:23 | CH |

**Qualifiers:**

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike 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-15

| | | | |
|---|---|---|---|
| **Client:** | Arcadis | **Client Sample ID:** | MW-26 (11162015) |
| **Project Name:** | Lafarge East Point | **Collection Date:** | 11/16/2015 1:00:00 PM |
| **Lab ID:** | 1511H11-003 | **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 | 216288 | 1 | 11/23/2015 22:23 | CH |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 22:23 | CH |
| Toluene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 22:23 | CH |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 22:23 | CH |
| trans-1,3-Dichloropropene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 22:23 | CH |
| Trichloroethene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 22:23 | CH |
| Trichlorofluoromethane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 22:23 | CH |
| Vinyl chloride | BRL | 2.0 | | ug/L | 216288 | 1 | 11/23/2015 22:23 | CH |
| Surr: 4-Bromofluorobenzene | 90.3 | 70.7-125 | | %REC | 216288 | 1 | 11/23/2015 22:23 | CH |
| Surr: Dibromofluoromethane | 92.7 | 82.2-120 | | %REC | 216288 | 1 | 11/23/2015 22:23 | CH |
| Surr: Toluene-d8 | 101 | 81.8-120 | | %REC | 216288 | 1 | 11/23/2015 22:23 | CH |

**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:** 2-Dec-15

| | | | |
|---|---|---|---|
| **Client:** | Arcadis | **Client Sample ID:** | MW-27 (11162015) |
| **Project Name:** | Lafarge East Point | **Collection Date:** | 11/16/2015 1:40:00 PM |
| **Lab ID:** | 1511H11-004 | **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 | 216288 | 1 | 11/20/2015 22:11 | CH |
| 1,1,2,2-Tetrachloroethane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/20/2015 22:11 | CH |
| 1,1,2-Trichloroethane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/20/2015 22:11 | CH |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/20/2015 22:11 | CH |
| 1,1-Dichloroethene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/20/2015 22:11 | CH |
| 1,2,4-Trichlorobenzene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/20/2015 22:11 | CH |
| 1,2-Dibromo-3-chloropropane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/20/2015 22:11 | CH |
| 1,2-Dibromoethane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/20/2015 22:11 | CH |
| 1,2-Dichlorobenzene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/20/2015 22:11 | CH |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/20/2015 22:11 | CH |
| 1,2-Dichloropropane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/20/2015 22:11 | CH |
| 1,3-Dichlorobenzene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/20/2015 22:11 | CH |
| 1,4-Dichlorobenzene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/20/2015 22:11 | CH |
| 2-Butanone | BRL | 50 | | ug/L | 216288 | 1 | 11/20/2015 22:11 | CH |
| 2-Hexanone | BRL | 10 | | ug/L | 216288 | 1 | 11/20/2015 22:11 | CH |
| 4-Methyl-2-pentanone | BRL | 10 | | ug/L | 216288 | 1 | 11/20/2015 22:11 | CH |
| Acetone | BRL | 50 | | ug/L | 216288 | 1 | 11/20/2015 22:11 | CH |
| Benzene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/20/2015 22:11 | CH |
| Bromodichloromethane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/20/2015 22:11 | CH |
| Bromoform | BRL | 5.0 | | ug/L | 216288 | 1 | 11/20/2015 22:11 | CH |
| Bromomethane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/20/2015 22:11 | CH |
| Carbon disulfide | BRL | 5.0 | | ug/L | 216288 | 1 | 11/20/2015 22:11 | CH |
| Carbon tetrachloride | BRL | 5.0 | | ug/L | 216288 | 1 | 11/20/2015 22:11 | CH |
| Chlorobenzene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/20/2015 22:11 | CH |
| Chloroethane | BRL | 10 | | ug/L | 216288 | 1 | 11/20/2015 22:11 | CH |
| Chloroform | BRL | 5.0 | | ug/L | 216288 | 1 | 11/20/2015 22:11 | CH |
| Chloromethane | BRL | 10 | | ug/L | 216288 | 1 | 11/20/2015 22:11 | CH |
| cis-1,2-Dichloroethene | 630 | 50 | | ug/L | 216288 | 10 | 11/20/2015 22:37 | CH |
| cis-1,3-Dichloropropene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/20/2015 22:11 | CH |
| Cyclohexane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/20/2015 22:11 | CH |
| Dibromochloromethane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/20/2015 22:11 | CH |
| Dichlorodifluoromethane | BRL | 10 | | ug/L | 216288 | 1 | 11/20/2015 22:11 | CH |
| Ethylbenzene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/20/2015 22:11 | CH |
| Freon-113 | BRL | 10 | | ug/L | 216288 | 1 | 11/20/2015 22:11 | CH |
| Isopropylbenzene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/20/2015 22:11 | CH |
| m,p-Xylene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/20/2015 22:11 | CH |
| Methyl acetate | BRL | 5.0 | | ug/L | 216288 | 1 | 11/20/2015 22:11 | CH |
| Methyl tert-butyl ether | BRL | 5.0 | | ug/L | 216288 | 1 | 11/20/2015 22:11 | CH |
| Methylcyclohexane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/20/2015 22:11 | CH |
| Methylene chloride | BRL | 5.0 | | ug/L | 216288 | 1 | 11/20/2015 22:11 | CH |
| o-Xylene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/20/2015 22:11 | CH |

**Qualifiers:**

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike 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-15

| | | | |
|---|---|---|---|
| **Client:** | Arcadis | **Client Sample ID:** | MW-27 (11162015) |
| **Project Name:** | Lafarge East Point | **Collection Date:** | 11/16/2015 1:40:00 PM |
| **Lab ID:** | 1511H11-004 | **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 | 216288 | 1 | 11/20/2015 22:11 | CH |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/20/2015 22:11 | CH |
| Toluene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/20/2015 22:11 | CH |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/20/2015 22:11 | CH |
| trans-1,3-Dichloropropene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/20/2015 22:11 | CH |
| Trichloroethene | 23 | 5.0 | | ug/L | 216288 | 1 | 11/20/2015 22:11 | CH |
| Trichlorofluoromethane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/20/2015 22:11 | CH |
| Vinyl chloride | BRL | 2.0 | | ug/L | 216288 | 1 | 11/20/2015 22:11 | CH |
| Surr: 4-Bromofluorobenzene | 93.9 | 70.7-125 | | %REC | 216288 | 1 | 11/20/2015 22:11 | CH |
| Surr: 4-Bromofluorobenzene | 93.4 | 70.7-125 | | %REC | 216288 | 10 | 11/20/2015 22:37 | CH |
| Surr: Dibromofluoromethane | 94.8 | 82.2-120 | | %REC | 216288 | 10 | 11/20/2015 22:37 | CH |
| Surr: Dibromofluoromethane | 97.3 | 82.2-120 | | %REC | 216288 | 1 | 11/20/2015 22:11 | CH |
| Surr: Toluene-d8 | 99.7 | 81.8-120 | | %REC | 216288 | 1 | 11/20/2015 22:11 | CH |
| Surr: Toluene-d8 | 100 | 81.8-120 | | %REC | 216288 | 10 | 11/20/2015 22:37 | CH |

**Qualifiers:**

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike 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-15

| | | | |
|---|---|---|---|
| **Client:** | Arcadis | **Client Sample ID:** | DUP-01 (11162015) |
| **Project Name:** | Lafarge East Point | **Collection Date:** | 11/16/2015 |
| **Lab ID:** | 1511H11-005 | **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 | 216288 | 1 | 11/24/2015 22:18 | CH |
| 1,1,2,2-Tetrachloroethane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/24/2015 22:18 | CH |
| 1,1,2-Trichloroethane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/24/2015 22:18 | CH |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/24/2015 22:18 | CH |
| 1,1-Dichloroethene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/24/2015 22:18 | CH |
| 1,2,4-Trichlorobenzene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/24/2015 22:18 | CH |
| 1,2-Dibromo-3-chloropropane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/24/2015 22:18 | CH |
| 1,2-Dibromoethane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/24/2015 22:18 | CH |
| 1,2-Dichlorobenzene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/24/2015 22:18 | CH |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/24/2015 22:18 | CH |
| 1,2-Dichloropropane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/24/2015 22:18 | CH |
| 1,3-Dichlorobenzene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/24/2015 22:18 | CH |
| 1,4-Dichlorobenzene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/24/2015 22:18 | CH |
| 2-Butanone | BRL | 50 | | ug/L | 216288 | 1 | 11/24/2015 22:18 | CH |
| 2-Hexanone | BRL | 10 | | ug/L | 216288 | 1 | 11/24/2015 22:18 | CH |
| 4-Methyl-2-pentanone | BRL | 10 | | ug/L | 216288 | 1 | 11/24/2015 22:18 | CH |
| Acetone | BRL | 50 | | ug/L | 216288 | 1 | 11/24/2015 22:18 | CH |
| Benzene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/24/2015 22:18 | CH |
| Bromodichloromethane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/24/2015 22:18 | CH |
| Bromoform | BRL | 5.0 | | ug/L | 216288 | 1 | 11/24/2015 22:18 | CH |
| Bromomethane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/24/2015 22:18 | CH |
| Carbon disulfide | BRL | 5.0 | | ug/L | 216288 | 1 | 11/24/2015 22:18 | CH |
| Carbon tetrachloride | BRL | 5.0 | | ug/L | 216288 | 1 | 11/24/2015 22:18 | CH |
| Chlorobenzene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/24/2015 22:18 | CH |
| Chloroethane | BRL | 10 | | ug/L | 216288 | 1 | 11/24/2015 22:18 | CH |
| Chloroform | BRL | 5.0 | | ug/L | 216288 | 1 | 11/24/2015 22:18 | CH |
| Chloromethane | BRL | 10 | | ug/L | 216288 | 1 | 11/24/2015 22:18 | CH |
| cis-1,2-Dichloroethene | 580 | 50 | | ug/L | 216288 | 10 | 11/24/2015 22:44 | CH |
| cis-1,3-Dichloropropene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/24/2015 22:18 | CH |
| Cyclohexane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/24/2015 22:18 | CH |
| Dibromochloromethane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/24/2015 22:18 | CH |
| Dichlorodifluoromethane | BRL | 10 | | ug/L | 216288 | 1 | 11/24/2015 22:18 | CH |
| Ethylbenzene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/24/2015 22:18 | CH |
| Freon-113 | BRL | 10 | | ug/L | 216288 | 1 | 11/24/2015 22:18 | CH |
| Isopropylbenzene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/24/2015 22:18 | CH |
| m,p-Xylene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/24/2015 22:18 | CH |
| Methyl acetate | BRL | 5.0 | | ug/L | 216288 | 1 | 11/24/2015 22:18 | CH |
| Methyl tert-butyl ether | BRL | 5.0 | | ug/L | 216288 | 1 | 11/24/2015 22:18 | CH |
| Methylcyclohexane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/24/2015 22:18 | CH |
| Methylene chloride | BRL | 5.0 | | ug/L | 216288 | 1 | 11/24/2015 22:18 | CH |
| o-Xylene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/24/2015 22:18 | CH |

**Qualifiers:**

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike 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-15

| | | | |
|---|---|---|---|
| **Client:** | Arcadis | **Client Sample ID:** | DUP-01 (11162015) |
| **Project Name:** | Lafarge East Point | **Collection Date:** | 11/16/2015 |
| **Lab ID:** | 1511H11-005 | **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 | 216288 | 1 | 11/24/2015 22:18 | CH |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/24/2015 22:18 | CH |
| Toluene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/24/2015 22:18 | CH |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/24/2015 22:18 | CH |
| trans-1,3-Dichloropropene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/24/2015 22:18 | CH |
| Trichloroethene | 24 | 5.0 | | ug/L | 216288 | 1 | 11/24/2015 22:18 | CH |
| Trichlorofluoromethane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/24/2015 22:18 | CH |
| Vinyl chloride | BRL | 2.0 | | ug/L | 216288 | 1 | 11/24/2015 22:18 | CH |
| Surr: 4-Bromofluorobenzene | 83.6 | 70.7-125 | | %REC | 216288 | 1 | 11/24/2015 22:18 | CH |
| Surr: 4-Bromofluorobenzene | 89.6 | 70.7-125 | | %REC | 216288 | 10 | 11/24/2015 22:44 | CH |
| Surr: Dibromofluoromethane | 94.6 | 82.2-120 | | %REC | 216288 | 1 | 11/24/2015 22:18 | CH |
| Surr: Dibromofluoromethane | 95.8 | 82.2-120 | | %REC | 216288 | 10 | 11/24/2015 22:44 | CH |
| Surr: Toluene-d8 | 98.4 | 81.8-120 | | %REC | 216288 | 1 | 11/24/2015 22:18 | CH |
| Surr: Toluene-d8 | 102 | 81.8-120 | | %REC | 216288 | 10 | 11/24/2015 22:44 | CH |

**Qualifiers:**

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike 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-15

| | | | |
|---|---|---|---|
| **Client:** | Arcadis | **Client Sample ID:** | MW-33 (11162015) |
| **Project Name:** | Lafarge East Point | **Collection Date:** | 11/16/2015 2:30:00 PM |
| **Lab ID:** | 1511H11-006 | **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 | 216288 | 1 | 11/23/2015 14:53 | CH |
| 1,1,2,2-Tetrachloroethane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 14:53 | CH |
| 1,1,2-Trichloroethane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 14:53 | CH |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 14:53 | CH |
| 1,1-Dichloroethene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 14:53 | CH |
| 1,2,4-Trichlorobenzene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 14:53 | CH |
| 1,2-Dibromo-3-chloropropane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 14:53 | CH |
| 1,2-Dibromoethane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 14:53 | CH |
| 1,2-Dichlorobenzene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 14:53 | CH |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 14:53 | CH |
| 1,2-Dichloropropane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 14:53 | CH |
| 1,3-Dichlorobenzene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 14:53 | CH |
| 1,4-Dichlorobenzene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 14:53 | CH |
| 2-Butanone | BRL | 50 | | ug/L | 216288 | 1 | 11/23/2015 14:53 | CH |
| 2-Hexanone | BRL | 10 | | ug/L | 216288 | 1 | 11/23/2015 14:53 | CH |
| 4-Methyl-2-pentanone | BRL | 10 | | ug/L | 216288 | 1 | 11/23/2015 14:53 | CH |
| Acetone | BRL | 50 | | ug/L | 216288 | 1 | 11/23/2015 14:53 | CH |
| Benzene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 14:53 | CH |
| Bromodichloromethane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 14:53 | CH |
| Bromoform | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 14:53 | CH |
| Bromomethane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 14:53 | CH |
| Carbon disulfide | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 14:53 | CH |
| Carbon tetrachloride | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 14:53 | CH |
| Chlorobenzene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 14:53 | CH |
| Chloroethane | BRL | 10 | | ug/L | 216288 | 1 | 11/23/2015 14:53 | CH |
| Chloroform | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 14:53 | CH |
| Chloromethane | BRL | 10 | | ug/L | 216288 | 1 | 11/23/2015 14:53 | CH |
| cis-1,2-Dichloroethene | 28 | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 14:53 | CH |
| cis-1,3-Dichloropropene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 14:53 | CH |
| Cyclohexane | 7.5 | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 14:53 | CH |
| Dibromochloromethane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 14:53 | CH |
| Dichlorodifluoromethane | BRL | 10 | | ug/L | 216288 | 1 | 11/23/2015 14:53 | CH |
| Ethylbenzene | 7.2 | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 14:53 | CH |
| Freon-113 | BRL | 10 | | ug/L | 216288 | 1 | 11/23/2015 14:53 | CH |
| Isopropylbenzene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 14:53 | CH |
| m,p-Xylene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 14:53 | CH |
| Methyl acetate | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 14:53 | CH |
| Methyl tert-butyl ether | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 14:53 | CH |
| Methylcyclohexane | 14 | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 14:53 | CH |
| Methylene chloride | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 14:53 | CH |
| o-Xylene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 14:53 | CH |

**Qualifiers:**

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike 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-15

| | | | |
|---|---|---|---|
| **Client:** | Arcadis | **Client Sample ID:** | MW-33 (11162015) |
| **Project Name:** | Lafarge East Point | **Collection Date:** | 11/16/2015 2:30:00 PM |
| **Lab ID:** | 1511H11-006 | **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 | 216288 | 1 | 11/23/2015 14:53 | CH |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 14:53 | CH |
| Toluene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 14:53 | CH |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 14:53 | CH |
| trans-1,3-Dichloropropene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 14:53 | CH |
| Trichloroethene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 14:53 | CH |
| Trichlorofluoromethane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 14:53 | CH |
| Vinyl chloride | 18 | 2.0 | | ug/L | 216288 | 1 | 11/23/2015 14:53 | CH |
| Surr: 4-Bromofluorobenzene | 96.2 | 70.7-125 | | %REC | 216288 | 1 | 11/23/2015 14:53 | CH |
| Surr: Dibromofluoromethane | 95.1 | 82.2-120 | | %REC | 216288 | 1 | 11/23/2015 14:53 | CH |
| Surr: Toluene-d8 | 99.1 | 81.8-120 | | %REC | 216288 | 1 | 11/23/2015 14:53 | CH |

**Qualifiers:**

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike 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-15

| | | | |
|---|---|---|---|
| **Client:** | Arcadis | **Client Sample ID:** | DUP-02 (11162015) |
| **Project Name:** | Lafarge East Point | **Collection Date:** | 11/16/2015 |
| **Lab ID:** | 1511H11-007 | **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 | 216288 | 1 | 11/23/2015 15:19 | CH |
| 1,1,2,2-Tetrachloroethane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 15:19 | CH |
| 1,1,2-Trichloroethane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 15:19 | CH |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 15:19 | CH |
| 1,1-Dichloroethene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 15:19 | CH |
| 1,2,4-Trichlorobenzene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 15:19 | CH |
| 1,2-Dibromo-3-chloropropane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 15:19 | CH |
| 1,2-Dibromoethane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 15:19 | CH |
| 1,2-Dichlorobenzene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 15:19 | CH |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 15:19 | CH |
| 1,2-Dichloropropane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 15:19 | CH |
| 1,3-Dichlorobenzene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 15:19 | CH |
| 1,4-Dichlorobenzene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 15:19 | CH |
| 2-Butanone | BRL | 50 | | ug/L | 216288 | 1 | 11/23/2015 15:19 | CH |
| 2-Hexanone | BRL | 10 | | ug/L | 216288 | 1 | 11/23/2015 15:19 | CH |
| 4-Methyl-2-pentanone | BRL | 10 | | ug/L | 216288 | 1 | 11/23/2015 15:19 | CH |
| Acetone | BRL | 50 | | ug/L | 216288 | 1 | 11/23/2015 15:19 | CH |
| Benzene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 15:19 | CH |
| Bromodichloromethane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 15:19 | CH |
| Bromoform | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 15:19 | CH |
| Bromomethane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 15:19 | CH |
| Carbon disulfide | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 15:19 | CH |
| Carbon tetrachloride | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 15:19 | CH |
| Chlorobenzene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 15:19 | CH |
| Chloroethane | BRL | 10 | | ug/L | 216288 | 1 | 11/23/2015 15:19 | CH |
| Chloroform | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 15:19 | CH |
| Chloromethane | BRL | 10 | | ug/L | 216288 | 1 | 11/23/2015 15:19 | CH |
| cis-1,2-Dichloroethene | 27 | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 15:19 | CH |
| cis-1,3-Dichloropropene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 15:19 | CH |
| Cyclohexane | 5.8 | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 15:19 | CH |
| Dibromochloromethane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 15:19 | CH |
| Dichlorodifluoromethane | BRL | 10 | | ug/L | 216288 | 1 | 11/23/2015 15:19 | CH |
| Ethylbenzene | 6.9 | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 15:19 | CH |
| Freon-113 | BRL | 10 | | ug/L | 216288 | 1 | 11/23/2015 15:19 | CH |
| Isopropylbenzene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 15:19 | CH |
| m,p-Xylene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 15:19 | CH |
| Methyl acetate | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 15:19 | CH |
| Methyl tert-butyl ether | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 15:19 | CH |
| Methylcyclohexane | 14 | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 15:19 | CH |
| Methylene chloride | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 15:19 | CH |
| o-Xylene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 15:19 | CH |

**Qualifiers:**

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike 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-15

| | | | |
|---|---|---|---|
| **Client:** | Arcadis | **Client Sample ID:** | DUP-02 (11162015) |
| **Project Name:** | Lafarge East Point | **Collection Date:** | 11/16/2015 |
| **Lab ID:** | 1511H11-007 | **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 | 216288 | 1 | 11/23/2015 15:19 | CH |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 15:19 | CH |
| Toluene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 15:19 | CH |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 15:19 | CH |
| trans-1,3-Dichloropropene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 15:19 | CH |
| Trichloroethene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 15:19 | CH |
| Trichlorofluoromethane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 15:19 | CH |
| Vinyl chloride | 18 | 2.0 | | ug/L | 216288 | 1 | 11/23/2015 15:19 | CH |
| Surr: 4-Bromofluorobenzene | 93 | 70.7-125 | | %REC | 216288 | 1 | 11/23/2015 15:19 | CH |
| Surr: Dibromofluoromethane | 93 | 82.2-120 | | %REC | 216288 | 1 | 11/23/2015 15:19 | CH |
| Surr: Toluene-d8 | 98 | 81.8-120 | | %REC | 216288 | 1 | 11/23/2015 15:19 | CH |

**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:** 2-Dec-15

| | | | |
|---|---|---|---|
| **Client:** | Arcadis | **Client Sample ID:** | MW-8 (11162015) |
| **Project Name:** | Lafarge East Point | **Collection Date:** | 11/16/2015 3:50:00 PM |
| **Lab ID:** | 1511H11-008 | **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 | 216288 | 1 | 11/23/2015 21:57 | CH |
| 1,1,2,2-Tetrachloroethane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 21:57 | CH |
| 1,1,2-Trichloroethane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 21:57 | CH |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 21:57 | CH |
| 1,1-Dichloroethene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 21:57 | CH |
| 1,2,4-Trichlorobenzene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 21:57 | CH |
| 1,2-Dibromo-3-chloropropane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 21:57 | CH |
| 1,2-Dibromoethane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 21:57 | CH |
| 1,2-Dichlorobenzene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 21:57 | CH |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 21:57 | CH |
| 1,2-Dichloropropane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 21:57 | CH |
| 1,3-Dichlorobenzene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 21:57 | CH |
| 1,4-Dichlorobenzene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 21:57 | CH |
| 2-Butanone | BRL | 50 | | ug/L | 216288 | 1 | 11/23/2015 21:57 | CH |
| 2-Hexanone | BRL | 10 | | ug/L | 216288 | 1 | 11/23/2015 21:57 | CH |
| 4-Methyl-2-pentanone | BRL | 10 | | ug/L | 216288 | 1 | 11/23/2015 21:57 | CH |
| Acetone | BRL | 50 | | ug/L | 216288 | 1 | 11/23/2015 21:57 | CH |
| Benzene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 21:57 | CH |
| Bromodichloromethane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 21:57 | CH |
| Bromoform | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 21:57 | CH |
| Bromomethane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 21:57 | CH |
| Carbon disulfide | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 21:57 | CH |
| Carbon tetrachloride | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 21:57 | CH |
| Chlorobenzene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 21:57 | CH |
| Chloroethane | BRL | 10 | | ug/L | 216288 | 1 | 11/23/2015 21:57 | CH |
| Chloroform | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 21:57 | CH |
| Chloromethane | BRL | 10 | | ug/L | 216288 | 1 | 11/23/2015 21:57 | CH |
| cis-1,2-Dichloroethene | 95 | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 21:57 | CH |
| cis-1,3-Dichloropropene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 21:57 | CH |
| Cyclohexane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 21:57 | CH |
| Dibromochloromethane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 21:57 | CH |
| Dichlorodifluoromethane | BRL | 10 | | ug/L | 216288 | 1 | 11/23/2015 21:57 | CH |
| Ethylbenzene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 21:57 | CH |
| Freon-113 | BRL | 10 | | ug/L | 216288 | 1 | 11/23/2015 21:57 | CH |
| Isopropylbenzene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 21:57 | CH |
| m,p-Xylene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 21:57 | CH |
| Methyl acetate | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 21:57 | CH |
| Methyl tert-butyl ether | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 21:57 | CH |
| Methylcyclohexane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 21:57 | CH |
| Methylene chloride | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 21:57 | CH |
| o-Xylene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 21:57 | CH |

**Qualifiers:**

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike 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-15

| | | | |
|---|---|---|---|
| **Client:** | Arcadis | **Client Sample ID:** | MW-8 (11162015) |
| **Project Name:** | Lafarge East Point | **Collection Date:** | 11/16/2015 3:50:00 PM |
| **Lab ID:** | 1511H11-008 | **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 | 216288 | 1 | 11/23/2015 21:57 | CH |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 21:57 | CH |
| Toluene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 21:57 | CH |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 21:57 | CH |
| trans-1,3-Dichloropropene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 21:57 | CH |
| Trichloroethene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 21:57 | CH |
| Trichlorofluoromethane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 21:57 | CH |
| Vinyl chloride | 160 | 20 | | ug/L | 216288 | 10 | 11/25/2015 10:33 | JE |
| Surr: 4-Bromofluorobenzene | 91 | 70.7-125 | | %REC | 216288 | 1 | 11/23/2015 21:57 | CH |
| Surr: 4-Bromofluorobenzene | 98.2 | 70.7-125 | | %REC | 216288 | 10 | 11/25/2015 10:33 | JE |
| Surr: Dibromofluoromethane | 91.7 | 82.2-120 | | %REC | 216288 | 1 | 11/23/2015 21:57 | CH |
| Surr: Dibromofluoromethane | 114 | 82.2-120 | | %REC | 216288 | 10 | 11/25/2015 10:33 | JE |
| Surr: Toluene-d8 | 95.3 | 81.8-120 | | %REC | 216288 | 10 | 11/25/2015 10:33 | JE |
| Surr: Toluene-d8 | 97.7 | 81.8-120 | | %REC | 216288 | 1 | 11/23/2015 21:57 | CH |

**Qualifiers:**

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike 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-15

| | | | |
|---|---|---|---|
| **Client:** | Arcadis | **Client Sample ID:** | MW-21 (11162015) |
| **Project Name:** | Lafarge East Point | **Collection Date:** | 11/16/2015 4:30:00 PM |
| **Lab ID:** | 1511H11-009 | **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 | 216288 | 1 | 11/25/2015 10:57 | JE |
| 1,1,2,2-Tetrachloroethane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/25/2015 10:57 | JE |
| 1,1,2-Trichloroethane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/25/2015 10:57 | JE |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/25/2015 10:57 | JE |
| 1,1-Dichloroethene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/25/2015 10:57 | JE |
| 1,2,4-Trichlorobenzene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/25/2015 10:57 | JE |
| 1,2-Dibromo-3-chloropropane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/25/2015 10:57 | JE |
| 1,2-Dibromoethane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/25/2015 10:57 | JE |
| 1,2-Dichlorobenzene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/25/2015 10:57 | JE |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/25/2015 10:57 | JE |
| 1,2-Dichloropropane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/25/2015 10:57 | JE |
| 1,3-Dichlorobenzene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/25/2015 10:57 | JE |
| 1,4-Dichlorobenzene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/25/2015 10:57 | JE |
| 2-Butanone | BRL | 50 | | ug/L | 216288 | 1 | 11/25/2015 10:57 | JE |
| 2-Hexanone | BRL | 10 | | ug/L | 216288 | 1 | 11/25/2015 10:57 | JE |
| 4-Methyl-2-pentanone | BRL | 10 | | ug/L | 216288 | 1 | 11/25/2015 10:57 | JE |
| Acetone | BRL | 50 | | ug/L | 216288 | 1 | 11/25/2015 10:57 | JE |
| Benzene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/25/2015 10:57 | JE |
| Bromodichloromethane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/25/2015 10:57 | JE |
| Bromoform | BRL | 5.0 | | ug/L | 216288 | 1 | 11/25/2015 10:57 | JE |
| Bromomethane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/25/2015 10:57 | JE |
| Carbon disulfide | BRL | 5.0 | | ug/L | 216288 | 1 | 11/25/2015 10:57 | JE |
| Carbon tetrachloride | BRL | 5.0 | | ug/L | 216288 | 1 | 11/25/2015 10:57 | JE |
| Chlorobenzene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/25/2015 10:57 | JE |
| Chloroethane | BRL | 10 | | ug/L | 216288 | 1 | 11/25/2015 10:57 | JE |
| Chloroform | BRL | 5.0 | | ug/L | 216288 | 1 | 11/25/2015 10:57 | JE |
| Chloromethane | BRL | 10 | | ug/L | 216288 | 1 | 11/25/2015 10:57 | JE |
| cis-1,2-Dichloroethene | 340 | 50 | | ug/L | 216288 | 10 | 11/25/2015 11:21 | JE |
| cis-1,3-Dichloropropene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/25/2015 10:57 | JE |
| Cyclohexane | 10 | 5.0 | | ug/L | 216288 | 1 | 11/25/2015 10:57 | JE |
| Dibromochloromethane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/25/2015 10:57 | JE |
| Dichlorodifluoromethane | BRL | 10 | | ug/L | 216288 | 1 | 11/25/2015 10:57 | JE |
| Ethylbenzene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/25/2015 10:57 | JE |
| Freon-113 | BRL | 10 | | ug/L | 216288 | 1 | 11/25/2015 10:57 | JE |
| Isopropylbenzene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/25/2015 10:57 | JE |
| m,p-Xylene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/25/2015 10:57 | JE |
| Methyl acetate | BRL | 5.0 | | ug/L | 216288 | 1 | 11/25/2015 10:57 | JE |
| Methyl tert-butyl ether | BRL | 5.0 | | ug/L | 216288 | 1 | 11/25/2015 10:57 | JE |
| Methylcyclohexane | 31 | 5.0 | | ug/L | 216288 | 1 | 11/25/2015 10:57 | JE |
| Methylene chloride | BRL | 5.0 | | ug/L | 216288 | 1 | 11/25/2015 10:57 | JE |
| o-Xylene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/25/2015 10:57 | 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:** 2-Dec-15

| | | | |
|---|---|---|---|
| **Client:** | Arcadis | **Client Sample ID:** | MW-21 (11162015) |
| **Project Name:** | Lafarge East Point | **Collection Date:** | 11/16/2015 4:30:00 PM |
| **Lab ID:** | 1511H11-009 | **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 | 216288 | 1 | 11/25/2015 10:57 | JE |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/25/2015 10:57 | JE |
| Toluene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/25/2015 10:57 | JE |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/25/2015 10:57 | JE |
| trans-1,3-Dichloropropene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/25/2015 10:57 | JE |
| Trichloroethene | 8.2 | 5.0 | | ug/L | 216288 | 1 | 11/25/2015 10:57 | JE |
| Trichlorofluoromethane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/25/2015 10:57 | JE |
| Vinyl chloride | 160 | 2.0 | | ug/L | 216288 | 1 | 11/25/2015 10:57 | JE |
| Surr: 4-Bromofluorobenzene | 99.6 | 70.7-125 | | %REC | 216288 | 1 | 11/25/2015 10:57 | JE |
| Surr: 4-Bromofluorobenzene | 100 | 70.7-125 | | %REC | 216288 | 10 | 11/25/2015 11:21 | JE |
| Surr: Dibromofluoromethane | 107 | 82.2-120 | | %REC | 216288 | 1 | 11/25/2015 10:57 | JE |
| Surr: Dibromofluoromethane | 109 | 82.2-120 | | %REC | 216288 | 10 | 11/25/2015 11:21 | JE |
| Surr: Toluene-d8 | 94 | 81.8-120 | | %REC | 216288 | 1 | 11/25/2015 10:57 | JE |
| Surr: Toluene-d8 | 92.7 | 81.8-120 | | %REC | 216288 | 10 | 11/25/2015 11:21 | 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:** 2-Dec-15

| | | | |
|---|---|---|---|
| **Client:** | Arcadis | **Client Sample ID:** | RW-2 (11172015) |
| **Project Name:** | Lafarge East Point | **Collection Date:** | 11/17/2015 12:05:00 PM |
| **Lab ID:** | 1511H11-010 | **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 | 216288 | 1 | 11/24/2015 23:36 | CH |
| 1,1,2,2-Tetrachloroethane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/24/2015 23:36 | CH |
| 1,1,2-Trichloroethane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/24/2015 23:36 | CH |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/24/2015 23:36 | CH |
| 1,1-Dichloroethene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/24/2015 23:36 | CH |
| 1,2,4-Trichlorobenzene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/24/2015 23:36 | CH |
| 1,2-Dibromo-3-chloropropane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/24/2015 23:36 | CH |
| 1,2-Dibromoethane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/24/2015 23:36 | CH |
| 1,2-Dichlorobenzene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/24/2015 23:36 | CH |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/24/2015 23:36 | CH |
| 1,2-Dichloropropane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/24/2015 23:36 | CH |
| 1,3-Dichlorobenzene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/24/2015 23:36 | CH |
| 1,4-Dichlorobenzene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/24/2015 23:36 | CH |
| 2-Butanone | BRL | 50 | | ug/L | 216288 | 1 | 11/24/2015 23:36 | CH |
| 2-Hexanone | BRL | 10 | | ug/L | 216288 | 1 | 11/24/2015 23:36 | CH |
| 4-Methyl-2-pentanone | 11 | 10 | | ug/L | 216288 | 1 | 11/24/2015 23:36 | CH |
| Acetone | BRL | 50 | | ug/L | 216288 | 1 | 11/24/2015 23:36 | CH |
| Benzene | 70 | 5.0 | | ug/L | 216288 | 1 | 11/24/2015 23:36 | CH |
| Bromodichloromethane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/24/2015 23:36 | CH |
| Bromoform | BRL | 5.0 | | ug/L | 216288 | 1 | 11/24/2015 23:36 | CH |
| Bromomethane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/24/2015 23:36 | CH |
| Carbon disulfide | BRL | 5.0 | | ug/L | 216288 | 1 | 11/24/2015 23:36 | CH |
| Carbon tetrachloride | BRL | 5.0 | | ug/L | 216288 | 1 | 11/24/2015 23:36 | CH |
| Chlorobenzene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/24/2015 23:36 | CH |
| Chloroethane | BRL | 10 | | ug/L | 216288 | 1 | 11/24/2015 23:36 | CH |
| Chloroform | BRL | 5.0 | | ug/L | 216288 | 1 | 11/24/2015 23:36 | CH |
| Chloromethane | BRL | 10 | | ug/L | 216288 | 1 | 11/24/2015 23:36 | CH |
| cis-1,2-Dichloroethene | 470 | 100 | | ug/L | 216288 | 20 | 11/25/2015 11:44 | JE |
| cis-1,3-Dichloropropene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/24/2015 23:36 | CH |
| Cyclohexane | 43 | 5.0 | | ug/L | 216288 | 1 | 11/24/2015 23:36 | CH |
| Dibromochloromethane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/24/2015 23:36 | CH |
| Dichlorodifluoromethane | BRL | 10 | | ug/L | 216288 | 1 | 11/24/2015 23:36 | CH |
| Ethylbenzene | 88 | 5.0 | | ug/L | 216288 | 1 | 11/24/2015 23:36 | CH |
| Freon-113 | BRL | 10 | | ug/L | 216288 | 1 | 11/24/2015 23:36 | CH |
| Isopropylbenzene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/24/2015 23:36 | CH |
| m,p-Xylene | 760 | 100 | | ug/L | 216288 | 20 | 11/25/2015 11:44 | JE |
| Methyl acetate | BRL | 5.0 | | ug/L | 216288 | 1 | 11/24/2015 23:36 | CH |
| Methyl tert-butyl ether | BRL | 5.0 | | ug/L | 216288 | 1 | 11/24/2015 23:36 | CH |
| Methylcyclohexane | 24 | 5.0 | | ug/L | 216288 | 1 | 11/24/2015 23:36 | CH |
| Methylene chloride | BRL | 5.0 | | ug/L | 216288 | 1 | 11/24/2015 23:36 | CH |
| o-Xylene | 290 | 100 | | ug/L | 216288 | 20 | 11/25/2015 11:44 | 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:** 2-Dec-15

| | | | |
|---|---|---|---|
| **Client:** | Arcadis | **Client Sample ID:** | RW-2 (11172015) |
| **Project Name:** | Lafarge East Point | **Collection Date:** | 11/17/2015 12:05:00 PM |
| **Lab ID:** | 1511H11-010 | **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 | 216288 | 1 | 11/24/2015 23:36 | CH |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/24/2015 23:36 | CH |
| Toluene | 2900 | 100 | | ug/L | 216288 | 20 | 11/25/2015 11:44 | JE |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/24/2015 23:36 | CH |
| trans-1,3-Dichloropropene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/24/2015 23:36 | CH |
| Trichloroethene | 32 | 5.0 | | ug/L | 216288 | 1 | 11/24/2015 23:36 | CH |
| Trichlorofluoromethane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/24/2015 23:36 | CH |
| Vinyl chloride | 370 | 40 | | ug/L | 216288 | 20 | 11/25/2015 11:44 | JE |
| Surr: 4-Bromofluorobenzene | 100 | 70.7-125 | | %REC | 216288 | 20 | 11/25/2015 11:44 | JE |
| Surr: 4-Bromofluorobenzene | 98.6 | 70.7-125 | | %REC | 216288 | 1 | 11/24/2015 23:36 | CH |
| Surr: Dibromofluoromethane | 109 | 82.2-120 | | %REC | 216288 | 20 | 11/25/2015 11:44 | JE |
| Surr: Dibromofluoromethane | 96.1 | 82.2-120 | | %REC | 216288 | 1 | 11/24/2015 23:36 | CH |
| Surr: Toluene-d8 | 101 | 81.8-120 | | %REC | 216288 | 1 | 11/24/2015 23:36 | CH |
| Surr: Toluene-d8 | 94.6 | 81.8-120 | | %REC | 216288 | 20 | 11/25/2015 11:44 | 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:** 2-Dec-15

| | | | |
|---|---|---|---|
| **Client:** | Arcadis | **Client Sample ID:** | RW-8 (11172015) |
| **Project Name:** | Lafarge East Point | **Collection Date:** | 11/17/2015 10:30:00 AM |
| **Lab ID:** | 1511H11-011 | **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 | 216288 | 1 | 11/26/2015 03:16 | CH |
| 1,1,2,2-Tetrachloroethane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/26/2015 03:16 | CH |
| 1,1,2-Trichloroethane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/26/2015 03:16 | CH |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/26/2015 03:16 | CH |
| 1,1-Dichloroethene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/26/2015 03:16 | CH |
| 1,2,4-Trichlorobenzene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/26/2015 03:16 | CH |
| 1,2-Dibromo-3-chloropropane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/26/2015 03:16 | CH |
| 1,2-Dibromoethane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/26/2015 03:16 | CH |
| 1,2-Dichlorobenzene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/26/2015 03:16 | CH |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/26/2015 03:16 | CH |
| 1,2-Dichloropropane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/26/2015 03:16 | CH |
| 1,3-Dichlorobenzene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/26/2015 03:16 | CH |
| 1,4-Dichlorobenzene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/26/2015 03:16 | CH |
| 2-Butanone | BRL | 50 | | ug/L | 216288 | 1 | 11/26/2015 03:16 | CH |
| 2-Hexanone | BRL | 10 | | ug/L | 216288 | 1 | 11/26/2015 03:16 | CH |
| 4-Methyl-2-pentanone | BRL | 10 | | ug/L | 216288 | 1 | 11/26/2015 03:16 | CH |
| Acetone | BRL | 50 | | ug/L | 216288 | 1 | 11/26/2015 03:16 | CH |
| Benzene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/26/2015 03:16 | CH |
| Bromodichloromethane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/26/2015 03:16 | CH |
| Bromoform | BRL | 5.0 | | ug/L | 216288 | 1 | 11/26/2015 03:16 | CH |
| Bromomethane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/26/2015 03:16 | CH |
| Carbon disulfide | BRL | 5.0 | | ug/L | 216288 | 1 | 11/26/2015 03:16 | CH |
| Carbon tetrachloride | BRL | 5.0 | | ug/L | 216288 | 1 | 11/26/2015 03:16 | CH |
| Chlorobenzene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/26/2015 03:16 | CH |
| Chloroethane | BRL | 10 | | ug/L | 216288 | 1 | 11/26/2015 03:16 | CH |
| Chloroform | BRL | 5.0 | | ug/L | 216288 | 1 | 11/26/2015 03:16 | CH |
| Chloromethane | BRL | 10 | | ug/L | 216288 | 1 | 11/26/2015 03:16 | CH |
| cis-1,2-Dichloroethene | 390 | 50 | | ug/L | 216288 | 10 | 11/25/2015 12:08 | JE |
| cis-1,3-Dichloropropene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/26/2015 03:16 | CH |
| Cyclohexane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/26/2015 03:16 | CH |
| Dibromochloromethane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/26/2015 03:16 | CH |
| Dichlorodifluoromethane | BRL | 10 | | ug/L | 216288 | 1 | 11/26/2015 03:16 | CH |
| Ethylbenzene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/26/2015 03:16 | CH |
| Freon-113 | BRL | 10 | | ug/L | 216288 | 1 | 11/26/2015 03:16 | CH |
| Isopropylbenzene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/26/2015 03:16 | CH |
| m,p-Xylene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/26/2015 03:16 | CH |
| Methyl acetate | BRL | 5.0 | | ug/L | 216288 | 1 | 11/26/2015 03:16 | CH |
| Methyl tert-butyl ether | BRL | 5.0 | | ug/L | 216288 | 1 | 11/26/2015 03:16 | CH |
| Methylcyclohexane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/26/2015 03:16 | CH |
| Methylene chloride | BRL | 5.0 | | ug/L | 216288 | 1 | 11/26/2015 03:16 | CH |
| o-Xylene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/26/2015 03:16 | CH |

**Qualifiers:**

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike 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-15

| | | | |
|---|---|---|---|
| **Client:** | Arcadis | **Client Sample ID:** | RW-8 (11172015) |
| **Project Name:** | Lafarge East Point | **Collection Date:** | 11/17/2015 10:30:00 AM |
| **Lab ID:** | 1511H11-011 | **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 | 216288 | 1 | 11/26/2015 03:16 | CH |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/26/2015 03:16 | CH |
| Toluene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/26/2015 03:16 | CH |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/26/2015 03:16 | CH |
| trans-1,3-Dichloropropene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/26/2015 03:16 | CH |
| Trichloroethene | 290 | 50 | | ug/L | 216288 | 10 | 11/25/2015 12:08 | JE |
| Trichlorofluoromethane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/26/2015 03:16 | CH |
| Vinyl chloride | 13 | 2.0 | | ug/L | 216288 | 1 | 11/26/2015 03:16 | CH |
| Surr: 4-Bromofluorobenzene | 81.9 | 70.7-125 | | %REC | 216288 | 1 | 11/26/2015 03:16 | CH |
| Surr: 4-Bromofluorobenzene | 101 | 70.7-125 | | %REC | 216288 | 10 | 11/25/2015 12:08 | JE |
| Surr: Dibromofluoromethane | 95.9 | 82.2-120 | | %REC | 216288 | 1 | 11/26/2015 03:16 | CH |
| Surr: Dibromofluoromethane | 112 | 82.2-120 | | %REC | 216288 | 10 | 11/25/2015 12:08 | JE |
| Surr: Toluene-d8 | 94.6 | 81.8-120 | | %REC | 216288 | 10 | 11/25/2015 12:08 | JE |
| Surr: Toluene-d8 | 97.9 | 81.8-120 | | %REC | 216288 | 1 | 11/26/2015 03:16 | CH |

**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:** 2-Dec-15

| | | | |
|---|---|---|---|
| **Client:** | Arcadis | **Client Sample ID:** | RW-7 (11172015) |
| **Project Name:** | Lafarge East Point | **Collection Date:** | 11/17/2015 10:55:00 AM |
| **Lab ID:** | 1511H11-012 | **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 | 216288 | 1 | 11/23/2015 22:48 | CH |
| 1,1,2,2-Tetrachloroethane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 22:48 | CH |
| 1,1,2-Trichloroethane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 22:48 | CH |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 22:48 | CH |
| 1,1-Dichloroethene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 22:48 | CH |
| 1,2,4-Trichlorobenzene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 22:48 | CH |
| 1,2-Dibromo-3-chloropropane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 22:48 | CH |
| 1,2-Dibromoethane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 22:48 | CH |
| 1,2-Dichlorobenzene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 22:48 | CH |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 22:48 | CH |
| 1,2-Dichloropropane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 22:48 | CH |
| 1,3-Dichlorobenzene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 22:48 | CH |
| 1,4-Dichlorobenzene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 22:48 | CH |
| 2-Butanone | BRL | 50 | | ug/L | 216288 | 1 | 11/23/2015 22:48 | CH |
| 2-Hexanone | BRL | 10 | | ug/L | 216288 | 1 | 11/23/2015 22:48 | CH |
| 4-Methyl-2-pentanone | BRL | 10 | | ug/L | 216288 | 1 | 11/23/2015 22:48 | CH |
| Acetone | BRL | 50 | | ug/L | 216288 | 1 | 11/23/2015 22:48 | CH |
| Benzene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 22:48 | CH |
| Bromodichloromethane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 22:48 | CH |
| Bromoform | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 22:48 | CH |
| Bromomethane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 22:48 | CH |
| Carbon disulfide | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 22:48 | CH |
| Carbon tetrachloride | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 22:48 | CH |
| Chlorobenzene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 22:48 | CH |
| Chloroethane | BRL | 10 | | ug/L | 216288 | 1 | 11/23/2015 22:48 | CH |
| Chloroform | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 22:48 | CH |
| Chloromethane | BRL | 10 | | ug/L | 216288 | 1 | 11/23/2015 22:48 | CH |
| cis-1,2-Dichloroethene | 9.3 | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 22:48 | CH |
| cis-1,3-Dichloropropene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 22:48 | CH |
| Cyclohexane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 22:48 | CH |
| Dibromochloromethane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 22:48 | CH |
| Dichlorodifluoromethane | BRL | 10 | | ug/L | 216288 | 1 | 11/23/2015 22:48 | CH |
| Ethylbenzene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 22:48 | CH |
| Freon-113 | BRL | 10 | | ug/L | 216288 | 1 | 11/23/2015 22:48 | CH |
| Isopropylbenzene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 22:48 | CH |
| m,p-Xylene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 22:48 | CH |
| Methyl acetate | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 22:48 | CH |
| Methyl tert-butyl ether | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 22:48 | CH |
| Methylcyclohexane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 22:48 | CH |
| Methylene chloride | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 22:48 | CH |
| o-Xylene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 22:48 | CH |

**Qualifiers:**

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike 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-15

| | | | |
|---|---|---|---|
| **Client:** | Arcadis | **Client Sample ID:** | RW-7 (11172015) |
| **Project Name:** | Lafarge East Point | **Collection Date:** | 11/17/2015 10:55:00 AM |
| **Lab ID:** | 1511H11-012 | **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 | 216288 | 1 | 11/23/2015 22:48 | CH |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 22:48 | CH |
| Toluene | 6.0 | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 22:48 | CH |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 22:48 | CH |
| trans-1,3-Dichloropropene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 22:48 | CH |
| Trichloroethene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 22:48 | CH |
| Trichlorofluoromethane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/23/2015 22:48 | CH |
| Vinyl chloride | 3.2 | 2.0 | | ug/L | 216288 | 1 | 11/23/2015 22:48 | CH |
| Surr: 4-Bromofluorobenzene | 91.1 | 70.7-125 | | %REC | 216288 | 1 | 11/23/2015 22:48 | CH |
| Surr: Dibromofluoromethane | 94.7 | 82.2-120 | | %REC | 216288 | 1 | 11/23/2015 22:48 | CH |
| Surr: Toluene-d8 | 98.6 | 81.8-120 | | %REC | 216288 | 1 | 11/23/2015 22:48 | CH |

**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:** 2-Dec-15

| | | | |
|---|---|---|---|
| **Client:** | Arcadis | **Client Sample ID:** | RW-6 (11172015) |
| **Project Name:** | Lafarge East Point | **Collection Date:** | 11/17/2015 11:09:00 AM |
| **Lab ID:** | 1511H11-013 | **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 | 216288 | 1 | 11/24/2015 23:10 | CH |
| 1,1,2,2-Tetrachloroethane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/24/2015 23:10 | CH |
| 1,1,2-Trichloroethane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/24/2015 23:10 | CH |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/24/2015 23:10 | CH |
| 1,1-Dichloroethene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/24/2015 23:10 | CH |
| 1,2,4-Trichlorobenzene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/24/2015 23:10 | CH |
| 1,2-Dibromo-3-chloropropane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/24/2015 23:10 | CH |
| 1,2-Dibromoethane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/24/2015 23:10 | CH |
| 1,2-Dichlorobenzene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/24/2015 23:10 | CH |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/24/2015 23:10 | CH |
| 1,2-Dichloropropane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/24/2015 23:10 | CH |
| 1,3-Dichlorobenzene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/24/2015 23:10 | CH |
| 1,4-Dichlorobenzene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/24/2015 23:10 | CH |
| 2-Butanone | BRL | 50 | | ug/L | 216288 | 1 | 11/24/2015 23:10 | CH |
| 2-Hexanone | BRL | 10 | | ug/L | 216288 | 1 | 11/24/2015 23:10 | CH |
| 4-Methyl-2-pentanone | BRL | 10 | | ug/L | 216288 | 1 | 11/24/2015 23:10 | CH |
| Acetone | BRL | 50 | | ug/L | 216288 | 1 | 11/24/2015 23:10 | CH |
| Benzene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/24/2015 23:10 | CH |
| Bromodichloromethane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/24/2015 23:10 | CH |
| Bromoform | BRL | 5.0 | | ug/L | 216288 | 1 | 11/24/2015 23:10 | CH |
| Bromomethane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/24/2015 23:10 | CH |
| Carbon disulfide | BRL | 5.0 | | ug/L | 216288 | 1 | 11/24/2015 23:10 | CH |
| Carbon tetrachloride | BRL | 5.0 | | ug/L | 216288 | 1 | 11/24/2015 23:10 | CH |
| Chlorobenzene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/24/2015 23:10 | CH |
| Chloroethane | BRL | 10 | | ug/L | 216288 | 1 | 11/24/2015 23:10 | CH |
| Chloroform | BRL | 5.0 | | ug/L | 216288 | 1 | 11/24/2015 23:10 | CH |
| Chloromethane | BRL | 10 | | ug/L | 216288 | 1 | 11/24/2015 23:10 | CH |
| cis-1,2-Dichloroethene | 190 | 5.0 | | ug/L | 216288 | 1 | 11/24/2015 23:10 | CH |
| cis-1,3-Dichloropropene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/24/2015 23:10 | CH |
| Cyclohexane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/24/2015 23:10 | CH |
| Dibromochloromethane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/24/2015 23:10 | CH |
| Dichlorodifluoromethane | BRL | 10 | | ug/L | 216288 | 1 | 11/24/2015 23:10 | CH |
| Ethylbenzene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/24/2015 23:10 | CH |
| Freon-113 | BRL | 10 | | ug/L | 216288 | 1 | 11/24/2015 23:10 | CH |
| Isopropylbenzene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/24/2015 23:10 | CH |
| m,p-Xylene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/24/2015 23:10 | CH |
| Methyl acetate | BRL | 5.0 | | ug/L | 216288 | 1 | 11/24/2015 23:10 | CH |
| Methyl tert-butyl ether | BRL | 5.0 | | ug/L | 216288 | 1 | 11/24/2015 23:10 | CH |
| Methylcyclohexane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/24/2015 23:10 | CH |
| Methylene chloride | BRL | 5.0 | | ug/L | 216288 | 1 | 11/24/2015 23:10 | CH |
| o-Xylene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/24/2015 23:10 | CH |

**Qualifiers:**

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike 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-15

| | | | |
|---|---|---|---|
| **Client:** | Arcadis | **Client Sample ID:** | RW-6 (11172015) |
| **Project Name:** | Lafarge East Point | **Collection Date:** | 11/17/2015 11:09:00 AM |
| **Lab ID:** | 1511H11-013 | **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 | 216288 | 1 | 11/24/2015 23:10 | CH |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/24/2015 23:10 | CH |
| Toluene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/24/2015 23:10 | CH |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/24/2015 23:10 | CH |
| trans-1,3-Dichloropropene | BRL | 5.0 | | ug/L | 216288 | 1 | 11/24/2015 23:10 | CH |
| Trichloroethene | 11 | 5.0 | | ug/L | 216288 | 1 | 11/24/2015 23:10 | CH |
| Trichlorofluoromethane | BRL | 5.0 | | ug/L | 216288 | 1 | 11/24/2015 23:10 | CH |
| Vinyl chloride | 25 | 2.0 | | ug/L | 216288 | 1 | 11/24/2015 23:10 | CH |
| Surr: 4-Bromofluorobenzene | 86.1 | 70.7-125 | | %REC | 216288 | 1 | 11/24/2015 23:10 | CH |
| Surr: Dibromofluoromethane | 93.1 | 82.2-120 | | %REC | 216288 | 1 | 11/24/2015 23:10 | CH |
| Surr: Toluene-d8 | 93.1 | 81.8-120 | | %REC | 216288 | 1 | 11/24/2015 23:10 | CH |

**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:** 2-Dec-15

| | | | |
|---|---|---|---|
| **Client:** | Arcadis | **Client Sample ID:** | MW-32 (11172015) |
| **Project Name:** | Lafarge East Point | **Collection Date:** | 11/17/2015 12:00:00 PM |
| **Lab ID:** | 1511H11-014 | **Matrix:** | Groundwater |

| Analyses | Result | Reporting Limit | Qual | Units | BatchID | Dilution Factor | Date Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|
| **TCL VOLATILE ORGANICS SW8260B** | | | | **(SW5030B)** | | | | |
| 1,1,1-Trichloroethane | BRL | 50 | | ug/L | 216305 | 10 | 11/25/2015 12:31 | JE |
| 1,1,2,2-Tetrachloroethane | BRL | 50 | | ug/L | 216305 | 10 | 11/25/2015 12:31 | JE |
| 1,1,2-Trichloroethane | BRL | 50 | | ug/L | 216305 | 10 | 11/25/2015 12:31 | JE |
| 1,1-Dichloroethane | BRL | 50 | | ug/L | 216305 | 10 | 11/25/2015 12:31 | JE |
| 1,1-Dichloroethene | BRL | 50 | | ug/L | 216305 | 10 | 11/25/2015 12:31 | JE |
| 1,2,4-Trichlorobenzene | BRL | 50 | | ug/L | 216305 | 10 | 11/25/2015 12:31 | JE |
| 1,2-Dibromo-3-chloropropane | BRL | 50 | | ug/L | 216305 | 10 | 11/25/2015 12:31 | JE |
| 1,2-Dibromoethane | BRL | 50 | | ug/L | 216305 | 10 | 11/25/2015 12:31 | JE |
| 1,2-Dichlorobenzene | BRL | 50 | | ug/L | 216305 | 10 | 11/25/2015 12:31 | JE |
| 1,2-Dichloroethane | BRL | 50 | | ug/L | 216305 | 10 | 11/25/2015 12:31 | JE |
| 1,2-Dichloropropane | BRL | 50 | | ug/L | 216305 | 10 | 11/25/2015 12:31 | JE |
| 1,3-Dichlorobenzene | BRL | 50 | | ug/L | 216305 | 10 | 11/25/2015 12:31 | JE |
| 1,4-Dichlorobenzene | BRL | 50 | | ug/L | 216305 | 10 | 11/25/2015 12:31 | JE |
| 2-Butanone | BRL | 500 | | ug/L | 216305 | 10 | 11/25/2015 12:31 | JE |
| 2-Hexanone | BRL | 100 | | ug/L | 216305 | 10 | 11/25/2015 12:31 | JE |
| 4-Methyl-2-pentanone | BRL | 100 | | ug/L | 216305 | 10 | 11/25/2015 12:31 | JE |
| Acetone | BRL | 500 | | ug/L | 216305 | 10 | 11/25/2015 12:31 | JE |
| Benzene | BRL | 50 | | ug/L | 216305 | 10 | 11/25/2015 12:31 | JE |
| Bromodichloromethane | BRL | 50 | | ug/L | 216305 | 10 | 11/25/2015 12:31 | JE |
| Bromoform | BRL | 50 | | ug/L | 216305 | 10 | 11/25/2015 12:31 | JE |
| Bromomethane | BRL | 50 | | ug/L | 216305 | 10 | 11/25/2015 12:31 | JE |
| Carbon disulfide | BRL | 50 | | ug/L | 216305 | 10 | 11/25/2015 12:31 | JE |
| Carbon tetrachloride | BRL | 50 | | ug/L | 216305 | 10 | 11/25/2015 12:31 | JE |
| Chlorobenzene | BRL | 50 | | ug/L | 216305 | 10 | 11/25/2015 12:31 | JE |
| Chloroethane | BRL | 100 | | ug/L | 216305 | 10 | 11/25/2015 12:31 | JE |
| Chloroform | BRL | 50 | | ug/L | 216305 | 10 | 11/25/2015 12:31 | JE |
| Chloromethane | BRL | 100 | | ug/L | 216305 | 10 | 11/25/2015 12:31 | JE |
| cis-1,2-Dichloroethene | 460 | 50 | | ug/L | 216305 | 10 | 11/25/2015 12:31 | JE |
| cis-1,3-Dichloropropene | BRL | 50 | | ug/L | 216305 | 10 | 11/25/2015 12:31 | JE |
| Cyclohexane | BRL | 50 | | ug/L | 216305 | 10 | 11/25/2015 12:31 | JE |
| Dibromochloromethane | BRL | 50 | | ug/L | 216305 | 10 | 11/25/2015 12:31 | JE |
| Dichlorodifluoromethane | BRL | 100 | | ug/L | 216305 | 10 | 11/25/2015 12:31 | JE |
| Ethylbenzene | BRL | 50 | | ug/L | 216305 | 10 | 11/25/2015 12:31 | JE |
| Freon-113 | BRL | 100 | | ug/L | 216305 | 10 | 11/25/2015 12:31 | JE |
| Isopropylbenzene | BRL | 50 | | ug/L | 216305 | 10 | 11/25/2015 12:31 | JE |
| m,p-Xylene | BRL | 50 | | ug/L | 216305 | 10 | 11/25/2015 12:31 | JE |
| Methyl acetate | BRL | 50 | | ug/L | 216305 | 10 | 11/25/2015 12:31 | JE |
| Methyl tert-butyl ether | BRL | 50 | | ug/L | 216305 | 10 | 11/25/2015 12:31 | JE |
| Methylcyclohexane | BRL | 50 | | ug/L | 216305 | 10 | 11/25/2015 12:31 | JE |
| Methylene chloride | BRL | 50 | | ug/L | 216305 | 10 | 11/25/2015 12:31 | JE |
| o-Xylene | BRL | 50 | | ug/L | 216305 | 10 | 11/25/2015 12:31 | 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

**Analytical Environmental Services, Inc** **Date:** 2-Dec-15

| | | | |
|---|---|---|---|
| **Client:** | Arcadis | **Client Sample ID:** | MW-32 (11172015) |
| **Project Name:** | Lafarge East Point | **Collection Date:** | 11/17/2015 12:00:00 PM |
| **Lab ID:** | 1511H11-014 | **Matrix:** | Groundwater |

| Analyses | Result | Reporting Limit | Qual | Units | BatchID | Dilution Factor | Date Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|
| **TCL VOLATILE ORGANICS SW8260B** | | | | **(SW5030B)** | | | | |
| Styrene | BRL | 50 | | ug/L | 216305 | 10 | 11/25/2015 12:31 | JE |
| Tetrachloroethene | BRL | 50 | | ug/L | 216305 | 10 | 11/25/2015 12:31 | JE |
| Toluene | BRL | 50 | | ug/L | 216305 | 10 | 11/25/2015 12:31 | JE |
| trans-1,2-Dichloroethene | BRL | 50 | | ug/L | 216305 | 10 | 11/25/2015 12:31 | JE |
| trans-1,3-Dichloropropene | BRL | 50 | | ug/L | 216305 | 10 | 11/25/2015 12:31 | JE |
| Trichloroethene | 26000 | 2500 | | ug/L | 216305 | 500 | 11/24/2015 21:01 | CH |
| Trichlorofluoromethane | BRL | 50 | | ug/L | 216305 | 10 | 11/25/2015 12:31 | JE |
| Vinyl chloride | BRL | 20 | | ug/L | 216305 | 10 | 11/25/2015 12:31 | JE |
| Surr: 4-Bromofluorobenzene | 86.7 | 70.7-125 | | %REC | 216305 | 500 | 11/24/2015 21:01 | CH |
| Surr: 4-Bromofluorobenzene | 99.5 | 70.7-125 | | %REC | 216305 | 10 | 11/25/2015 12:31 | JE |
| Surr: Dibromofluoromethane | 91.8 | 82.2-120 | | %REC | 216305 | 500 | 11/24/2015 21:01 | CH |
| Surr: Dibromofluoromethane | 110 | 82.2-120 | | %REC | 216305 | 10 | 11/25/2015 12:31 | JE |
| Surr: Toluene-d8 | 97.8 | 81.8-120 | | %REC | 216305 | 500 | 11/24/2015 21:01 | CH |
| Surr: Toluene-d8 | 96 | 81.8-120 | | %REC | 216305 | 10 | 11/25/2015 12:31 | JE |

**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:** 2-Dec-15

| | | | |
|---|---|---|---|
| **Client:** | Arcadis | **Client Sample ID:** | RW-3 (11172015) |
| **Project Name:** | Lafarge East Point | **Collection Date:** | 11/17/2015 2:20:00 PM |
| **Lab ID:** | 1511H11-015 | **Matrix:** | Groundwater |

| Analyses | Result | Reporting Limit | Qual | Units | BatchID | Dilution Factor | Date Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|
| **TCL VOLATILE ORGANICS SW8260B** | | | | **(SW5030B)** | | | | |
| 1,1,1-Trichloroethane | BRL | 5.0 | | ug/L | 216305 | 1 | 11/24/2015 21:53 | CH |
| 1,1,2,2-Tetrachloroethane | BRL | 5.0 | | ug/L | 216305 | 1 | 11/24/2015 21:53 | CH |
| 1,1,2-Trichloroethane | BRL | 5.0 | | ug/L | 216305 | 1 | 11/24/2015 21:53 | CH |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 216305 | 1 | 11/24/2015 21:53 | CH |
| 1,1-Dichloroethene | BRL | 5.0 | | ug/L | 216305 | 1 | 11/24/2015 21:53 | CH |
| 1,2,4-Trichlorobenzene | BRL | 5.0 | | ug/L | 216305 | 1 | 11/24/2015 21:53 | CH |
| 1,2-Dibromo-3-chloropropane | BRL | 5.0 | | ug/L | 216305 | 1 | 11/24/2015 21:53 | CH |
| 1,2-Dibromoethane | BRL | 5.0 | | ug/L | 216305 | 1 | 11/24/2015 21:53 | CH |
| 1,2-Dichlorobenzene | BRL | 5.0 | | ug/L | 216305 | 1 | 11/24/2015 21:53 | CH |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 216305 | 1 | 11/24/2015 21:53 | CH |
| 1,2-Dichloropropane | BRL | 5.0 | | ug/L | 216305 | 1 | 11/24/2015 21:53 | CH |
| 1,3-Dichlorobenzene | BRL | 5.0 | | ug/L | 216305 | 1 | 11/24/2015 21:53 | CH |
| 1,4-Dichlorobenzene | BRL | 5.0 | | ug/L | 216305 | 1 | 11/24/2015 21:53 | CH |
| 2-Butanone | BRL | 50 | | ug/L | 216305 | 1 | 11/24/2015 21:53 | CH |
| 2-Hexanone | BRL | 10 | | ug/L | 216305 | 1 | 11/24/2015 21:53 | CH |
| 4-Methyl-2-pentanone | BRL | 10 | | ug/L | 216305 | 1 | 11/24/2015 21:53 | CH |
| Acetone | BRL | 50 | | ug/L | 216305 | 1 | 11/24/2015 21:53 | CH |
| Benzene | BRL | 5.0 | | ug/L | 216305 | 1 | 11/24/2015 21:53 | CH |
| Bromodichloromethane | BRL | 5.0 | | ug/L | 216305 | 1 | 11/24/2015 21:53 | CH |
| Bromoform | BRL | 5.0 | | ug/L | 216305 | 1 | 11/24/2015 21:53 | CH |
| Bromomethane | BRL | 5.0 | | ug/L | 216305 | 1 | 11/24/2015 21:53 | CH |
| Carbon disulfide | BRL | 5.0 | | ug/L | 216305 | 1 | 11/24/2015 21:53 | CH |
| Carbon tetrachloride | BRL | 5.0 | | ug/L | 216305 | 1 | 11/24/2015 21:53 | CH |
| Chlorobenzene | BRL | 5.0 | | ug/L | 216305 | 1 | 11/24/2015 21:53 | CH |
| Chloroethane | BRL | 10 | | ug/L | 216305 | 1 | 11/24/2015 21:53 | CH |
| Chloroform | BRL | 5.0 | | ug/L | 216305 | 1 | 11/24/2015 21:53 | CH |
| Chloromethane | BRL | 10 | | ug/L | 216305 | 1 | 11/24/2015 21:53 | CH |
| cis-1,2-Dichloroethene | 28 | 5.0 | | ug/L | 216305 | 1 | 11/24/2015 21:53 | CH |
| cis-1,3-Dichloropropene | BRL | 5.0 | | ug/L | 216305 | 1 | 11/24/2015 21:53 | CH |
| Cyclohexane | BRL | 5.0 | | ug/L | 216305 | 1 | 11/24/2015 21:53 | CH |
| Dibromochloromethane | BRL | 5.0 | | ug/L | 216305 | 1 | 11/24/2015 21:53 | CH |
| Dichlorodifluoromethane | BRL | 10 | | ug/L | 216305 | 1 | 11/24/2015 21:53 | CH |
| Ethylbenzene | BRL | 5.0 | | ug/L | 216305 | 1 | 11/24/2015 21:53 | CH |
| Freon-113 | BRL | 10 | | ug/L | 216305 | 1 | 11/24/2015 21:53 | CH |
| Isopropylbenzene | BRL | 5.0 | | ug/L | 216305 | 1 | 11/24/2015 21:53 | CH |
| m,p-Xylene | BRL | 5.0 | | ug/L | 216305 | 1 | 11/24/2015 21:53 | CH |
| Methyl acetate | BRL | 5.0 | | ug/L | 216305 | 1 | 11/24/2015 21:53 | CH |
| Methyl tert-butyl ether | BRL | 5.0 | | ug/L | 216305 | 1 | 11/24/2015 21:53 | CH |
| Methylcyclohexane | BRL | 5.0 | | ug/L | 216305 | 1 | 11/24/2015 21:53 | CH |
| Methylene chloride | BRL | 5.0 | | ug/L | 216305 | 1 | 11/24/2015 21:53 | CH |
| o-Xylene | BRL | 5.0 | | ug/L | 216305 | 1 | 11/24/2015 21:53 | CH |

**Qualifiers:**

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike 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-15

| | | | |
|---|---|---|---|
| **Client:** | Arcadis | **Client Sample ID:** | RW-3 (11172015) |
| **Project Name:** | Lafarge East Point | **Collection Date:** | 11/17/2015 2:20:00 PM |
| **Lab ID:** | 1511H11-015 | **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 | 216305 | 1 | 11/24/2015 21:53 | CH |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 216305 | 1 | 11/24/2015 21:53 | CH |
| Toluene | BRL | 5.0 | | ug/L | 216305 | 1 | 11/24/2015 21:53 | CH |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 216305 | 1 | 11/24/2015 21:53 | CH |
| trans-1,3-Dichloropropene | BRL | 5.0 | | ug/L | 216305 | 1 | 11/24/2015 21:53 | CH |
| Trichloroethene | 5.6 | 5.0 | | ug/L | 216305 | 1 | 11/24/2015 21:53 | CH |
| Trichlorofluoromethane | BRL | 5.0 | | ug/L | 216305 | 1 | 11/24/2015 21:53 | CH |
| Vinyl chloride | 4.9 | 2.0 | | ug/L | 216305 | 1 | 11/24/2015 21:53 | CH |
| Surr: 4-Bromofluorobenzene | 89.3 | 70.7-125 | | %REC | 216305 | 1 | 11/24/2015 21:53 | CH |
| Surr: Dibromofluoromethane | 92 | 82.2-120 | | %REC | 216305 | 1 | 11/24/2015 21:53 | CH |
| Surr: Toluene-d8 | 102 | 81.8-120 | | %REC | 216305 | 1 | 11/24/2015 21:53 | CH |

**Qualifiers:**

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike 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-15

| | | | |
|---|---|---|---|
| **Client:** | Arcadis | **Client Sample ID:** | MW-7 (11172015) |
| **Project Name:** | Lafarge East Point | **Collection Date:** | 11/17/2015 12:45:00 PM |
| **Lab ID:** | 1511H11-016 | **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 | 216305 | 1 | 11/25/2015 12:55 | JE |
| 1,1,2,2-Tetrachloroethane | BRL | 5.0 | | ug/L | 216305 | 1 | 11/25/2015 12:55 | JE |
| 1,1,2-Trichloroethane | BRL | 5.0 | | ug/L | 216305 | 1 | 11/25/2015 12:55 | JE |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 216305 | 1 | 11/25/2015 12:55 | JE |
| 1,1-Dichloroethene | BRL | 5.0 | | ug/L | 216305 | 1 | 11/25/2015 12:55 | JE |
| 1,2,4-Trichlorobenzene | BRL | 5.0 | | ug/L | 216305 | 1 | 11/25/2015 12:55 | JE |
| 1,2-Dibromo-3-chloropropane | BRL | 5.0 | | ug/L | 216305 | 1 | 11/25/2015 12:55 | JE |
| 1,2-Dibromoethane | BRL | 5.0 | | ug/L | 216305 | 1 | 11/25/2015 12:55 | JE |
| 1,2-Dichlorobenzene | BRL | 5.0 | | ug/L | 216305 | 1 | 11/25/2015 12:55 | JE |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 216305 | 1 | 11/25/2015 12:55 | JE |
| 1,2-Dichloropropane | BRL | 5.0 | | ug/L | 216305 | 1 | 11/25/2015 12:55 | JE |
| 1,3-Dichlorobenzene | BRL | 5.0 | | ug/L | 216305 | 1 | 11/25/2015 12:55 | JE |
| 1,4-Dichlorobenzene | BRL | 5.0 | | ug/L | 216305 | 1 | 11/25/2015 12:55 | JE |
| 2-Butanone | 340 | 50 | | ug/L | 216305 | 1 | 11/25/2015 12:55 | JE |
| 2-Hexanone | BRL | 10 | | ug/L | 216305 | 1 | 11/25/2015 12:55 | JE |
| 4-Methyl-2-pentanone | BRL | 10 | | ug/L | 216305 | 1 | 11/25/2015 12:55 | JE |
| Acetone | BRL | 50 | | ug/L | 216305 | 1 | 11/25/2015 12:55 | JE |
| Benzene | BRL | 5.0 | | ug/L | 216305 | 1 | 11/25/2015 12:55 | JE |
| Bromodichloromethane | BRL | 5.0 | | ug/L | 216305 | 1 | 11/25/2015 12:55 | JE |
| Bromoform | BRL | 5.0 | | ug/L | 216305 | 1 | 11/25/2015 12:55 | JE |
| Bromomethane | BRL | 5.0 | | ug/L | 216305 | 1 | 11/25/2015 12:55 | JE |
| Carbon disulfide | BRL | 5.0 | | ug/L | 216305 | 1 | 11/25/2015 12:55 | JE |
| Carbon tetrachloride | BRL | 5.0 | | ug/L | 216305 | 1 | 11/25/2015 12:55 | JE |
| Chlorobenzene | BRL | 5.0 | | ug/L | 216305 | 1 | 11/25/2015 12:55 | JE |
| Chloroethane | BRL | 10 | | ug/L | 216305 | 1 | 11/25/2015 12:55 | JE |
| Chloroform | BRL | 5.0 | | ug/L | 216305 | 1 | 11/25/2015 12:55 | JE |
| Chloromethane | BRL | 10 | | ug/L | 216305 | 1 | 11/25/2015 12:55 | JE |
| cis-1,2-Dichloroethene | 860 | 500 | | ug/L | 216305 | 100 | 11/24/2015 21:27 | CH |
| cis-1,3-Dichloropropene | BRL | 5.0 | | ug/L | 216305 | 1 | 11/25/2015 12:55 | JE |
| Cyclohexane | BRL | 5.0 | | ug/L | 216305 | 1 | 11/25/2015 12:55 | JE |
| Dibromochloromethane | BRL | 5.0 | | ug/L | 216305 | 1 | 11/25/2015 12:55 | JE |
| Dichlorodifluoromethane | BRL | 10 | | ug/L | 216305 | 1 | 11/25/2015 12:55 | JE |
| Ethylbenzene | 22 | 5.0 | | ug/L | 216305 | 1 | 11/25/2015 12:55 | JE |
| Freon-113 | BRL | 10 | | ug/L | 216305 | 1 | 11/25/2015 12:55 | JE |
| Isopropylbenzene | BRL | 5.0 | | ug/L | 216305 | 1 | 11/25/2015 12:55 | JE |
| m,p-Xylene | 120 | 5.0 | | ug/L | 216305 | 1 | 11/25/2015 12:55 | JE |
| Methyl acetate | BRL | 5.0 | | ug/L | 216305 | 1 | 11/25/2015 12:55 | JE |
| Methyl tert-butyl ether | BRL | 5.0 | | ug/L | 216305 | 1 | 11/25/2015 12:55 | JE |
| Methylcyclohexane | 22 | 5.0 | | ug/L | 216305 | 1 | 11/25/2015 12:55 | JE |
| Methylene chloride | BRL | 5.0 | | ug/L | 216305 | 1 | 11/25/2015 12:55 | JE |
| o-Xylene | 42 | 5.0 | | ug/L | 216305 | 1 | 11/25/2015 12:55 | 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:** 2-Dec-15

| | | | |
|---|---|---|---|
| **Client:** | Arcadis | **Client Sample ID:** | MW-7 (11172015) |
| **Project Name:** | Lafarge East Point | **Collection Date:** | 11/17/2015 12:45:00 PM |
| **Lab ID:** | 1511H11-016 | **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 | 216305 | 1 | 11/25/2015 12:55 | JE |
| Tetrachloroethene | 5.0 | 5.0 | | ug/L | 216305 | 1 | 11/25/2015 12:55 | JE |
| Toluene | 100 | 50 | | ug/L | 216305 | 10 | 11/26/2015 04:59 | CH |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 216305 | 1 | 11/25/2015 12:55 | JE |
| trans-1,3-Dichloropropene | BRL | 5.0 | | ug/L | 216305 | 1 | 11/25/2015 12:55 | JE |
| Trichloroethene | 10000 | 500 | | ug/L | 216305 | 100 | 11/24/2015 21:27 | CH |
| Trichlorofluoromethane | BRL | 5.0 | | ug/L | 216305 | 1 | 11/25/2015 12:55 | JE |
| Vinyl chloride | BRL | 2.0 | | ug/L | 216305 | 1 | 11/25/2015 12:55 | JE |
| Surr: 4-Bromofluorobenzene | 84.2 | 70.7-125 | | %REC | 216305 | 10 | 11/26/2015 04:59 | CH |
| Surr: 4-Bromofluorobenzene | 85.2 | 70.7-125 | | %REC | 216305 | 100 | 11/24/2015 21:27 | CH |
| Surr: 4-Bromofluorobenzene | 98.1 | 70.7-125 | | %REC | 216305 | 1 | 11/25/2015 12:55 | JE |
| Surr: Dibromofluoromethane | 92 | 82.2-120 | | %REC | 216305 | 100 | 11/24/2015 21:27 | CH |
| Surr: Dibromofluoromethane | 101 | 82.2-120 | | %REC | 216305 | 10 | 11/26/2015 04:59 | CH |
| Surr: Dibromofluoromethane | 108 | 82.2-120 | | %REC | 216305 | 1 | 11/25/2015 12:55 | JE |
| Surr: Toluene-d8 | 97 | 81.8-120 | | %REC | 216305 | 100 | 11/24/2015 21:27 | CH |
| Surr: Toluene-d8 | 99.6 | 81.8-120 | | %REC | 216305 | 1 | 11/25/2015 12:55 | JE |
| Surr: Toluene-d8 | 102 | 81.8-120 | | %REC | 216305 | 10 | 11/26/2015 04:59 | CH |

**Qualifiers:**

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike 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-15

| | | | |
|---|---|---|---|
| **Client:** | Arcadis | **Client Sample ID:** | MW-14 (11172015) |
| **Project Name:** | Lafarge East Point | **Collection Date:** | 11/17/2015 3:15:00 PM |
| **Lab ID:** | 1511H11-017 | **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 | 216305 | 1 | 11/23/2015 23:14 | CH |
| 1,1,2,2-Tetrachloroethane | BRL | 5.0 | | ug/L | 216305 | 1 | 11/23/2015 23:14 | CH |
| 1,1,2-Trichloroethane | BRL | 5.0 | | ug/L | 216305 | 1 | 11/23/2015 23:14 | CH |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 216305 | 1 | 11/23/2015 23:14 | CH |
| 1,1-Dichloroethene | BRL | 5.0 | | ug/L | 216305 | 1 | 11/23/2015 23:14 | CH |
| 1,2,4-Trichlorobenzene | BRL | 5.0 | | ug/L | 216305 | 1 | 11/23/2015 23:14 | CH |
| 1,2-Dibromo-3-chloropropane | BRL | 5.0 | | ug/L | 216305 | 1 | 11/23/2015 23:14 | CH |
| 1,2-Dibromoethane | BRL | 5.0 | | ug/L | 216305 | 1 | 11/23/2015 23:14 | CH |
| 1,2-Dichlorobenzene | BRL | 5.0 | | ug/L | 216305 | 1 | 11/23/2015 23:14 | CH |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 216305 | 1 | 11/23/2015 23:14 | CH |
| 1,2-Dichloropropane | BRL | 5.0 | | ug/L | 216305 | 1 | 11/23/2015 23:14 | CH |
| 1,3-Dichlorobenzene | BRL | 5.0 | | ug/L | 216305 | 1 | 11/23/2015 23:14 | CH |
| 1,4-Dichlorobenzene | BRL | 5.0 | | ug/L | 216305 | 1 | 11/23/2015 23:14 | CH |
| 2-Butanone | BRL | 50 | | ug/L | 216305 | 1 | 11/23/2015 23:14 | CH |
| 2-Hexanone | BRL | 10 | | ug/L | 216305 | 1 | 11/23/2015 23:14 | CH |
| 4-Methyl-2-pentanone | BRL | 10 | | ug/L | 216305 | 1 | 11/23/2015 23:14 | CH |
| Acetone | BRL | 50 | | ug/L | 216305 | 1 | 11/23/2015 23:14 | CH |
| Benzene | BRL | 5.0 | | ug/L | 216305 | 1 | 11/23/2015 23:14 | CH |
| Bromodichloromethane | BRL | 5.0 | | ug/L | 216305 | 1 | 11/23/2015 23:14 | CH |
| Bromoform | BRL | 5.0 | | ug/L | 216305 | 1 | 11/23/2015 23:14 | CH |
| Bromomethane | BRL | 5.0 | | ug/L | 216305 | 1 | 11/23/2015 23:14 | CH |
| Carbon disulfide | BRL | 5.0 | | ug/L | 216305 | 1 | 11/23/2015 23:14 | CH |
| Carbon tetrachloride | BRL | 5.0 | | ug/L | 216305 | 1 | 11/23/2015 23:14 | CH |
| Chlorobenzene | BRL | 5.0 | | ug/L | 216305 | 1 | 11/23/2015 23:14 | CH |
| Chloroethane | BRL | 10 | | ug/L | 216305 | 1 | 11/23/2015 23:14 | CH |
| Chloroform | BRL | 5.0 | | ug/L | 216305 | 1 | 11/23/2015 23:14 | CH |
| Chloromethane | BRL | 10 | | ug/L | 216305 | 1 | 11/23/2015 23:14 | CH |
| cis-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 216305 | 1 | 11/23/2015 23:14 | CH |
| cis-1,3-Dichloropropene | BRL | 5.0 | | ug/L | 216305 | 1 | 11/23/2015 23:14 | CH |
| Cyclohexane | BRL | 5.0 | | ug/L | 216305 | 1 | 11/23/2015 23:14 | CH |
| Dibromochloromethane | BRL | 5.0 | | ug/L | 216305 | 1 | 11/23/2015 23:14 | CH |
| Dichlorodifluoromethane | BRL | 10 | | ug/L | 216305 | 1 | 11/23/2015 23:14 | CH |
| Ethylbenzene | BRL | 5.0 | | ug/L | 216305 | 1 | 11/23/2015 23:14 | CH |
| Freon-113 | BRL | 10 | | ug/L | 216305 | 1 | 11/23/2015 23:14 | CH |
| Isopropylbenzene | BRL | 5.0 | | ug/L | 216305 | 1 | 11/23/2015 23:14 | CH |
| m,p-Xylene | BRL | 5.0 | | ug/L | 216305 | 1 | 11/23/2015 23:14 | CH |
| Methyl acetate | BRL | 5.0 | | ug/L | 216305 | 1 | 11/23/2015 23:14 | CH |
| Methyl tert-butyl ether | BRL | 5.0 | | ug/L | 216305 | 1 | 11/23/2015 23:14 | CH |
| Methylcyclohexane | BRL | 5.0 | | ug/L | 216305 | 1 | 11/23/2015 23:14 | CH |
| Methylene chloride | BRL | 5.0 | | ug/L | 216305 | 1 | 11/23/2015 23:14 | CH |
| o-Xylene | BRL | 5.0 | | ug/L | 216305 | 1 | 11/23/2015 23:14 | CH |

**Qualifiers:**

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike 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-15

| | | | |
|---|---|---|---|
| **Client:** | Arcadis | **Client Sample ID:** | MW-14 (11172015) |
| **Project Name:** | Lafarge East Point | **Collection Date:** | 11/17/2015 3:15:00 PM |
| **Lab ID:** | 1511H11-017 | **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 | 216305 | 1 | 11/23/2015 23:14 | CH |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 216305 | 1 | 11/23/2015 23:14 | CH |
| Toluene | BRL | 5.0 | | ug/L | 216305 | 1 | 11/23/2015 23:14 | CH |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 216305 | 1 | 11/23/2015 23:14 | CH |
| trans-1,3-Dichloropropene | BRL | 5.0 | | ug/L | 216305 | 1 | 11/23/2015 23:14 | CH |
| Trichloroethene | BRL | 5.0 | | ug/L | 216305 | 1 | 11/23/2015 23:14 | CH |
| Trichlorofluoromethane | BRL | 5.0 | | ug/L | 216305 | 1 | 11/23/2015 23:14 | CH |
| Vinyl chloride | BRL | 2.0 | | ug/L | 216305 | 1 | 11/23/2015 23:14 | CH |
| Surr: 4-Bromofluorobenzene | 89.8 | 70.7-125 | | %REC | 216305 | 1 | 11/23/2015 23:14 | CH |
| Surr: Dibromofluoromethane | 91 | 82.2-120 | | %REC | 216305 | 1 | 11/23/2015 23:14 | CH |
| Surr: Toluene-d8 | 94.1 | 81.8-120 | | %REC | 216305 | 1 | 11/23/2015 23:14 | CH |

**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:** 2-Dec-15

| | | | |
|---|---|---|---|
| **Client:** | Arcadis | **Client Sample ID:** | DUP-03 (11172015) |
| **Project Name:** | Lafarge East Point | **Collection Date:** | 11/17/2015 |
| **Lab ID:** | 1511H11-018 | **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 | 216305 | 1 | 11/23/2015 23:40 | CH |
| 1,1,2,2-Tetrachloroethane | BRL | 5.0 | | ug/L | 216305 | 1 | 11/23/2015 23:40 | CH |
| 1,1,2-Trichloroethane | BRL | 5.0 | | ug/L | 216305 | 1 | 11/23/2015 23:40 | CH |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 216305 | 1 | 11/23/2015 23:40 | CH |
| 1,1-Dichloroethene | BRL | 5.0 | | ug/L | 216305 | 1 | 11/23/2015 23:40 | CH |
| 1,2,4-Trichlorobenzene | BRL | 5.0 | | ug/L | 216305 | 1 | 11/23/2015 23:40 | CH |
| 1,2-Dibromo-3-chloropropane | BRL | 5.0 | | ug/L | 216305 | 1 | 11/23/2015 23:40 | CH |
| 1,2-Dibromoethane | BRL | 5.0 | | ug/L | 216305 | 1 | 11/23/2015 23:40 | CH |
| 1,2-Dichlorobenzene | BRL | 5.0 | | ug/L | 216305 | 1 | 11/23/2015 23:40 | CH |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 216305 | 1 | 11/23/2015 23:40 | CH |
| 1,2-Dichloropropane | BRL | 5.0 | | ug/L | 216305 | 1 | 11/23/2015 23:40 | CH |
| 1,3-Dichlorobenzene | BRL | 5.0 | | ug/L | 216305 | 1 | 11/23/2015 23:40 | CH |
| 1,4-Dichlorobenzene | BRL | 5.0 | | ug/L | 216305 | 1 | 11/23/2015 23:40 | CH |
| 2-Butanone | BRL | 50 | | ug/L | 216305 | 1 | 11/23/2015 23:40 | CH |
| 2-Hexanone | BRL | 10 | | ug/L | 216305 | 1 | 11/23/2015 23:40 | CH |
| 4-Methyl-2-pentanone | BRL | 10 | | ug/L | 216305 | 1 | 11/23/2015 23:40 | CH |
| Acetone | BRL | 50 | | ug/L | 216305 | 1 | 11/23/2015 23:40 | CH |
| Benzene | BRL | 5.0 | | ug/L | 216305 | 1 | 11/23/2015 23:40 | CH |
| Bromodichloromethane | BRL | 5.0 | | ug/L | 216305 | 1 | 11/23/2015 23:40 | CH |
| Bromoform | BRL | 5.0 | | ug/L | 216305 | 1 | 11/23/2015 23:40 | CH |
| Bromomethane | BRL | 5.0 | | ug/L | 216305 | 1 | 11/23/2015 23:40 | CH |
| Carbon disulfide | BRL | 5.0 | | ug/L | 216305 | 1 | 11/23/2015 23:40 | CH |
| Carbon tetrachloride | BRL | 5.0 | | ug/L | 216305 | 1 | 11/23/2015 23:40 | CH |
| Chlorobenzene | BRL | 5.0 | | ug/L | 216305 | 1 | 11/23/2015 23:40 | CH |
| Chloroethane | BRL | 10 | | ug/L | 216305 | 1 | 11/23/2015 23:40 | CH |
| Chloroform | BRL | 5.0 | | ug/L | 216305 | 1 | 11/23/2015 23:40 | CH |
| Chloromethane | BRL | 10 | | ug/L | 216305 | 1 | 11/23/2015 23:40 | CH |
| cis-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 216305 | 1 | 11/23/2015 23:40 | CH |
| cis-1,3-Dichloropropene | BRL | 5.0 | | ug/L | 216305 | 1 | 11/23/2015 23:40 | CH |
| Cyclohexane | BRL | 5.0 | | ug/L | 216305 | 1 | 11/23/2015 23:40 | CH |
| Dibromochloromethane | BRL | 5.0 | | ug/L | 216305 | 1 | 11/23/2015 23:40 | CH |
| Dichlorodifluoromethane | BRL | 10 | | ug/L | 216305 | 1 | 11/23/2015 23:40 | CH |
| Ethylbenzene | BRL | 5.0 | | ug/L | 216305 | 1 | 11/23/2015 23:40 | CH |
| Freon-113 | BRL | 10 | | ug/L | 216305 | 1 | 11/23/2015 23:40 | CH |
| Isopropylbenzene | BRL | 5.0 | | ug/L | 216305 | 1 | 11/23/2015 23:40 | CH |
| m,p-Xylene | BRL | 5.0 | | ug/L | 216305 | 1 | 11/23/2015 23:40 | CH |
| Methyl acetate | BRL | 5.0 | | ug/L | 216305 | 1 | 11/23/2015 23:40 | CH |
| Methyl tert-butyl ether | BRL | 5.0 | | ug/L | 216305 | 1 | 11/23/2015 23:40 | CH |
| Methylcyclohexane | BRL | 5.0 | | ug/L | 216305 | 1 | 11/23/2015 23:40 | CH |
| Methylene chloride | BRL | 5.0 | | ug/L | 216305 | 1 | 11/23/2015 23:40 | CH |
| o-Xylene | BRL | 5.0 | | ug/L | 216305 | 1 | 11/23/2015 23:40 | CH |

**Qualifiers:**

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike 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-15

| | | | |
|---|---|---|---|
| **Client:** | Arcadis | **Client Sample ID:** | DUP-03 (11172015) |
| **Project Name:** | Lafarge East Point | **Collection Date:** | 11/17/2015 |
| **Lab ID:** | 1511H11-018 | **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 | 216305 | 1 | 11/23/2015 23:40 | CH |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 216305 | 1 | 11/23/2015 23:40 | CH |
| Toluene | BRL | 5.0 | | ug/L | 216305 | 1 | 11/23/2015 23:40 | CH |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 216305 | 1 | 11/23/2015 23:40 | CH |
| trans-1,3-Dichloropropene | BRL | 5.0 | | ug/L | 216305 | 1 | 11/23/2015 23:40 | CH |
| Trichloroethene | BRL | 5.0 | | ug/L | 216305 | 1 | 11/23/2015 23:40 | CH |
| Trichlorofluoromethane | BRL | 5.0 | | ug/L | 216305 | 1 | 11/23/2015 23:40 | CH |
| Vinyl chloride | BRL | 2.0 | | ug/L | 216305 | 1 | 11/23/2015 23:40 | CH |
| Surr: 4-Bromofluorobenzene | 91.2 | 70.7-125 | | %REC | 216305 | 1 | 11/23/2015 23:40 | CH |
| Surr: Dibromofluoromethane | 94.6 | 82.2-120 | | %REC | 216305 | 1 | 11/23/2015 23:40 | CH |
| Surr: Toluene-d8 | 102 | 81.8-120 | | %REC | 216305 | 1 | 11/23/2015 23:40 | CH |

**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:** 2-Dec-15

| | | | |
|---|---|---|---|
| **Client:** | Arcadis | **Client Sample ID:** | MW-19 (11172015) |
| **Project Name:** | Lafarge East Point | **Collection Date:** | 11/17/2015 4:00:00 PM |
| **Lab ID:** | 1511H11-019 | **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 | 216305 | 1 | 11/24/2015 00:06 | CH |
| 1,1,2,2-Tetrachloroethane | BRL | 5.0 | | ug/L | 216305 | 1 | 11/24/2015 00:06 | CH |
| 1,1,2-Trichloroethane | BRL | 5.0 | | ug/L | 216305 | 1 | 11/24/2015 00:06 | CH |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 216305 | 1 | 11/24/2015 00:06 | CH |
| 1,1-Dichloroethene | BRL | 5.0 | | ug/L | 216305 | 1 | 11/24/2015 00:06 | CH |
| 1,2,4-Trichlorobenzene | BRL | 5.0 | | ug/L | 216305 | 1 | 11/24/2015 00:06 | CH |
| 1,2-Dibromo-3-chloropropane | BRL | 5.0 | | ug/L | 216305 | 1 | 11/24/2015 00:06 | CH |
| 1,2-Dibromoethane | BRL | 5.0 | | ug/L | 216305 | 1 | 11/24/2015 00:06 | CH |
| 1,2-Dichlorobenzene | BRL | 5.0 | | ug/L | 216305 | 1 | 11/24/2015 00:06 | CH |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 216305 | 1 | 11/24/2015 00:06 | CH |
| 1,2-Dichloropropane | BRL | 5.0 | | ug/L | 216305 | 1 | 11/24/2015 00:06 | CH |
| 1,3-Dichlorobenzene | BRL | 5.0 | | ug/L | 216305 | 1 | 11/24/2015 00:06 | CH |
| 1,4-Dichlorobenzene | BRL | 5.0 | | ug/L | 216305 | 1 | 11/24/2015 00:06 | CH |
| 2-Butanone | BRL | 50 | | ug/L | 216305 | 1 | 11/24/2015 00:06 | CH |
| 2-Hexanone | BRL | 10 | | ug/L | 216305 | 1 | 11/24/2015 00:06 | CH |
| 4-Methyl-2-pentanone | BRL | 10 | | ug/L | 216305 | 1 | 11/24/2015 00:06 | CH |
| Acetone | BRL | 50 | | ug/L | 216305 | 1 | 11/24/2015 00:06 | CH |
| Benzene | BRL | 5.0 | | ug/L | 216305 | 1 | 11/24/2015 00:06 | CH |
| Bromodichloromethane | BRL | 5.0 | | ug/L | 216305 | 1 | 11/24/2015 00:06 | CH |
| Bromoform | BRL | 5.0 | | ug/L | 216305 | 1 | 11/24/2015 00:06 | CH |
| Bromomethane | BRL | 5.0 | | ug/L | 216305 | 1 | 11/24/2015 00:06 | CH |
| Carbon disulfide | BRL | 5.0 | | ug/L | 216305 | 1 | 11/24/2015 00:06 | CH |
| Carbon tetrachloride | BRL | 5.0 | | ug/L | 216305 | 1 | 11/24/2015 00:06 | CH |
| Chlorobenzene | BRL | 5.0 | | ug/L | 216305 | 1 | 11/24/2015 00:06 | CH |
| Chloroethane | BRL | 10 | | ug/L | 216305 | 1 | 11/24/2015 00:06 | CH |
| Chloroform | BRL | 5.0 | | ug/L | 216305 | 1 | 11/24/2015 00:06 | CH |
| Chloromethane | BRL | 10 | | ug/L | 216305 | 1 | 11/24/2015 00:06 | CH |
| cis-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 216305 | 1 | 11/24/2015 00:06 | CH |
| cis-1,3-Dichloropropene | BRL | 5.0 | | ug/L | 216305 | 1 | 11/24/2015 00:06 | CH |
| Cyclohexane | BRL | 5.0 | | ug/L | 216305 | 1 | 11/24/2015 00:06 | CH |
| Dibromochloromethane | BRL | 5.0 | | ug/L | 216305 | 1 | 11/24/2015 00:06 | CH |
| Dichlorodifluoromethane | BRL | 10 | | ug/L | 216305 | 1 | 11/24/2015 00:06 | CH |
| Ethylbenzene | BRL | 5.0 | | ug/L | 216305 | 1 | 11/24/2015 00:06 | CH |
| Freon-113 | BRL | 10 | | ug/L | 216305 | 1 | 11/24/2015 00:06 | CH |
| Isopropylbenzene | BRL | 5.0 | | ug/L | 216305 | 1 | 11/24/2015 00:06 | CH |
| m,p-Xylene | BRL | 5.0 | | ug/L | 216305 | 1 | 11/24/2015 00:06 | CH |
| Methyl acetate | BRL | 5.0 | | ug/L | 216305 | 1 | 11/24/2015 00:06 | CH |
| Methyl tert-butyl ether | BRL | 5.0 | | ug/L | 216305 | 1 | 11/24/2015 00:06 | CH |
| Methylcyclohexane | BRL | 5.0 | | ug/L | 216305 | 1 | 11/24/2015 00:06 | CH |
| Methylene chloride | BRL | 5.0 | | ug/L | 216305 | 1 | 11/24/2015 00:06 | CH |
| o-Xylene | BRL | 5.0 | | ug/L | 216305 | 1 | 11/24/2015 00:06 | CH |

**Qualifiers:**

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike 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-15

| | | | |
|---|---|---|---|
| **Client:** | Arcadis | **Client Sample ID:** | MW-19 (11172015) |
| **Project Name:** | Lafarge East Point | **Collection Date:** | 11/17/2015 4:00:00 PM |
| **Lab ID:** | 1511H11-019 | **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 | 216305 | 1 | 11/24/2015 00:06 | CH |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 216305 | 1 | 11/24/2015 00:06 | CH |
| Toluene | BRL | 5.0 | | ug/L | 216305 | 1 | 11/24/2015 00:06 | CH |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 216305 | 1 | 11/24/2015 00:06 | CH |
| trans-1,3-Dichloropropene | BRL | 5.0 | | ug/L | 216305 | 1 | 11/24/2015 00:06 | CH |
| Trichloroethene | BRL | 5.0 | | ug/L | 216305 | 1 | 11/24/2015 00:06 | CH |
| Trichlorofluoromethane | BRL | 5.0 | | ug/L | 216305 | 1 | 11/24/2015 00:06 | CH |
| Vinyl chloride | BRL | 2.0 | | ug/L | 216305 | 1 | 11/24/2015 00:06 | CH |
| Surr: 4-Bromofluorobenzene | 88.6 | 70.7-125 | | %REC | 216305 | 1 | 11/24/2015 00:06 | CH |
| Surr: Dibromofluoromethane | 94.7 | 82.2-120 | | %REC | 216305 | 1 | 11/24/2015 00:06 | CH |
| Surr: Toluene-d8 | 101 | 81.8-120 | | %REC | 216305 | 1 | 11/24/2015 00:06 | CH |

**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:** 2-Dec-15

| | | | |
|---|---|---|---|
| **Client:** | Arcadis | **Client Sample ID:** | MW-36 (11172015) |
| **Project Name:** | Lafarge East Point | **Collection Date:** | 11/17/2015 4:05:00 PM |
| **Lab ID:** | 1511H11-020 | **Matrix:** | Groundwater |

| Analyses | Result | Reporting Limit | Qual | Units | BatchID | Dilution Factor | Date Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|
| **TCL VOLATILE ORGANICS SW8260B** | | | | **(SW5030B)** | | | | |
| 1,1,1-Trichloroethane | BRL | 50 | | ug/L | 216305 | 10 | 11/25/2015 00:28 | CH |
| 1,1,2,2-Tetrachloroethane | BRL | 50 | | ug/L | 216305 | 10 | 11/25/2015 00:28 | CH |
| 1,1,2-Trichloroethane | BRL | 50 | | ug/L | 216305 | 10 | 11/25/2015 00:28 | CH |
| 1,1-Dichloroethane | BRL | 50 | | ug/L | 216305 | 10 | 11/25/2015 00:28 | CH |
| 1,1-Dichloroethene | 55 | 50 | | ug/L | 216305 | 10 | 11/25/2015 00:28 | CH |
| 1,2,4-Trichlorobenzene | BRL | 50 | | ug/L | 216305 | 10 | 11/25/2015 00:28 | CH |
| 1,2-Dibromo-3-chloropropane | BRL | 50 | | ug/L | 216305 | 10 | 11/25/2015 00:28 | CH |
| 1,2-Dibromoethane | BRL | 50 | | ug/L | 216305 | 10 | 11/25/2015 00:28 | CH |
| 1,2-Dichlorobenzene | BRL | 50 | | ug/L | 216305 | 10 | 11/25/2015 00:28 | CH |
| 1,2-Dichloroethane | BRL | 50 | | ug/L | 216305 | 10 | 11/25/2015 00:28 | CH |
| 1,2-Dichloropropane | BRL | 50 | | ug/L | 216305 | 10 | 11/25/2015 00:28 | CH |
| 1,3-Dichlorobenzene | BRL | 50 | | ug/L | 216305 | 10 | 11/25/2015 00:28 | CH |
| 1,4-Dichlorobenzene | BRL | 50 | | ug/L | 216305 | 10 | 11/25/2015 00:28 | CH |
| 2-Butanone | BRL | 500 | | ug/L | 216305 | 10 | 11/25/2015 00:28 | CH |
| 2-Hexanone | BRL | 100 | | ug/L | 216305 | 10 | 11/25/2015 00:28 | CH |
| 4-Methyl-2-pentanone | BRL | 100 | | ug/L | 216305 | 10 | 11/25/2015 00:28 | CH |
| Acetone | BRL | 500 | | ug/L | 216305 | 10 | 11/25/2015 00:28 | CH |
| Benzene | BRL | 50 | | ug/L | 216305 | 10 | 11/25/2015 00:28 | CH |
| Bromodichloromethane | BRL | 50 | | ug/L | 216305 | 10 | 11/25/2015 00:28 | CH |
| Bromoform | BRL | 50 | | ug/L | 216305 | 10 | 11/25/2015 00:28 | CH |
| Bromomethane | BRL | 50 | | ug/L | 216305 | 10 | 11/25/2015 00:28 | CH |
| Carbon disulfide | BRL | 50 | | ug/L | 216305 | 10 | 11/25/2015 00:28 | CH |
| Carbon tetrachloride | BRL | 50 | | ug/L | 216305 | 10 | 11/25/2015 00:28 | CH |
| Chlorobenzene | BRL | 50 | | ug/L | 216305 | 10 | 11/25/2015 00:28 | CH |
| Chloroethane | BRL | 100 | | ug/L | 216305 | 10 | 11/25/2015 00:28 | CH |
| Chloroform | BRL | 50 | | ug/L | 216305 | 10 | 11/25/2015 00:28 | CH |
| Chloromethane | BRL | 100 | | ug/L | 216305 | 10 | 11/25/2015 00:28 | CH |
| cis-1,2-Dichloroethene | 15000 | 500 | | ug/L | 216305 | 100 | 11/23/2015 21:31 | CH |
| cis-1,3-Dichloropropene | BRL | 50 | | ug/L | 216305 | 10 | 11/25/2015 00:28 | CH |
| Cyclohexane | BRL | 50 | | ug/L | 216305 | 10 | 11/25/2015 00:28 | CH |
| Dibromochloromethane | BRL | 50 | | ug/L | 216305 | 10 | 11/25/2015 00:28 | CH |
| Dichlorodifluoromethane | BRL | 100 | | ug/L | 216305 | 10 | 11/25/2015 00:28 | CH |
| Ethylbenzene | BRL | 50 | | ug/L | 216305 | 10 | 11/25/2015 00:28 | CH |
| Freon-113 | BRL | 100 | | ug/L | 216305 | 10 | 11/25/2015 00:28 | CH |
| Isopropylbenzene | BRL | 50 | | ug/L | 216305 | 10 | 11/25/2015 00:28 | CH |
| m,p-Xylene | BRL | 50 | | ug/L | 216305 | 10 | 11/25/2015 00:28 | CH |
| Methyl acetate | BRL | 50 | | ug/L | 216305 | 10 | 11/25/2015 00:28 | CH |
| Methyl tert-butyl ether | BRL | 50 | | ug/L | 216305 | 10 | 11/25/2015 00:28 | CH |
| Methylcyclohexane | BRL | 50 | | ug/L | 216305 | 10 | 11/25/2015 00:28 | CH |
| Methylene chloride | BRL | 50 | | ug/L | 216305 | 10 | 11/25/2015 00:28 | CH |
| o-Xylene | BRL | 50 | | ug/L | 216305 | 10 | 11/25/2015 00:28 | CH |

**Qualifiers:**

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike 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-15

| | | | |
|---|---|---|---|
| **Client:** | Arcadis | **Client Sample ID:** | MW-36 (11172015) |
| **Project Name:** | Lafarge East Point | **Collection Date:** | 11/17/2015 4:05:00 PM |
| **Lab ID:** | 1511H11-020 | **Matrix:** | Groundwater |

| Analyses | Result | Reporting Limit | Qual | Units | BatchID | Dilution Factor | Date Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|
| **TCL VOLATILE ORGANICS SW8260B** | | | | **(SW5030B)** | | | | |
| Styrene | BRL | 50 | | ug/L | 216305 | 10 | 11/25/2015 00:28 | CH |
| Tetrachloroethene | BRL | 50 | | ug/L | 216305 | 10 | 11/25/2015 00:28 | CH |
| Toluene | 56 | 50 | | ug/L | 216305 | 10 | 11/25/2015 00:28 | CH |
| trans-1,2-Dichloroethene | BRL | 50 | | ug/L | 216305 | 10 | 11/25/2015 00:28 | CH |
| trans-1,3-Dichloropropene | BRL | 50 | | ug/L | 216305 | 10 | 11/25/2015 00:28 | CH |
| Trichloroethene | 1200 | 50 | | ug/L | 216305 | 10 | 11/25/2015 00:28 | CH |
| Trichlorofluoromethane | BRL | 50 | | ug/L | 216305 | 10 | 11/25/2015 00:28 | CH |
| Vinyl chloride | 78 | 20 | | ug/L | 216305 | 10 | 11/25/2015 00:28 | CH |
| Surr: 4-Bromofluorobenzene | 86.8 | 70.7-125 | | %REC | 216305 | 10 | 11/25/2015 00:28 | CH |
| Surr: 4-Bromofluorobenzene | 88 | 70.7-125 | | %REC | 216305 | 100 | 11/23/2015 21:31 | CH |
| Surr: Dibromofluoromethane | 86.9 | 82.2-120 | | %REC | 216305 | 100 | 11/23/2015 21:31 | CH |
| Surr: Dibromofluoromethane | 94.3 | 82.2-120 | | %REC | 216305 | 10 | 11/25/2015 00:28 | CH |
| Surr: Toluene-d8 | 94.2 | 81.8-120 | | %REC | 216305 | 100 | 11/23/2015 21:31 | CH |
| Surr: Toluene-d8 | 99.6 | 81.8-120 | | %REC | 216305 | 10 | 11/25/2015 00:28 | CH |

**Qualifiers:**

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike 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-15

| | | | |
|---|---|---|---|
| **Client:** | Arcadis | **Client Sample ID:** | TRIP BLANK (11182015) |
| **Project Name:** | Lafarge East Point | **Collection Date:** | 11/18/2015 |
| **Lab ID:** | 1511H11-021 | **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 | 216164 | 1 | 11/20/2015 10:37 | JE |
| 1,1,2,2-Tetrachloroethane | BRL | 5.0 | | ug/L | 216164 | 1 | 11/20/2015 10:37 | JE |
| 1,1,2-Trichloroethane | BRL | 5.0 | | ug/L | 216164 | 1 | 11/20/2015 10:37 | JE |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 216164 | 1 | 11/20/2015 10:37 | JE |
| 1,1-Dichloroethene | BRL | 5.0 | | ug/L | 216164 | 1 | 11/20/2015 10:37 | JE |
| 1,2,4-Trichlorobenzene | BRL | 5.0 | | ug/L | 216164 | 1 | 11/20/2015 10:37 | JE |
| 1,2-Dibromo-3-chloropropane | BRL | 5.0 | | ug/L | 216164 | 1 | 11/20/2015 10:37 | JE |
| 1,2-Dibromoethane | BRL | 5.0 | | ug/L | 216164 | 1 | 11/20/2015 10:37 | JE |
| 1,2-Dichlorobenzene | BRL | 5.0 | | ug/L | 216164 | 1 | 11/20/2015 10:37 | JE |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 216164 | 1 | 11/20/2015 10:37 | JE |
| 1,2-Dichloropropane | BRL | 5.0 | | ug/L | 216164 | 1 | 11/20/2015 10:37 | JE |
| 1,3-Dichlorobenzene | BRL | 5.0 | | ug/L | 216164 | 1 | 11/20/2015 10:37 | JE |
| 1,4-Dichlorobenzene | BRL | 5.0 | | ug/L | 216164 | 1 | 11/20/2015 10:37 | JE |
| 2-Butanone | BRL | 50 | | ug/L | 216164 | 1 | 11/20/2015 10:37 | JE |
| 2-Hexanone | BRL | 10 | | ug/L | 216164 | 1 | 11/20/2015 10:37 | JE |
| 4-Methyl-2-pentanone | BRL | 10 | | ug/L | 216164 | 1 | 11/20/2015 10:37 | JE |
| Acetone | BRL | 50 | | ug/L | 216164 | 1 | 11/20/2015 10:37 | JE |
| Benzene | BRL | 5.0 | | ug/L | 216164 | 1 | 11/20/2015 10:37 | JE |
| Bromodichloromethane | BRL | 5.0 | | ug/L | 216164 | 1 | 11/20/2015 10:37 | JE |
| Bromoform | BRL | 5.0 | | ug/L | 216164 | 1 | 11/20/2015 10:37 | JE |
| Bromomethane | BRL | 5.0 | | ug/L | 216164 | 1 | 11/20/2015 10:37 | JE |
| Carbon disulfide | BRL | 5.0 | | ug/L | 216164 | 1 | 11/20/2015 10:37 | JE |
| Carbon tetrachloride | BRL | 5.0 | | ug/L | 216164 | 1 | 11/20/2015 10:37 | JE |
| Chlorobenzene | BRL | 5.0 | | ug/L | 216164 | 1 | 11/20/2015 10:37 | JE |
| Chloroethane | BRL | 10 | | ug/L | 216164 | 1 | 11/20/2015 10:37 | JE |
| Chloroform | BRL | 5.0 | | ug/L | 216164 | 1 | 11/20/2015 10:37 | JE |
| Chloromethane | BRL | 10 | | ug/L | 216164 | 1 | 11/20/2015 10:37 | JE |
| cis-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 216164 | 1 | 11/20/2015 10:37 | JE |
| cis-1,3-Dichloropropene | BRL | 5.0 | | ug/L | 216164 | 1 | 11/20/2015 10:37 | JE |
| Cyclohexane | BRL | 5.0 | | ug/L | 216164 | 1 | 11/20/2015 10:37 | JE |
| Dibromochloromethane | BRL | 5.0 | | ug/L | 216164 | 1 | 11/20/2015 10:37 | JE |
| Dichlorodifluoromethane | BRL | 10 | | ug/L | 216164 | 1 | 11/20/2015 10:37 | JE |
| Ethylbenzene | BRL | 5.0 | | ug/L | 216164 | 1 | 11/20/2015 10:37 | JE |
| Freon-113 | BRL | 10 | | ug/L | 216164 | 1 | 11/20/2015 10:37 | JE |
| Isopropylbenzene | BRL | 5.0 | | ug/L | 216164 | 1 | 11/20/2015 10:37 | JE |
| m,p-Xylene | BRL | 5.0 | | ug/L | 216164 | 1 | 11/20/2015 10:37 | JE |
| Methyl acetate | BRL | 5.0 | | ug/L | 216164 | 1 | 11/20/2015 10:37 | JE |
| Methyl tert-butyl ether | BRL | 5.0 | | ug/L | 216164 | 1 | 11/20/2015 10:37 | JE |
| Methylcyclohexane | BRL | 5.0 | | ug/L | 216164 | 1 | 11/20/2015 10:37 | JE |
| Methylene chloride | BRL | 5.0 | | ug/L | 216164 | 1 | 11/20/2015 10:37 | JE |
| o-Xylene | BRL | 5.0 | | ug/L | 216164 | 1 | 11/20/2015 10:37 | 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:** 2-Dec-15

| | | | |
|---|---|---|---|
| **Client:** | Arcadis | **Client Sample ID:** | TRIP BLANK (11182015) |
| **Project Name:** | Lafarge East Point | **Collection Date:** | 11/18/2015 |
| **Lab ID:** | 1511H11-021 | **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 | 216164 | 1 | 11/20/2015 10:37 | JE |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 216164 | 1 | 11/20/2015 10:37 | JE |
| Toluene | BRL | 5.0 | | ug/L | 216164 | 1 | 11/20/2015 10:37 | JE |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 216164 | 1 | 11/20/2015 10:37 | JE |
| trans-1,3-Dichloropropene | BRL | 5.0 | | ug/L | 216164 | 1 | 11/20/2015 10:37 | JE |
| Trichloroethene | BRL | 5.0 | | ug/L | 216164 | 1 | 11/20/2015 10:37 | JE |
| Trichlorofluoromethane | BRL | 5.0 | | ug/L | 216164 | 1 | 11/20/2015 10:37 | JE |
| Vinyl chloride | BRL | 2.0 | | ug/L | 216164 | 1 | 11/20/2015 10:37 | JE |
| Surr: 4-Bromofluorobenzene | 91.9 | 70.7-125 | | %REC | 216164 | 1 | 11/20/2015 10:37 | JE |
| Surr: Dibromofluoromethane | 97.2 | 82.2-120 | | %REC | 216164 | 1 | 11/20/2015 10:37 | JE |
| Surr: Toluene-d8 | 101 | 81.8-120 | | %REC | 216164 | 1 | 11/20/2015 10:37 | JE |

**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 1511411

Checklist completed by Miriam Sauer 11/18/2015
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 3.4°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 _____

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.

\\Aes_server\I\Sample Receipt\My Documents\COCs and pH Adjustment Sheet\Sample_Cooler_Recipt_Checklist_Rev1.rtf

**Client:** Arcadis
**Project Name:** Lafarge East Point
**Workorder:** 1511H11

# ANALYTICAL QC SUMMARY REPORT

**BatchID: 216288**

Sample ID: **MB-216288** Client ID: Units: **ug/L** Prep Date: **11/20/2015** Run No: **304878**
SampleType: **MBLK** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **216288** Analysis Date: **11/20/2015** Seq No: **6531419**

| 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:** 1511H11

# ANALYTICAL QC SUMMARY REPORT

**BatchID: 216288**

Sample ID: **MB-216288** Client ID: Units: **ug/L** Prep Date: **11/20/2015** Run No: **304878**
SampleType: **MBLK** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **216288** Analysis Date: **11/20/2015** Seq No: **6531419**

| 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 | 47.66 | 0 | 50.00 | | 95.3 | 70.7 | 125 | | | | |
| Surr: Dibromofluoromethane | 47.74 | 0 | 50.00 | | 95.5 | 82.2 | 120 | | | | |
| Surr: Toluene-d8 | 49.18 | 0 | 50.00 | | 98.4 | 81.8 | 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:** 1511H11

# ANALYTICAL QC SUMMARY REPORT

**BatchID: 216288**

Sample ID: **LCS-216288** Client ID: Units: **ug/L** Prep Date: **11/20/2015** Run No: **304904**
SampleType: **LCS** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **216288** Analysis Date: **11/20/2015** Seq No: **6531545**

| Analyte | Result | RPT Limit | SPK value | SPK Ref Val | %REC | Low Limit | High Limit | RPD Ref Val | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 61.55 | 5.0 | 50.00 | | 123 | 64.2 | 137 | | | | |
| Benzene | 56.47 | 5.0 | 50.00 | | 113 | 72.8 | 128 | | | | |
| Chlorobenzene | 52.87 | 5.0 | 50.00 | | 106 | 72.3 | 126 | | | | |
| Toluene | 55.58 | 5.0 | 50.00 | | 111 | 74.9 | 127 | | | | |
| Trichloroethene | 54.99 | 5.0 | 50.00 | | 110 | 70.5 | 134 | | | | |
| Surr: 4-Bromofluorobenzene | 45.95 | 0 | 50.00 | | 91.9 | 70.7 | 125 | | | | |
| Surr: Dibromofluoromethane | 48.50 | 0 | 50.00 | | 97.0 | 82.2 | 120 | | | | |
| Surr: Toluene-d8 | 48.86 | 0 | 50.00 | | 97.7 | 81.8 | 120 | | | | |

Sample ID: **1511H11-006AMS** Client ID: **MW-33 (11162015)** Units: **ug/L** Prep Date: **11/20/2015** Run No: **304878**
SampleType: **MS** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **216288** Analysis Date: **11/20/2015** Seq No: **6531428**

| Analyte | Result | RPT Limit | SPK value | SPK Ref Val | %REC | Low Limit | High Limit | RPD Ref Val | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 6103 | 500 | 5000 | | 122 | 60.5 | 156 | | | | |
| Benzene | 5206 | 500 | 5000 | | 104 | 70 | 135 | | | | |
| Chlorobenzene | 5093 | 500 | 5000 | | 102 | 70.5 | 132 | | | | |
| Toluene | 5208 | 500 | 5000 | | 104 | 70.5 | 137 | | | | |
| Trichloroethene | 5098 | 500 | 5000 | | 102 | 71.8 | 139 | | | | |
| Surr: 4-Bromofluorobenzene | 4735 | 0 | 5000 | | 94.7 | 70.7 | 125 | | | | |
| Surr: Dibromofluoromethane | 4761 | 0 | 5000 | | 95.2 | 82.2 | 120 | | | | |
| Surr: Toluene-d8 | 4953 | 0 | 5000 | | 99.1 | 81.8 | 120 | | | | |

Sample ID: **1511H11-006AMSD** Client ID: **MW-33 (11162015)** Units: **ug/L** Prep Date: **11/20/2015** Run No: **304878**
SampleType: **MSD** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **216288** Analysis Date: **11/20/2015** Seq No: **6531429**

| Analyte | Result | RPT Limit | SPK value | SPK Ref Val | %REC | Low Limit | High Limit | RPD Ref Val | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 5665 | 500 | 5000 | | 113 | 60.5 | 156 | 6103 | 7.44 | 20 | |
| Benzene | 5050 | 500 | 5000 | | 101 | 70 | 135 | 5206 | 3.04 | 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 | | |

**Client:** Arcadis
**Project Name:** Lafarge East Point
**Workorder:** 1511H11

# ANALYTICAL QC SUMMARY REPORT

**BatchID:** 216288

Sample ID: **1511H11-006AMSD** Client ID: **MW-33 (11162015)** Units: **ug/L** Prep Date: **11/20/2015** Run No: **304878**
SampleType: **MSD** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **216288** Analysis Date: **11/20/2015** Seq No: **6531429**

| Analyte | Result | RPT Limit | SPK value | SPK Ref Val | %REC | Low Limit | High Limit | RPD Ref Val | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chlorobenzene | 5040 | 500 | 5000 | | 101 | 70.5 | 132 | 5093 | 1.05 | 20 | |
| Toluene | 5041 | 500 | 5000 | | 101 | 70.5 | 137 | 5208 | 3.26 | 20 | |
| Trichloroethene | 4910 | 500 | 5000 | | 98.2 | 71.8 | 139 | 5098 | 3.76 | 20 | |
| Surr: 4-Bromofluorobenzene | 4811 | 0 | 5000 | | 96.2 | 70.7 | 125 | 4735 | 0 | 0 | |
| Surr: Dibromofluoromethane | 4675 | 0 | 5000 | | 93.5 | 82.2 | 120 | 4761 | 0 | 0 | |
| Surr: Toluene-d8 | 4969 | 0 | 5000 | | 99.4 | 81.8 | 120 | 4953 | 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:** 1511H11

# ANALYTICAL QC SUMMARY REPORT

**BatchID: 216305**

Sample ID: **MB-216305** Client ID: Units: **ug/L** Prep Date: **11/23/2015** Run No: **304953**
SampleType: **MBLK** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **216305** Analysis Date: **11/23/2015** Seq No: **6532209**

| 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:** 1511H11

# ANALYTICAL QC SUMMARY REPORT

**BatchID: 216305**

Sample ID: **MB-216305** Client ID: Units: **ug/L** Prep Date: **11/23/2015** Run No: **304953**
SampleType: **MBLK** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **216305** Analysis Date: **11/23/2015** Seq No: **6532209**

| 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 | 47.11 | 0 | 50.00 | | 94.2 | 70.7 | 125 | | | | |
| Surr: Dibromofluoromethane | 46.48 | 0 | 50.00 | | 93.0 | 82.2 | 120 | | | | |
| Surr: Toluene-d8 | 49.15 | 0 | 50.00 | | 98.3 | 81.8 | 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:** 1511H11

# ANALYTICAL QC SUMMARY REPORT

**BatchID: 216305**

Sample ID: **LCS-216305** Client ID: Units: **ug/L** Prep Date: **11/23/2015** Run No: **304953**
SampleType: **LCS** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **216305** Analysis Date: **11/23/2015** Seq No: **6532208**

| Analyte | Result | RPT Limit | SPK value | SPK Ref Val | %REC | Low Limit | High Limit | RPD Ref Val | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 65.71 | 5.0 | 50.00 | | 131 | 64.2 | 137 | | | | |
| Benzene | 53.93 | 5.0 | 50.00 | | 108 | 72.8 | 128 | | | | |
| Chlorobenzene | 51.47 | 5.0 | 50.00 | | 103 | 72.3 | 126 | | | | |
| Toluene | 53.14 | 5.0 | 50.00 | | 106 | 74.9 | 127 | | | | |
| Trichloroethene | 51.12 | 5.0 | 50.00 | | 102 | 70.5 | 134 | | | | |
| Surr: 4-Bromofluorobenzene | 47.26 | 0 | 50.00 | | 94.5 | 70.7 | 125 | | | | |
| Surr: Dibromofluoromethane | 46.08 | 0 | 50.00 | | 92.2 | 82.2 | 120 | | | | |
| Surr: Toluene-d8 | 48.37 | 0 | 50.00 | | 96.7 | 81.8 | 120 | | | | |

Sample ID: **1511L24-002AMS** Client ID: Units: **ug/L** Prep Date: **11/23/2015** Run No: **304953**
SampleType: **MS** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **216305** Analysis Date: **11/23/2015** Seq No: **6532455**

| Analyte | Result | RPT Limit | SPK value | SPK Ref Val | %REC | Low Limit | High Limit | RPD Ref Val | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 69.20 | 5.0 | 50.00 | | 138 | 60.5 | 156 | | | | |
| Benzene | 53.54 | 5.0 | 50.00 | | 107 | 70 | 135 | | | | |
| Chlorobenzene | 49.88 | 5.0 | 50.00 | | 99.8 | 70.5 | 132 | | | | |
| Toluene | 52.10 | 5.0 | 50.00 | | 104 | 70.5 | 137 | | | | |
| Trichloroethene | 49.91 | 5.0 | 50.00 | | 99.8 | 71.8 | 139 | | | | |
| Surr: 4-Bromofluorobenzene | 45.91 | 0 | 50.00 | | 91.8 | 70.7 | 125 | | | | |
| Surr: Dibromofluoromethane | 45.10 | 0 | 50.00 | | 90.2 | 82.2 | 120 | | | | |
| Surr: Toluene-d8 | 48.42 | 0 | 50.00 | | 96.8 | 81.8 | 120 | | | | |

Sample ID: **1511L24-002AMSD** Client ID: Units: **ug/L** Prep Date: **11/23/2015** Run No: **304953**
SampleType: **MSD** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **216305** Analysis Date: **11/23/2015** Seq No: **6532554**

| Analyte | Result | RPT Limit | SPK value | SPK Ref Val | %REC | Low Limit | High Limit | RPD Ref Val | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 64.20 | 5.0 | 50.00 | | 128 | 60.5 | 156 | 69.20 | 7.50 | 20 | |
| Benzene | 51.14 | 5.0 | 50.00 | | 102 | 70 | 135 | 53.54 | 4.59 | 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:** 1511H11

# ANALYTICAL QC SUMMARY REPORT

**BatchID: 216305**

Sample ID: **1511L24-002AMSD** Client ID:
SampleType: **MSD** TestCode: **TCL VOLATILE ORGANICS SW8260B**
Units: **ug/L** Prep Date: **11/23/2015** Run No: **304953**
BatchID: **216305** Analysis Date: **11/23/2015** Seq No: **6532554**

| Analyte | Result | RPT Limit | SPK value | SPK Ref Val | %REC | Low Limit | High Limit | RPD Ref Val | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chlorobenzene | 48.55 | 5.0 | 50.00 | | 97.1 | 70.5 | 132 | 49.88 | 2.70 | 20 | |
| Toluene | 49.64 | 5.0 | 50.00 | | 99.3 | 70.5 | 137 | 52.10 | 4.84 | 20 | |
| Trichloroethene | 47.12 | 5.0 | 50.00 | | 94.2 | 71.8 | 139 | 49.91 | 5.75 | 20 | |
| Surr: 4-Bromofluorobenzene | 46.20 | 0 | 50.00 | | 92.4 | 70.7 | 125 | 45.91 | 0 | 0 | |
| Surr: Dibromofluoromethane | 45.38 | 0 | 50.00 | | 90.8 | 82.2 | 120 | 45.10 | 0 | 0 | |
| Surr: Toluene-d8 | 48.34 | 0 | 50.00 | | 96.7 | 81.8 | 120 | 48.42 | 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.

AES

November 30, 2015

Chris Miller
Arcadis
1000 Cobb Place Blvd., Bldg. 500-A
Kennesaw GA 30144

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

RE: Lafarge East Point

Dear Chris Miller: Order No: 1511K37

Analytical Environmental Services, Inc. received 10 samples on 11/20/2015 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 07/01/15-06/30/16.
-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 09/01/17.

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.

CRKanhai

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: 1511K37

Date: 11/20/15 Page 1 of 1

COMPANY: Aradis

ADDRESS: 1000 Cobb Place blvd. bldg. 500-A Kennesaw, Ga. 30101

PHONE: 770-428-9009

FAX:

SAMPLED BY: Chris Swinley

SIGNATURE:

ANALYSIS REQUESTED: VOCs 8260B

Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.

| # | SAMPLE ID | SAMPLED DATE | SAMPLED TIME | Grab | Composite | Matrix (See codes) | PRESERVATION (See codes) H+I | REMARKS | No # of Containers |
|---|---|---|---|---|---|---|---|---|---|
| 1 | MW-9 (11192015) | 11/19/15 | 0915 | ✓ | | GW | 2 | | 2 |
| 2 | MW-10 (11192015) | 11/19/15 | 1100 | ✓ | | GW | 2 | | 2 |
| 3 | MW-11 (11192015) | 11/19/15 | 1345 | ✓ | | GW | 2 | | 2 |
| 4 | MW-12 (11192015) | 11/19/15 | 1240 | ✓ | | GW | 2 | | 2 |
| 5 | MW-13 (11192015) | 11/19/15 | 1715 | ✓ | | GW | 2 | | 2 |
| 6 | MW-20 (11192015) | 11/19/15 | 1005 | ✓ | | GW | 2 | | 2 |
| 7 | MW-22 (11192015) | 11/19/15 | 1450 | ✓ | | GW | 2 | | 2 |
| 8 | MW-25 (11202015) | 11/20/15 | 0920 | ✓ | | GW | 2 | | 2 |
| 9 | MW-28 (11202015) | 11/20/15 | 1115 | ✓ | | GW | 2 | | 2 |
| 10 | MW-29 (11202015) | 11/20/15 | 1205 | ✓ | | GW | 2 | | 2 |
| 11 | | | | | | | | | |
| 12 | | | | | | | | | |
| 13 | | | | | | | | | |
| 14 | | | | | | | | | |

| RELINQUISHED BY | DATE/TIME | RECEIVED BY | DATE/TIME |
|---|---|---|---|
| 1: Chris Swinley | 11/20/15 | 1: | 11/20/15 1520 |
| 2: | | 2: | |
| 3: | | 3: | |

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD

OUT / / VIA:

IN / / VIA:

CLIENT FedEx UPS MAIL COURIER GREYHOUND OTHER

PROJECT INFORMATION

PROJECT NAME: Lafarge East Point

PROJECT #:

SITE ADDRESS: 2675 North Martin St. Eastpoint, Ga

SEND REPORT TO: Chris Miller

INVOICE TO: (IF DIFFERENT FROM ABOVE)

QUOTE #: PO#:

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

**Analytical Environmental Services, Inc** **Date:** 30-Nov-15

| | | | |
|---|---|---|---|
| **Client:** | Arcadis | **Client Sample ID:** | MW-9 (11192015) |
| **Project Name:** | Lafarge East Point | **Collection Date:** | 11/19/2015 9:15:00 AM |
| **Lab ID:** | 1511K37-001 | **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 | 216480 | 1 | 11/25/2015 23:49 | CH |
| 1,1,2,2-Tetrachloroethane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/25/2015 23:49 | CH |
| 1,1,2-Trichloroethane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/25/2015 23:49 | CH |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/25/2015 23:49 | CH |
| 1,1-Dichloroethene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/25/2015 23:49 | CH |
| 1,2,4-Trichlorobenzene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/25/2015 23:49 | CH |
| 1,2-Dibromo-3-chloropropane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/25/2015 23:49 | CH |
| 1,2-Dibromoethane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/25/2015 23:49 | CH |
| 1,2-Dichlorobenzene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/25/2015 23:49 | CH |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/25/2015 23:49 | CH |
| 1,2-Dichloropropane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/25/2015 23:49 | CH |
| 1,3-Dichlorobenzene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/25/2015 23:49 | CH |
| 1,4-Dichlorobenzene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/25/2015 23:49 | CH |
| 2-Butanone | BRL | 50 | | ug/L | 216480 | 1 | 11/25/2015 23:49 | CH |
| 2-Hexanone | BRL | 10 | | ug/L | 216480 | 1 | 11/25/2015 23:49 | CH |
| 4-Methyl-2-pentanone | BRL | 10 | | ug/L | 216480 | 1 | 11/25/2015 23:49 | CH |
| Acetone | BRL | 50 | | ug/L | 216480 | 1 | 11/25/2015 23:49 | CH |
| Benzene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/25/2015 23:49 | CH |
| Bromodichloromethane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/25/2015 23:49 | CH |
| Bromoform | BRL | 5.0 | | ug/L | 216480 | 1 | 11/25/2015 23:49 | CH |
| Bromomethane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/25/2015 23:49 | CH |
| Carbon disulfide | BRL | 5.0 | | ug/L | 216480 | 1 | 11/25/2015 23:49 | CH |
| Carbon tetrachloride | BRL | 5.0 | | ug/L | 216480 | 1 | 11/25/2015 23:49 | CH |
| Chlorobenzene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/25/2015 23:49 | CH |
| Chloroethane | BRL | 10 | | ug/L | 216480 | 1 | 11/25/2015 23:49 | CH |
| Chloroform | BRL | 5.0 | | ug/L | 216480 | 1 | 11/25/2015 23:49 | CH |
| Chloromethane | BRL | 10 | | ug/L | 216480 | 1 | 11/25/2015 23:49 | CH |
| cis-1,2-Dichloroethene | 9.1 | 5.0 | | ug/L | 216480 | 1 | 11/25/2015 23:49 | CH |
| cis-1,3-Dichloropropene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/25/2015 23:49 | CH |
| Cyclohexane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/25/2015 23:49 | CH |
| Dibromochloromethane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/25/2015 23:49 | CH |
| Dichlorodifluoromethane | BRL | 10 | | ug/L | 216480 | 1 | 11/25/2015 23:49 | CH |
| Ethylbenzene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/25/2015 23:49 | CH |
| Freon-113 | BRL | 10 | | ug/L | 216480 | 1 | 11/25/2015 23:49 | CH |
| Isopropylbenzene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/25/2015 23:49 | CH |
| m,p-Xylene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/25/2015 23:49 | CH |
| Methyl acetate | BRL | 5.0 | | ug/L | 216480 | 1 | 11/25/2015 23:49 | CH |
| Methyl tert-butyl ether | BRL | 5.0 | | ug/L | 216480 | 1 | 11/25/2015 23:49 | CH |
| Methylcyclohexane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/25/2015 23:49 | CH |
| Methylene chloride | BRL | 5.0 | | ug/L | 216480 | 1 | 11/25/2015 23:49 | CH |
| o-Xylene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/25/2015 23:49 | CH |

**Qualifiers:**

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike 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-Nov-15

| | | | |
|---|---|---|---|
| **Client:** | Arcadis | **Client Sample ID:** | MW-9 (11192015) |
| **Project Name:** | Lafarge East Point | **Collection Date:** | 11/19/2015 9:15:00 AM |
| **Lab ID:** | 1511K37-001 | **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 | 216480 | 1 | 11/25/2015 23:49 | CH |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/25/2015 23:49 | CH |
| Toluene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/25/2015 23:49 | CH |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/25/2015 23:49 | CH |
| trans-1,3-Dichloropropene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/25/2015 23:49 | CH |
| Trichloroethene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/25/2015 23:49 | CH |
| Trichlorofluoromethane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/25/2015 23:49 | CH |
| Vinyl chloride | 2.6 | 2.0 | | ug/L | 216480 | 1 | 11/25/2015 23:49 | CH |
| Surr: 4-Bromofluorobenzene | 83.4 | 70.7-125 | | %REC | 216480 | 1 | 11/25/2015 23:49 | CH |
| Surr: Dibromofluoromethane | 95.6 | 82.2-120 | | %REC | 216480 | 1 | 11/25/2015 23:49 | CH |
| Surr: Toluene-d8 | 100 | 81.8-120 | | %REC | 216480 | 1 | 11/25/2015 23:49 | CH |

**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-Nov-15

| | | | |
|---|---|---|---|
| **Client:** | Arcadis | **Client Sample ID:** | MW-10 (11192015) |
| **Project Name:** | Lafarge East Point | **Collection Date:** | 11/19/2015 11:00:00 AM |
| **Lab ID:** | 1511K37-002 | **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 | 216480 | 1 | 11/26/2015 00:15 | CH |
| 1,1,2,2-Tetrachloroethane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 00:15 | CH |
| 1,1,2-Trichloroethane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 00:15 | CH |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 00:15 | CH |
| 1,1-Dichloroethene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 00:15 | CH |
| 1,2,4-Trichlorobenzene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 00:15 | CH |
| 1,2-Dibromo-3-chloropropane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 00:15 | CH |
| 1,2-Dibromoethane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 00:15 | CH |
| 1,2-Dichlorobenzene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 00:15 | CH |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 00:15 | CH |
| 1,2-Dichloropropane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 00:15 | CH |
| 1,3-Dichlorobenzene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 00:15 | CH |
| 1,4-Dichlorobenzene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 00:15 | CH |
| 2-Butanone | BRL | 50 | | ug/L | 216480 | 1 | 11/26/2015 00:15 | CH |
| 2-Hexanone | BRL | 10 | | ug/L | 216480 | 1 | 11/26/2015 00:15 | CH |
| 4-Methyl-2-pentanone | BRL | 10 | | ug/L | 216480 | 1 | 11/26/2015 00:15 | CH |
| Acetone | BRL | 50 | | ug/L | 216480 | 1 | 11/26/2015 00:15 | CH |
| Benzene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 00:15 | CH |
| Bromodichloromethane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 00:15 | CH |
| Bromoform | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 00:15 | CH |
| Bromomethane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 00:15 | CH |
| Carbon disulfide | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 00:15 | CH |
| Carbon tetrachloride | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 00:15 | CH |
| Chlorobenzene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 00:15 | CH |
| Chloroethane | BRL | 10 | | ug/L | 216480 | 1 | 11/26/2015 00:15 | CH |
| Chloroform | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 00:15 | CH |
| Chloromethane | BRL | 10 | | ug/L | 216480 | 1 | 11/26/2015 00:15 | CH |
| cis-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 00:15 | CH |
| cis-1,3-Dichloropropene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 00:15 | CH |
| Cyclohexane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 00:15 | CH |
| Dibromochloromethane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 00:15 | CH |
| Dichlorodifluoromethane | BRL | 10 | | ug/L | 216480 | 1 | 11/26/2015 00:15 | CH |
| Ethylbenzene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 00:15 | CH |
| Freon-113 | BRL | 10 | | ug/L | 216480 | 1 | 11/26/2015 00:15 | CH |
| Isopropylbenzene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 00:15 | CH |
| m,p-Xylene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 00:15 | CH |
| Methyl acetate | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 00:15 | CH |
| Methyl tert-butyl ether | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 00:15 | CH |
| Methylcyclohexane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 00:15 | CH |
| Methylene chloride | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 00:15 | CH |
| o-Xylene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 00:15 | CH |

**Qualifiers:**

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike 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-Nov-15

| | | | |
|---|---|---|---|
| **Client:** | Arcadis | **Client Sample ID:** | MW-10 (11192015) |
| **Project Name:** | Lafarge East Point | **Collection Date:** | 11/19/2015 11:00:00 AM |
| **Lab ID:** | 1511K37-002 | **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 | 216480 | 1 | 11/26/2015 00:15 | CH |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 00:15 | CH |
| Toluene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 00:15 | CH |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 00:15 | CH |
| trans-1,3-Dichloropropene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 00:15 | CH |
| Trichloroethene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 00:15 | CH |
| Trichlorofluoromethane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 00:15 | CH |
| Vinyl chloride | BRL | 2.0 | | ug/L | 216480 | 1 | 11/26/2015 00:15 | CH |
| Surr: 4-Bromofluorobenzene | 82.8 | 70.7-125 | | %REC | 216480 | 1 | 11/26/2015 00:15 | CH |
| Surr: Dibromofluoromethane | 98.1 | 82.2-120 | | %REC | 216480 | 1 | 11/26/2015 00:15 | CH |
| Surr: Toluene-d8 | 103 | 81.8-120 | | %REC | 216480 | 1 | 11/26/2015 00:15 | CH |

**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-Nov-15

| | | | |
|---|---|---|---|
| **Client:** | Arcadis | **Client Sample ID:** | MW-11 (11192015) |
| **Project Name:** | Lafarge East Point | **Collection Date:** | 11/19/2015 1:45:00 PM |
| **Lab ID:** | 1511K37-003 | **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 | 216480 | 1 | 11/26/2015 00:41 | CH |
| 1,1,2,2-Tetrachloroethane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 00:41 | CH |
| 1,1,2-Trichloroethane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 00:41 | CH |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 00:41 | CH |
| 1,1-Dichloroethene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 00:41 | CH |
| 1,2,4-Trichlorobenzene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 00:41 | CH |
| 1,2-Dibromo-3-chloropropane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 00:41 | CH |
| 1,2-Dibromoethane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 00:41 | CH |
| 1,2-Dichlorobenzene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 00:41 | CH |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 00:41 | CH |
| 1,2-Dichloropropane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 00:41 | CH |
| 1,3-Dichlorobenzene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 00:41 | CH |
| 1,4-Dichlorobenzene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 00:41 | CH |
| 2-Butanone | BRL | 50 | | ug/L | 216480 | 1 | 11/26/2015 00:41 | CH |
| 2-Hexanone | BRL | 10 | | ug/L | 216480 | 1 | 11/26/2015 00:41 | CH |
| 4-Methyl-2-pentanone | BRL | 10 | | ug/L | 216480 | 1 | 11/26/2015 00:41 | CH |
| Acetone | BRL | 50 | | ug/L | 216480 | 1 | 11/26/2015 00:41 | CH |
| Benzene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 00:41 | CH |
| Bromodichloromethane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 00:41 | CH |
| Bromoform | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 00:41 | CH |
| Bromomethane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 00:41 | CH |
| Carbon disulfide | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 00:41 | CH |
| Carbon tetrachloride | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 00:41 | CH |
| Chlorobenzene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 00:41 | CH |
| Chloroethane | BRL | 10 | | ug/L | 216480 | 1 | 11/26/2015 00:41 | CH |
| Chloroform | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 00:41 | CH |
| Chloromethane | BRL | 10 | | ug/L | 216480 | 1 | 11/26/2015 00:41 | CH |
| cis-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 00:41 | CH |
| cis-1,3-Dichloropropene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 00:41 | CH |
| Cyclohexane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 00:41 | CH |
| Dibromochloromethane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 00:41 | CH |
| Dichlorodifluoromethane | BRL | 10 | | ug/L | 216480 | 1 | 11/26/2015 00:41 | CH |
| Ethylbenzene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 00:41 | CH |
| Freon-113 | BRL | 10 | | ug/L | 216480 | 1 | 11/26/2015 00:41 | CH |
| Isopropylbenzene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 00:41 | CH |
| m,p-Xylene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 00:41 | CH |
| Methyl acetate | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 00:41 | CH |
| Methyl tert-butyl ether | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 00:41 | CH |
| Methylcyclohexane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 00:41 | CH |
| Methylene chloride | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 00:41 | CH |
| o-Xylene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 00:41 | CH |

**Qualifiers:**

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike 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-Nov-15

| | | | |
|---|---|---|---|
| **Client:** | Arcadis | **Client Sample ID:** | MW-11 (11192015) |
| **Project Name:** | Lafarge East Point | **Collection Date:** | 11/19/2015 1:45:00 PM |
| **Lab ID:** | 1511K37-003 | **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 | 216480 | 1 | 11/26/2015 00:41 | CH |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 00:41 | CH |
| Toluene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 00:41 | CH |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 00:41 | CH |
| trans-1,3-Dichloropropene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 00:41 | CH |
| Trichloroethene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 00:41 | CH |
| Trichlorofluoromethane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 00:41 | CH |
| Vinyl chloride | BRL | 2.0 | | ug/L | 216480 | 1 | 11/26/2015 00:41 | CH |
| Surr: 4-Bromofluorobenzene | 82.2 | 70.7-125 | | %REC | 216480 | 1 | 11/26/2015 00:41 | CH |
| Surr: Dibromofluoromethane | 91.6 | 82.2-120 | | %REC | 216480 | 1 | 11/26/2015 00:41 | CH |
| Surr: Toluene-d8 | 94.6 | 81.8-120 | | %REC | 216480 | 1 | 11/26/2015 00:41 | CH |

**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-Nov-15

| | | | |
|---|---|---|---|
| **Client:** | Arcadis | **Client Sample ID:** | MW-12 (11192015) |
| **Project Name:** | Lafarge East Point | **Collection Date:** | 11/19/2015 12:40:00 PM |
| **Lab ID:** | 1511K37-004 | **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 | 216480 | 1 | 11/26/2015 01:07 | CH |
| 1,1,2,2-Tetrachloroethane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 01:07 | CH |
| 1,1,2-Trichloroethane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 01:07 | CH |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 01:07 | CH |
| 1,1-Dichloroethene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 01:07 | CH |
| 1,2,4-Trichlorobenzene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 01:07 | CH |
| 1,2-Dibromo-3-chloropropane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 01:07 | CH |
| 1,2-Dibromoethane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 01:07 | CH |
| 1,2-Dichlorobenzene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 01:07 | CH |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 01:07 | CH |
| 1,2-Dichloropropane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 01:07 | CH |
| 1,3-Dichlorobenzene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 01:07 | CH |
| 1,4-Dichlorobenzene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 01:07 | CH |
| 2-Butanone | BRL | 50 | | ug/L | 216480 | 1 | 11/26/2015 01:07 | CH |
| 2-Hexanone | BRL | 10 | | ug/L | 216480 | 1 | 11/26/2015 01:07 | CH |
| 4-Methyl-2-pentanone | BRL | 10 | | ug/L | 216480 | 1 | 11/26/2015 01:07 | CH |
| Acetone | BRL | 50 | | ug/L | 216480 | 1 | 11/26/2015 01:07 | CH |
| Benzene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 01:07 | CH |
| Bromodichloromethane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 01:07 | CH |
| Bromoform | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 01:07 | CH |
| Bromomethane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 01:07 | CH |
| Carbon disulfide | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 01:07 | CH |
| Carbon tetrachloride | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 01:07 | CH |
| Chlorobenzene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 01:07 | CH |
| Chloroethane | BRL | 10 | | ug/L | 216480 | 1 | 11/26/2015 01:07 | CH |
| Chloroform | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 01:07 | CH |
| Chloromethane | BRL | 10 | | ug/L | 216480 | 1 | 11/26/2015 01:07 | CH |
| cis-1,2-Dichloroethene | 47 | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 01:07 | CH |
| cis-1,3-Dichloropropene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 01:07 | CH |
| Cyclohexane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 01:07 | CH |
| Dibromochloromethane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 01:07 | CH |
| Dichlorodifluoromethane | BRL | 10 | | ug/L | 216480 | 1 | 11/26/2015 01:07 | CH |
| Ethylbenzene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 01:07 | CH |
| Freon-113 | BRL | 10 | | ug/L | 216480 | 1 | 11/26/2015 01:07 | CH |
| Isopropylbenzene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 01:07 | CH |
| m,p-Xylene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 01:07 | CH |
| Methyl acetate | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 01:07 | CH |
| Methyl tert-butyl ether | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 01:07 | CH |
| Methylcyclohexane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 01:07 | CH |
| Methylene chloride | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 01:07 | CH |
| o-Xylene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 01:07 | CH |

**Qualifiers:**

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike 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-Nov-15

| | | | |
|---|---|---|---|
| **Client:** | Arcadis | **Client Sample ID:** | MW-12 (11192015) |
| **Project Name:** | Lafarge East Point | **Collection Date:** | 11/19/2015 12:40:00 PM |
| **Lab ID:** | 1511K37-004 | **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 | 216480 | 1 | 11/26/2015 01:07 | CH |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 01:07 | CH |
| Toluene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 01:07 | CH |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 01:07 | CH |
| trans-1,3-Dichloropropene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 01:07 | CH |
| Trichloroethene | 24 | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 01:07 | CH |
| Trichlorofluoromethane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 01:07 | CH |
| Vinyl chloride | BRL | 2.0 | | ug/L | 216480 | 1 | 11/26/2015 01:07 | CH |
| Surr: 4-Bromofluorobenzene | 81.7 | 70.7-125 | | %REC | 216480 | 1 | 11/26/2015 01:07 | CH |
| Surr: Dibromofluoromethane | 92.6 | 82.2-120 | | %REC | 216480 | 1 | 11/26/2015 01:07 | CH |
| Surr: Toluene-d8 | 97.3 | 81.8-120 | | %REC | 216480 | 1 | 11/26/2015 01:07 | CH |

**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-Nov-15

| | | | |
|---|---|---|---|
| **Client:** | Arcadis | **Client Sample ID:** | MW-13 (11192015) |
| **Project Name:** | Lafarge East Point | **Collection Date:** | 11/19/2015 5:15:00 PM |
| **Lab ID:** | 1511K37-005 | **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 | 216480 | 1 | 11/26/2015 01:33 | CH |
| 1,1,2,2-Tetrachloroethane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 01:33 | CH |
| 1,1,2-Trichloroethane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 01:33 | CH |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 01:33 | CH |
| 1,1-Dichloroethene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 01:33 | CH |
| 1,2,4-Trichlorobenzene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 01:33 | CH |
| 1,2-Dibromo-3-chloropropane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 01:33 | CH |
| 1,2-Dibromoethane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 01:33 | CH |
| 1,2-Dichlorobenzene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 01:33 | CH |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 01:33 | CH |
| 1,2-Dichloropropane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 01:33 | CH |
| 1,3-Dichlorobenzene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 01:33 | CH |
| 1,4-Dichlorobenzene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 01:33 | CH |
| 2-Butanone | BRL | 50 | | ug/L | 216480 | 1 | 11/26/2015 01:33 | CH |
| 2-Hexanone | BRL | 10 | | ug/L | 216480 | 1 | 11/26/2015 01:33 | CH |
| 4-Methyl-2-pentanone | BRL | 10 | | ug/L | 216480 | 1 | 11/26/2015 01:33 | CH |
| Acetone | BRL | 50 | | ug/L | 216480 | 1 | 11/26/2015 01:33 | CH |
| Benzene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 01:33 | CH |
| Bromodichloromethane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 01:33 | CH |
| Bromoform | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 01:33 | CH |
| Bromomethane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 01:33 | CH |
| Carbon disulfide | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 01:33 | CH |
| Carbon tetrachloride | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 01:33 | CH |
| Chlorobenzene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 01:33 | CH |
| Chloroethane | BRL | 10 | | ug/L | 216480 | 1 | 11/26/2015 01:33 | CH |
| Chloroform | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 01:33 | CH |
| Chloromethane | BRL | 10 | | ug/L | 216480 | 1 | 11/26/2015 01:33 | CH |
| cis-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 01:33 | CH |
| cis-1,3-Dichloropropene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 01:33 | CH |
| Cyclohexane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 01:33 | CH |
| Dibromochloromethane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 01:33 | CH |
| Dichlorodifluoromethane | BRL | 10 | | ug/L | 216480 | 1 | 11/26/2015 01:33 | CH |
| Ethylbenzene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 01:33 | CH |
| Freon-113 | BRL | 10 | | ug/L | 216480 | 1 | 11/26/2015 01:33 | CH |
| Isopropylbenzene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 01:33 | CH |
| m,p-Xylene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 01:33 | CH |
| Methyl acetate | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 01:33 | CH |
| Methyl tert-butyl ether | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 01:33 | CH |
| Methylcyclohexane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 01:33 | CH |
| Methylene chloride | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 01:33 | CH |
| o-Xylene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 01:33 | CH |

**Qualifiers:**

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike 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-Nov-15

| | | | |
|---|---|---|---|
| **Client:** | Arcadis | **Client Sample ID:** | MW-13 (11192015) |
| **Project Name:** | Lafarge East Point | **Collection Date:** | 11/19/2015 5:15:00 PM |
| **Lab ID:** | 1511K37-005 | **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 | 216480 | 1 | 11/26/2015 01:33 | CH |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 01:33 | CH |
| Toluene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 01:33 | CH |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 01:33 | CH |
| trans-1,3-Dichloropropene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 01:33 | CH |
| Trichloroethene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 01:33 | CH |
| Trichlorofluoromethane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 01:33 | CH |
| Vinyl chloride | BRL | 2.0 | | ug/L | 216480 | 1 | 11/26/2015 01:33 | CH |
| Surr: 4-Bromofluorobenzene | 82.4 | 70.7-125 | | %REC | 216480 | 1 | 11/26/2015 01:33 | CH |
| Surr: Dibromofluoromethane | 97.5 | 82.2-120 | | %REC | 216480 | 1 | 11/26/2015 01:33 | CH |
| Surr: Toluene-d8 | 103 | 81.8-120 | | %REC | 216480 | 1 | 11/26/2015 01:33 | CH |

**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-Nov-15

| | | | |
|---|---|---|---|
| **Client:** | Arcadis | **Client Sample ID:** | MW-20 (11192015) |
| **Project Name:** | Lafarge East Point | **Collection Date:** | 11/19/2015 10:05:00 AM |
| **Lab ID:** | 1511K37-006 | **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 | 216480 | 1 | 11/26/2015 01:59 | CH |
| 1,1,2,2-Tetrachloroethane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 01:59 | CH |
| 1,1,2-Trichloroethane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 01:59 | CH |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 01:59 | CH |
| 1,1-Dichloroethene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 01:59 | CH |
| 1,2,4-Trichlorobenzene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 01:59 | CH |
| 1,2-Dibromo-3-chloropropane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 01:59 | CH |
| 1,2-Dibromoethane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 01:59 | CH |
| 1,2-Dichlorobenzene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 01:59 | CH |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 01:59 | CH |
| 1,2-Dichloropropane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 01:59 | CH |
| 1,3-Dichlorobenzene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 01:59 | CH |
| 1,4-Dichlorobenzene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 01:59 | CH |
| 2-Butanone | BRL | 50 | | ug/L | 216480 | 1 | 11/26/2015 01:59 | CH |
| 2-Hexanone | BRL | 10 | | ug/L | 216480 | 1 | 11/26/2015 01:59 | CH |
| 4-Methyl-2-pentanone | BRL | 10 | | ug/L | 216480 | 1 | 11/26/2015 01:59 | CH |
| Acetone | BRL | 50 | | ug/L | 216480 | 1 | 11/26/2015 01:59 | CH |
| Benzene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 01:59 | CH |
| Bromodichloromethane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 01:59 | CH |
| Bromoform | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 01:59 | CH |
| Bromomethane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 01:59 | CH |
| Carbon disulfide | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 01:59 | CH |
| Carbon tetrachloride | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 01:59 | CH |
| Chlorobenzene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 01:59 | CH |
| Chloroethane | BRL | 10 | | ug/L | 216480 | 1 | 11/26/2015 01:59 | CH |
| Chloroform | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 01:59 | CH |
| Chloromethane | BRL | 10 | | ug/L | 216480 | 1 | 11/26/2015 01:59 | CH |
| cis-1,2-Dichloroethene | 28 | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 01:59 | CH |
| cis-1,3-Dichloropropene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 01:59 | CH |
| Cyclohexane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 01:59 | CH |
| Dibromochloromethane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 01:59 | CH |
| Dichlorodifluoromethane | BRL | 10 | | ug/L | 216480 | 1 | 11/26/2015 01:59 | CH |
| Ethylbenzene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 01:59 | CH |
| Freon-113 | BRL | 10 | | ug/L | 216480 | 1 | 11/26/2015 01:59 | CH |
| Isopropylbenzene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 01:59 | CH |
| m,p-Xylene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 01:59 | CH |
| Methyl acetate | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 01:59 | CH |
| Methyl tert-butyl ether | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 01:59 | CH |
| Methylcyclohexane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 01:59 | CH |
| Methylene chloride | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 01:59 | CH |
| o-Xylene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 01:59 | CH |

**Qualifiers:**

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike 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-Nov-15

| | | | |
|---|---|---|---|
| **Client:** | Arcadis | **Client Sample ID:** | MW-20 (11192015) |
| **Project Name:** | Lafarge East Point | **Collection Date:** | 11/19/2015 10:05:00 AM |
| **Lab ID:** | 1511K37-006 | **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 | 216480 | 1 | 11/26/2015 01:59 | CH |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 01:59 | CH |
| Toluene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 01:59 | CH |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 01:59 | CH |
| trans-1,3-Dichloropropene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 01:59 | CH |
| Trichloroethene | 14 | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 01:59 | CH |
| Trichlorofluoromethane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 01:59 | CH |
| Vinyl chloride | BRL | 2.0 | | ug/L | 216480 | 1 | 11/26/2015 01:59 | CH |
| Surr: 4-Bromofluorobenzene | 82.6 | 70.7-125 | | %REC | 216480 | 1 | 11/26/2015 01:59 | CH |
| Surr: Dibromofluoromethane | 98.1 | 82.2-120 | | %REC | 216480 | 1 | 11/26/2015 01:59 | CH |
| Surr: Toluene-d8 | 102 | 81.8-120 | | %REC | 216480 | 1 | 11/26/2015 01:59 | CH |

**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-Nov-15

| | | | |
|---|---|---|---|
| **Client:** | Arcadis | **Client Sample ID:** | MW-22 (11192015) |
| **Project Name:** | Lafarge East Point | **Collection Date:** | 11/19/2015 2:50:00 PM |
| **Lab ID:** | 1511K37-007 | **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 | 216480 | 1 | 11/26/2015 02:24 | CH |
| 1,1,2,2-Tetrachloroethane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 02:24 | CH |
| 1,1,2-Trichloroethane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 02:24 | CH |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 02:24 | CH |
| 1,1-Dichloroethene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 02:24 | CH |
| 1,2,4-Trichlorobenzene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 02:24 | CH |
| 1,2-Dibromo-3-chloropropane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 02:24 | CH |
| 1,2-Dibromoethane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 02:24 | CH |
| 1,2-Dichlorobenzene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 02:24 | CH |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 02:24 | CH |
| 1,2-Dichloropropane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 02:24 | CH |
| 1,3-Dichlorobenzene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 02:24 | CH |
| 1,4-Dichlorobenzene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 02:24 | CH |
| 2-Butanone | BRL | 50 | | ug/L | 216480 | 1 | 11/26/2015 02:24 | CH |
| 2-Hexanone | BRL | 10 | | ug/L | 216480 | 1 | 11/26/2015 02:24 | CH |
| 4-Methyl-2-pentanone | BRL | 10 | | ug/L | 216480 | 1 | 11/26/2015 02:24 | CH |
| Acetone | BRL | 50 | | ug/L | 216480 | 1 | 11/26/2015 02:24 | CH |
| Benzene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 02:24 | CH |
| Bromodichloromethane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 02:24 | CH |
| Bromoform | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 02:24 | CH |
| Bromomethane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 02:24 | CH |
| Carbon disulfide | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 02:24 | CH |
| Carbon tetrachloride | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 02:24 | CH |
| Chlorobenzene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 02:24 | CH |
| Chloroethane | BRL | 10 | | ug/L | 216480 | 1 | 11/26/2015 02:24 | CH |
| Chloroform | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 02:24 | CH |
| Chloromethane | BRL | 10 | | ug/L | 216480 | 1 | 11/26/2015 02:24 | CH |
| cis-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 02:24 | CH |
| cis-1,3-Dichloropropene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 02:24 | CH |
| Cyclohexane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 02:24 | CH |
| Dibromochloromethane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 02:24 | CH |
| Dichlorodifluoromethane | BRL | 10 | | ug/L | 216480 | 1 | 11/26/2015 02:24 | CH |
| Ethylbenzene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 02:24 | CH |
| Freon-113 | BRL | 10 | | ug/L | 216480 | 1 | 11/26/2015 02:24 | CH |
| Isopropylbenzene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 02:24 | CH |
| m,p-Xylene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 02:24 | CH |
| Methyl acetate | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 02:24 | CH |
| Methyl tert-butyl ether | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 02:24 | CH |
| Methylcyclohexane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 02:24 | CH |
| Methylene chloride | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 02:24 | CH |
| o-Xylene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 02:24 | CH |

**Qualifiers:**

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike 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-Nov-15

| | | | |
|---|---|---|---|
| **Client:** | Arcadis | **Client Sample ID:** | MW-22 (11192015) |
| **Project Name:** | Lafarge East Point | **Collection Date:** | 11/19/2015 2:50:00 PM |
| **Lab ID:** | 1511K37-007 | **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 | 216480 | 1 | 11/26/2015 02:24 | CH |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 02:24 | CH |
| Toluene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 02:24 | CH |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 02:24 | CH |
| trans-1,3-Dichloropropene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 02:24 | CH |
| Trichloroethene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 02:24 | CH |
| Trichlorofluoromethane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 02:24 | CH |
| Vinyl chloride | BRL | 2.0 | | ug/L | 216480 | 1 | 11/26/2015 02:24 | CH |
| Surr: 4-Bromofluorobenzene | 85.6 | 70.7-125 | | %REC | 216480 | 1 | 11/26/2015 02:24 | CH |
| Surr: Dibromofluoromethane | 95.3 | 82.2-120 | | %REC | 216480 | 1 | 11/26/2015 02:24 | CH |
| Surr: Toluene-d8 | 96.9 | 81.8-120 | | %REC | 216480 | 1 | 11/26/2015 02:24 | CH |

**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-Nov-15

| | | | |
|---|---|---|---|
| **Client:** | Arcadis | **Client Sample ID:** | MW-25 (11202015) |
| **Project Name:** | Lafarge East Point | **Collection Date:** | 11/20/2015 9:20:00 AM |
| **Lab ID:** | 1511K37-008 | **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 | 216480 | 1 | 11/26/2015 02:50 | CH |
| 1,1,2,2-Tetrachloroethane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 02:50 | CH |
| 1,1,2-Trichloroethane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 02:50 | CH |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 02:50 | CH |
| 1,1-Dichloroethene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 02:50 | CH |
| 1,2,4-Trichlorobenzene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 02:50 | CH |
| 1,2-Dibromo-3-chloropropane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 02:50 | CH |
| 1,2-Dibromoethane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 02:50 | CH |
| 1,2-Dichlorobenzene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 02:50 | CH |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 02:50 | CH |
| 1,2-Dichloropropane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 02:50 | CH |
| 1,3-Dichlorobenzene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 02:50 | CH |
| 1,4-Dichlorobenzene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 02:50 | CH |
| 2-Butanone | BRL | 50 | | ug/L | 216480 | 1 | 11/26/2015 02:50 | CH |
| 2-Hexanone | BRL | 10 | | ug/L | 216480 | 1 | 11/26/2015 02:50 | CH |
| 4-Methyl-2-pentanone | BRL | 10 | | ug/L | 216480 | 1 | 11/26/2015 02:50 | CH |
| Acetone | BRL | 50 | | ug/L | 216480 | 1 | 11/26/2015 02:50 | CH |
| Benzene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 02:50 | CH |
| Bromodichloromethane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 02:50 | CH |
| Bromoform | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 02:50 | CH |
| Bromomethane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 02:50 | CH |
| Carbon disulfide | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 02:50 | CH |
| Carbon tetrachloride | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 02:50 | CH |
| Chlorobenzene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 02:50 | CH |
| Chloroethane | BRL | 10 | | ug/L | 216480 | 1 | 11/26/2015 02:50 | CH |
| Chloroform | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 02:50 | CH |
| Chloromethane | BRL | 10 | | ug/L | 216480 | 1 | 11/26/2015 02:50 | CH |
| cis-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 02:50 | CH |
| cis-1,3-Dichloropropene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 02:50 | CH |
| Cyclohexane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 02:50 | CH |
| Dibromochloromethane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 02:50 | CH |
| Dichlorodifluoromethane | BRL | 10 | | ug/L | 216480 | 1 | 11/26/2015 02:50 | CH |
| Ethylbenzene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 02:50 | CH |
| Freon-113 | BRL | 10 | | ug/L | 216480 | 1 | 11/26/2015 02:50 | CH |
| Isopropylbenzene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 02:50 | CH |
| m,p-Xylene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 02:50 | CH |
| Methyl acetate | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 02:50 | CH |
| Methyl tert-butyl ether | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 02:50 | CH |
| Methylcyclohexane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 02:50 | CH |
| Methylene chloride | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 02:50 | CH |
| o-Xylene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 02:50 | CH |

**Qualifiers:**

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike 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-Nov-15

| | | | |
|---|---|---|---|
| **Client:** | Arcadis | **Client Sample ID:** | MW-25 (11202015) |
| **Project Name:** | Lafarge East Point | **Collection Date:** | 11/20/2015 9:20:00 AM |
| **Lab ID:** | 1511K37-008 | **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 | 216480 | 1 | 11/26/2015 02:50 | CH |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 02:50 | CH |
| Toluene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 02:50 | CH |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 02:50 | CH |
| trans-1,3-Dichloropropene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 02:50 | CH |
| Trichloroethene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 02:50 | CH |
| Trichlorofluoromethane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 02:50 | CH |
| Vinyl chloride | BRL | 2.0 | | ug/L | 216480 | 1 | 11/26/2015 02:50 | CH |
| Surr: 4-Bromofluorobenzene | 82 | 70.7-125 | | %REC | 216480 | 1 | 11/26/2015 02:50 | CH |
| Surr: Dibromofluoromethane | 94.4 | 82.2-120 | | %REC | 216480 | 1 | 11/26/2015 02:50 | CH |
| Surr: Toluene-d8 | 100 | 81.8-120 | | %REC | 216480 | 1 | 11/26/2015 02:50 | CH |

**Qualifiers:**

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike 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-Nov-15

| | | | |
|---|---|---|---|
| **Client:** | Arcadis | **Client Sample ID:** | MW-28 (11202015) |
| **Project Name:** | Lafarge East Point | **Collection Date:** | 11/20/2015 11:15:00 AM |
| **Lab ID:** | 1511K37-009 | **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 | 216480 | 1 | 11/26/2015 04:33 | CH |
| 1,1,2,2-Tetrachloroethane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 04:33 | CH |
| 1,1,2-Trichloroethane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 04:33 | CH |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 04:33 | CH |
| 1,1-Dichloroethene | 5.7 | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 04:33 | CH |
| 1,2,4-Trichlorobenzene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 04:33 | CH |
| 1,2-Dibromo-3-chloropropane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 04:33 | CH |
| 1,2-Dibromoethane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 04:33 | CH |
| 1,2-Dichlorobenzene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 04:33 | CH |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 04:33 | CH |
| 1,2-Dichloropropane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 04:33 | CH |
| 1,3-Dichlorobenzene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 04:33 | CH |
| 1,4-Dichlorobenzene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 04:33 | CH |
| 2-Butanone | BRL | 50 | | ug/L | 216480 | 1 | 11/26/2015 04:33 | CH |
| 2-Hexanone | BRL | 10 | | ug/L | 216480 | 1 | 11/26/2015 04:33 | CH |
| 4-Methyl-2-pentanone | BRL | 10 | | ug/L | 216480 | 1 | 11/26/2015 04:33 | CH |
| Acetone | BRL | 50 | | ug/L | 216480 | 1 | 11/26/2015 04:33 | CH |
| Benzene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 04:33 | CH |
| Bromodichloromethane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 04:33 | CH |
| Bromoform | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 04:33 | CH |
| Bromomethane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 04:33 | CH |
| Carbon disulfide | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 04:33 | CH |
| Carbon tetrachloride | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 04:33 | CH |
| Chlorobenzene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 04:33 | CH |
| Chloroethane | BRL | 10 | | ug/L | 216480 | 1 | 11/26/2015 04:33 | CH |
| Chloroform | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 04:33 | CH |
| Chloromethane | BRL | 10 | | ug/L | 216480 | 1 | 11/26/2015 04:33 | CH |
| cis-1,2-Dichloroethene | 1900 | 250 | | ug/L | 216480 | 50 | 11/25/2015 20:48 | CH |
| cis-1,3-Dichloropropene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 04:33 | CH |
| Cyclohexane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 04:33 | CH |
| Dibromochloromethane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 04:33 | CH |
| Dichlorodifluoromethane | BRL | 10 | | ug/L | 216480 | 1 | 11/26/2015 04:33 | CH |
| Ethylbenzene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 04:33 | CH |
| Freon-113 | BRL | 10 | | ug/L | 216480 | 1 | 11/26/2015 04:33 | CH |
| Isopropylbenzene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 04:33 | CH |
| m,p-Xylene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 04:33 | CH |
| Methyl acetate | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 04:33 | CH |
| Methyl tert-butyl ether | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 04:33 | CH |
| Methylcyclohexane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 04:33 | CH |
| Methylene chloride | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 04:33 | CH |
| o-Xylene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 04:33 | CH |

**Qualifiers:**

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike 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-Nov-15

| | | | |
|---|---|---|---|
| **Client:** | Arcadis | **Client Sample ID:** | MW-28 (11202015) |
| **Project Name:** | Lafarge East Point | **Collection Date:** | 11/20/2015 11:15:00 AM |
| **Lab ID:** | 1511K37-009 | **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 | 216480 | 1 | 11/26/2015 04:33 | CH |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 04:33 | CH |
| Toluene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 04:33 | CH |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 04:33 | CH |
| trans-1,3-Dichloropropene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 04:33 | CH |
| Trichloroethene | 280 | 250 | | ug/L | 216480 | 50 | 11/25/2015 20:48 | CH |
| Trichlorofluoromethane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 04:33 | CH |
| Vinyl chloride | 17 | 2.0 | | ug/L | 216480 | 1 | 11/26/2015 04:33 | CH |
| Surr: 4-Bromofluorobenzene | 84.4 | 70.7-125 | | %REC | 216480 | 50 | 11/25/2015 20:48 | CH |
| Surr: 4-Bromofluorobenzene | 81.3 | 70.7-125 | | %REC | 216480 | 1 | 11/26/2015 04:33 | CH |
| Surr: Dibromofluoromethane | 90.4 | 82.2-120 | | %REC | 216480 | 50 | 11/25/2015 20:48 | CH |
| Surr: Dibromofluoromethane | 102 | 82.2-120 | | %REC | 216480 | 1 | 11/26/2015 04:33 | CH |
| Surr: Toluene-d8 | 100 | 81.8-120 | | %REC | 216480 | 50 | 11/25/2015 20:48 | CH |
| Surr: Toluene-d8 | 96.7 | 81.8-120 | | %REC | 216480 | 1 | 11/26/2015 04:33 | CH |

**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-Nov-15

| | | | |
|---|---|---|---|
| **Client:** | Arcadis | **Client Sample ID:** | MW-29 (11202015) |
| **Project Name:** | Lafarge East Point | **Collection Date:** | 11/20/2015 12:05:00 PM |
| **Lab ID:** | 1511K37-010 | **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 | 216480 | 1 | 11/26/2015 04:08 | CH |
| 1,1,2,2-Tetrachloroethane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 04:08 | CH |
| 1,1,2-Trichloroethane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 04:08 | CH |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 04:08 | CH |
| 1,1-Dichloroethene | 5.6 | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 04:08 | CH |
| 1,2,4-Trichlorobenzene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 04:08 | CH |
| 1,2-Dibromo-3-chloropropane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 04:08 | CH |
| 1,2-Dibromoethane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 04:08 | CH |
| 1,2-Dichlorobenzene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 04:08 | CH |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 04:08 | CH |
| 1,2-Dichloropropane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 04:08 | CH |
| 1,3-Dichlorobenzene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 04:08 | CH |
| 1,4-Dichlorobenzene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 04:08 | CH |
| 2-Butanone | BRL | 50 | | ug/L | 216480 | 1 | 11/26/2015 04:08 | CH |
| 2-Hexanone | BRL | 10 | | ug/L | 216480 | 1 | 11/26/2015 04:08 | CH |
| 4-Methyl-2-pentanone | BRL | 10 | | ug/L | 216480 | 1 | 11/26/2015 04:08 | CH |
| Acetone | BRL | 50 | | ug/L | 216480 | 1 | 11/26/2015 04:08 | CH |
| Benzene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 04:08 | CH |
| Bromodichloromethane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 04:08 | CH |
| Bromoform | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 04:08 | CH |
| Bromomethane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 04:08 | CH |
| Carbon disulfide | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 04:08 | CH |
| Carbon tetrachloride | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 04:08 | CH |
| Chlorobenzene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 04:08 | CH |
| Chloroethane | BRL | 10 | | ug/L | 216480 | 1 | 11/26/2015 04:08 | CH |
| Chloroform | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 04:08 | CH |
| Chloromethane | BRL | 10 | | ug/L | 216480 | 1 | 11/26/2015 04:08 | CH |
| cis-1,2-Dichloroethene | 2000 | 250 | | ug/L | 216480 | 50 | 11/27/2015 17:57 | TH |
| cis-1,3-Dichloropropene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 04:08 | CH |
| Cyclohexane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 04:08 | CH |
| Dibromochloromethane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 04:08 | CH |
| Dichlorodifluoromethane | BRL | 10 | | ug/L | 216480 | 1 | 11/26/2015 04:08 | CH |
| Ethylbenzene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 04:08 | CH |
| Freon-113 | BRL | 10 | | ug/L | 216480 | 1 | 11/26/2015 04:08 | CH |
| Isopropylbenzene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 04:08 | CH |
| m,p-Xylene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 04:08 | CH |
| Methyl acetate | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 04:08 | CH |
| Methyl tert-butyl ether | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 04:08 | CH |
| Methylcyclohexane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 04:08 | CH |
| Methylene chloride | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 04:08 | CH |
| o-Xylene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 04:08 | CH |

**Qualifiers:**

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike 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-Nov-15

| | | | |
|---|---|---|---|
| **Client:** | Arcadis | **Client Sample ID:** | MW-29 (11202015) |
| **Project Name:** | Lafarge East Point | **Collection Date:** | 11/20/2015 12:05:00 PM |
| **Lab ID:** | 1511K37-010 | **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 | 216480 | 1 | 11/26/2015 04:08 | CH |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 04:08 | CH |
| Toluene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 04:08 | CH |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 04:08 | CH |
| trans-1,3-Dichloropropene | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 04:08 | CH |
| Trichloroethene | 380 | 50 | | ug/L | 216480 | 10 | 11/26/2015 03:42 | CH |
| Trichlorofluoromethane | BRL | 5.0 | | ug/L | 216480 | 1 | 11/26/2015 04:08 | CH |
| Vinyl chloride | 27 | 2.0 | | ug/L | 216480 | 1 | 11/26/2015 04:08 | CH |
| Surr: 4-Bromofluorobenzene | 82.4 | 70.7-125 | | %REC | 216480 | 50 | 11/27/2015 17:57 | TH |
| Surr: 4-Bromofluorobenzene | 81.6 | 70.7-125 | | %REC | 216480 | 1 | 11/26/2015 04:08 | CH |
| Surr: 4-Bromofluorobenzene | 80.4 | 70.7-125 | | %REC | 216480 | 10 | 11/26/2015 03:42 | CH |
| Surr: Dibromofluoromethane | 113 | 82.2-120 | | %REC | 216480 | 50 | 11/27/2015 17:57 | TH |
| Surr: Dibromofluoromethane | 101 | 82.2-120 | | %REC | 216480 | 10 | 11/26/2015 03:42 | CH |
| Surr: Dibromofluoromethane | 103 | 82.2-120 | | %REC | 216480 | 1 | 11/26/2015 04:08 | CH |
| Surr: Toluene-d8 | 97.8 | 81.8-120 | | %REC | 216480 | 50 | 11/27/2015 17:57 | TH |
| Surr: Toluene-d8 | 99.9 | 81.8-120 | | %REC | 216480 | 1 | 11/26/2015 04:08 | CH |
| Surr: Toluene-d8 | 100 | 81.8-120 | | %REC | 216480 | 10 | 11/26/2015 03:42 | CH |

**Qualifiers:**

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike 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 1511K37

Checklist completed by _____ 11/10/15
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? (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 East Point
**Workorder:** 1511K37

# ANALYTICAL QC SUMMARY REPORT

**BatchID: 216480**

Sample ID: **MB-216480** Client ID: Units: **ug/L** Prep Date: **11/25/2015** Run No: **305146**
SampleType: **MBLK** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **216480** Analysis Date: **11/25/2015** Seq No: **6537605**

| 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:** 1511K37

# ANALYTICAL QC SUMMARY REPORT

**BatchID: 216480**

Sample ID: **MB-216480** Client ID: Units: **ug/L** Prep Date: **11/25/2015** Run No: **305146**
SampleType: **MBLK** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **216480** Analysis Date: **11/25/2015** Seq No: **6537605**

| 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 | 41.50 | 0 | 50.00 | | 83.0 | 70.7 | 125 | | | | |
| Surr: Dibromofluoromethane | 47.01 | 0 | 50.00 | | 94.0 | 82.2 | 120 | | | | |
| Surr: Toluene-d8 | 49.19 | 0 | 50.00 | | 98.4 | 81.8 | 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:** 1511K37

# ANALYTICAL QC SUMMARY REPORT

**BatchID: 216480**

| Sample ID: **LCS-216480** | Client ID: | | Units: **ug/L** | Prep Date: **11/25/2015** | Run No: **305286** |
|---|---|---|---|---|---|
| SampleType: **LCS** | TestCode: **TCL VOLATILE ORGANICS SW8260B** | | BatchID: **216480** | Analysis Date: **11/27/2015** | Seq No: **6540390** |

| Analyte | Result | RPT Limit | SPK value | SPK Ref Val | %REC | Low Limit | High Limit | RPD Ref Val | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 57.39 | 5.0 | 50.00 | | 115 | 64.2 | 137 | | | | |
| Benzene | 51.55 | 5.0 | 50.00 | | 103 | 72.8 | 128 | | | | |
| Chlorobenzene | 54.72 | 5.0 | 50.00 | | 109 | 72.3 | 126 | | | | |
| Toluene | 52.00 | 5.0 | 50.00 | | 104 | 74.9 | 127 | | | | |
| Trichloroethene | 58.37 | 5.0 | 50.00 | | 117 | 70.5 | 134 | | | | |
| Surr: 4-Bromofluorobenzene | 39.12 | 0 | 50.00 | | 78.2 | 70.7 | 125 | | | | |
| Surr: Dibromofluoromethane | 52.60 | 0 | 50.00 | | 105 | 82.2 | 120 | | | | |
| Surr: Toluene-d8 | 46.64 | 0 | 50.00 | | 93.3 | 81.8 | 120 | | | | |

| Sample ID: **1511K37-009AMS** | Client ID: **MW-28 (11202015)** | | Units: **ug/L** | Prep Date: **11/25/2015** | Run No: **305286** |
|---|---|---|---|---|---|
| SampleType: **MS** | TestCode: **TCL VOLATILE ORGANICS SW8260B** | | BatchID: **216480** | Analysis Date: **11/27/2015** | Seq No: **6541910** |

| Analyte | Result | RPT Limit | SPK value | SPK Ref Val | %REC | Low Limit | High Limit | RPD Ref Val | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 2878 | 250 | 2500 | | 115 | 60.5 | 156 | | | | |
| Benzene | 2656 | 250 | 2500 | | 106 | 70 | 135 | | | | |
| Chlorobenzene | 2705 | 250 | 2500 | | 108 | 70.5 | 132 | | | | |
| Toluene | 2626 | 250 | 2500 | | 105 | 70.5 | 137 | | | | |
| Trichloroethene | 3222 | 250 | 2500 | 278.0 | 118 | 71.8 | 139 | | | | |
| Surr: 4-Bromofluorobenzene | 1982 | 0 | 2500 | | 79.3 | 70.7 | 125 | | | | |
| Surr: Dibromofluoromethane | 2692 | 0 | 2500 | | 108 | 82.2 | 120 | | | | |
| Surr: Toluene-d8 | 2436 | 0 | 2500 | | 97.5 | 81.8 | 120 | | | | |

| Sample ID: **1511K37-009AMSD** | Client ID: **MW-28 (11202015)** | | Units: **ug/L** | Prep Date: **11/25/2015** | Run No: **305286** |
|---|---|---|---|---|---|
| SampleType: **MSD** | TestCode: **TCL VOLATILE ORGANICS SW8260B** | | BatchID: **216480** | Analysis Date: **11/27/2015** | Seq No: **6541911** |

| Analyte | Result | RPT Limit | SPK value | SPK Ref Val | %REC | Low Limit | High Limit | RPD Ref Val | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 2722 | 250 | 2500 | | 109 | 60.5 | 156 | 2878 | 5.59 | 20 | |
| Benzene | 2433 | 250 | 2500 | | 97.3 | 70 | 135 | 2656 | 8.78 | 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 East Point
**Workorder:** 1511K37

# ANALYTICAL QC SUMMARY REPORT

**BatchID:** 216480

Sample ID: **1511K37-009AMSD** Client ID: **MW-28 (11202015)** Units: **ug/L** Prep Date: **11/25/2015** Run No: **305286**
SampleType: **MSD** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **216480** Analysis Date: **11/27/2015** Seq No: **6541911**

| Analyte | Result | RPT Limit | SPK value | SPK Ref Val | %REC | Low Limit | High Limit | RPD Ref Val | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chlorobenzene | 2514 | 250 | 2500 | | 101 | 70.5 | 132 | 2705 | 7.34 | 20 | |
| Toluene | 2396 | 250 | 2500 | | 95.8 | 70.5 | 137 | 2626 | 9.16 | 20 | |
| Trichloroethene | 3024 | 250 | 2500 | 278.0 | 110 | 71.8 | 139 | 3222 | 6.34 | 20 | |
| Surr: 4-Bromofluorobenzene | 1941 | 0 | 2500 | | 77.6 | 70.7 | 125 | 1982 | 0 | 0 | |
| Surr: Dibromofluoromethane | 2708 | 0 | 2500 | | 108 | 82.2 | 120 | 2692 | 0 | 0 | |
| Surr: Toluene-d8 | 2370 | 0 | 2500 | | 94.8 | 81.8 | 120 | 2436 | 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 | | |

AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

January 12, 2016

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: 1512Q21

Analytical Environmental Services, Inc. received 4 samples on 12/31/2015 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 07/01/15-06/30/16.
-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 09/01/17.

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.

CRKanhai

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: 152021

Date: 12-31-15 Page 1 of 1

COMPANY: Accedis

ADDRESS: 1000 Cobb Place Blvd Bldg 500-A Kennesaw, GA 30144

PHONE: (770) 428-9009

FAX:

SAMPLED BY: M. Myers

SIGNATURE:

| # | SAMPLE ID | SAMPLED DATE | SAMPLED TIME | Grab | Composite | Matrix (See codes) | VOCs | TCL VOCs | TCL SVOCs, TAL Pest/PCBs, TCLP Metals | | | | | | | | | | | | | | | | | No # of Containers |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | PRESERVATION (See codes) | | | | | | | | | | | | | | | | | | | REMARKS |
| | | | | | | | H+I | | | | | | | | | | | | | | | | | | | |
| 1 | MW-37 (123115) | 12/31/15 | 1235 | X | | GW | 2 | | | | | | | | | | | | | | | | | | | 2 |
| 2 | MW-38 (123115) | 12/31/15 | 1330 | X | | GW | 2 | | | | | | | | | | | | | | | | | | | |
| 3 | IDW-1 (123115) | 12/31/15 | 1345 | | X | SO | | 2 | 1 | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | | | | | | | | | | |

Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.

| RELINQUISHED BY | DATE/TIME | RECEIVED BY | DATE/TIME |
|---|---|---|---|
| 1: | 12-31-15/1445 | 1: | 12/31/15 14:45 |
| 2: | | 2: | |
| 3: | | 3: | |

PROJECT INFORMATION

PROJECT NAME: Lithonia EP

PROJECT #: HT212 446

SITE ADDRESS: RN Main St., East Point, GA

SEND REPORT TO: Chris Mills

INVOICE TO: (IF DIFFERENT FROM ABOVE)

QUOTE #: PO#:

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

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD

OUT / / VIA:

IN / / VIA:

CLIENT FedEx UPS MAIL COURIER

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



White Copy - Original; Yellow Copy - Client

**Client:** Arcadis
**Project:** Lafarge EP
**Lab ID:** 1512Q21

## 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.

**Analytical Environmental Services, Inc** **Date:** 12-Jan-16

| | | | |
|---|---|---|---|
| **Client:** | Arcadis | **Client Sample ID:** | MW-37 (123115) |
| **Project Name:** | Lafarge EP | **Collection Date:** | 12/31/2015 12:35:00 PM |
| **Lab ID:** | 1512Q21-001 | **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 | 218014 | 1 | 01/06/2016 17:34 | MD |
| 1,1,2,2-Tetrachloroethane | BRL | 5.0 | | ug/L | 218014 | 1 | 01/06/2016 17:34 | MD |
| 1,1,2-Trichloroethane | BRL | 5.0 | | ug/L | 218014 | 1 | 01/06/2016 17:34 | MD |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 218014 | 1 | 01/06/2016 17:34 | MD |
| 1,1-Dichloroethene | BRL | 5.0 | | ug/L | 218014 | 1 | 01/06/2016 17:34 | MD |
| 1,2,4-Trichlorobenzene | BRL | 5.0 | | ug/L | 218014 | 1 | 01/06/2016 17:34 | MD |
| 1,2-Dibromo-3-chloropropane | BRL | 5.0 | | ug/L | 218014 | 1 | 01/06/2016 17:34 | MD |
| 1,2-Dibromoethane | BRL | 5.0 | | ug/L | 218014 | 1 | 01/06/2016 17:34 | MD |
| 1,2-Dichlorobenzene | BRL | 5.0 | | ug/L | 218014 | 1 | 01/06/2016 17:34 | MD |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 218014 | 1 | 01/06/2016 17:34 | MD |
| 1,2-Dichloropropane | BRL | 5.0 | | ug/L | 218014 | 1 | 01/06/2016 17:34 | MD |
| 1,3-Dichlorobenzene | BRL | 5.0 | | ug/L | 218014 | 1 | 01/06/2016 17:34 | MD |
| 1,4-Dichlorobenzene | BRL | 5.0 | | ug/L | 218014 | 1 | 01/06/2016 17:34 | MD |
| 2-Butanone | BRL | 50 | | ug/L | 218014 | 1 | 01/06/2016 17:34 | MD |
| 2-Hexanone | BRL | 10 | | ug/L | 218014 | 1 | 01/06/2016 17:34 | MD |
| 4-Methyl-2-pentanone | BRL | 10 | | ug/L | 218014 | 1 | 01/06/2016 17:34 | MD |
| Acetone | BRL | 50 | | ug/L | 218014 | 1 | 01/06/2016 17:34 | MD |
| Benzene | BRL | 5.0 | | ug/L | 218014 | 1 | 01/06/2016 17:34 | MD |
| Bromodichloromethane | BRL | 5.0 | | ug/L | 218014 | 1 | 01/06/2016 17:34 | MD |
| Bromoform | BRL | 5.0 | | ug/L | 218014 | 1 | 01/06/2016 17:34 | MD |
| Bromomethane | BRL | 5.0 | | ug/L | 218014 | 1 | 01/06/2016 17:34 | MD |
| Carbon disulfide | BRL | 5.0 | | ug/L | 218014 | 1 | 01/06/2016 17:34 | MD |
| Carbon tetrachloride | BRL | 5.0 | | ug/L | 218014 | 1 | 01/06/2016 17:34 | MD |
| Chlorobenzene | BRL | 5.0 | | ug/L | 218014 | 1 | 01/06/2016 17:34 | MD |
| Chloroethane | BRL | 10 | | ug/L | 218014 | 1 | 01/06/2016 17:34 | MD |
| Chloroform | BRL | 5.0 | | ug/L | 218014 | 1 | 01/06/2016 17:34 | MD |
| Chloromethane | BRL | 10 | | ug/L | 218014 | 1 | 01/06/2016 17:34 | MD |
| cis-1,2-Dichloroethene | 520 | 50 | | ug/L | 218014 | 10 | 01/06/2016 18:03 | MD |
| cis-1,3-Dichloropropene | BRL | 5.0 | | ug/L | 218014 | 1 | 01/06/2016 17:34 | MD |
| Cyclohexane | BRL | 5.0 | | ug/L | 218014 | 1 | 01/06/2016 17:34 | MD |
| Dibromochloromethane | BRL | 5.0 | | ug/L | 218014 | 1 | 01/06/2016 17:34 | MD |
| Dichlorodifluoromethane | BRL | 10 | | ug/L | 218014 | 1 | 01/06/2016 17:34 | MD |
| Ethylbenzene | BRL | 5.0 | | ug/L | 218014 | 1 | 01/06/2016 17:34 | MD |
| Freon-113 | BRL | 10 | | ug/L | 218014 | 1 | 01/06/2016 17:34 | MD |
| Isopropylbenzene | BRL | 5.0 | | ug/L | 218014 | 1 | 01/06/2016 17:34 | MD |
| m,p-Xylene | BRL | 5.0 | | ug/L | 218014 | 1 | 01/06/2016 17:34 | MD |
| Methyl acetate | BRL | 5.0 | | ug/L | 218014 | 1 | 01/06/2016 17:34 | MD |
| Methyl tert-butyl ether | BRL | 5.0 | | ug/L | 218014 | 1 | 01/06/2016 17:34 | MD |
| Methylcyclohexane | BRL | 5.0 | | ug/L | 218014 | 1 | 01/06/2016 17:34 | MD |
| Methylene chloride | BRL | 5.0 | | ug/L | 218014 | 1 | 01/06/2016 17:34 | MD |
| o-Xylene | BRL | 5.0 | | ug/L | 218014 | 1 | 01/06/2016 17:34 | 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

**Analytical Environmental Services, Inc** **Date:** 12-Jan-16

| | | | |
|---|---|---|---|
| **Client:** | Arcadis | **Client Sample ID:** | MW-37 (123115) |
| **Project Name:** | Lafarge EP | **Collection Date:** | 12/31/2015 12:35:00 PM |
| **Lab ID:** | 1512Q21-001 | **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 | 218014 | 1 | 01/06/2016 17:34 | MD |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 218014 | 1 | 01/06/2016 17:34 | MD |
| Toluene | BRL | 5.0 | | ug/L | 218014 | 1 | 01/06/2016 17:34 | MD |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 218014 | 1 | 01/06/2016 17:34 | MD |
| trans-1,3-Dichloropropene | BRL | 5.0 | | ug/L | 218014 | 1 | 01/06/2016 17:34 | MD |
| Trichloroethene | 26 | 5.0 | | ug/L | 218014 | 1 | 01/06/2016 17:34 | MD |
| Trichlorofluoromethane | BRL | 5.0 | | ug/L | 218014 | 1 | 01/06/2016 17:34 | MD |
| Vinyl chloride | BRL | 2.0 | | ug/L | 218014 | 1 | 01/06/2016 17:34 | MD |
| Surr: 4-Bromofluorobenzene | 87.2 | 70.7-125 | | %REC | 218014 | 1 | 01/06/2016 17:34 | MD |
| Surr: 4-Bromofluorobenzene | 89.2 | 70.7-125 | | %REC | 218014 | 10 | 01/06/2016 18:03 | MD |
| Surr: Dibromofluoromethane | 105 | 82.2-120 | | %REC | 218014 | 10 | 01/06/2016 18:03 | MD |
| Surr: Dibromofluoromethane | 107 | 82.2-120 | | %REC | 218014 | 1 | 01/06/2016 17:34 | MD |
| Surr: Toluene-d8 | 94.4 | 81.8-120 | | %REC | 218014 | 10 | 01/06/2016 18:03 | MD |
| Surr: Toluene-d8 | 100 | 81.8-120 | | %REC | 218014 | 1 | 01/06/2016 17:34 | 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

**Analytical Environmental Services, Inc** **Date:** 12-Jan-16

| | | | |
|---|---|---|---|
| **Client:** | Arcadis | **Client Sample ID:** | MW-38 (123115) |
| **Project Name:** | Lafarge EP | **Collection Date:** | 12/31/2015 1:30:00 PM |
| **Lab ID:** | 1512Q21-002 | **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 | 218014 | 1 | 01/06/2016 18:29 | MD |
| 1,1,2,2-Tetrachloroethane | BRL | 5.0 | | ug/L | 218014 | 1 | 01/06/2016 18:29 | MD |
| 1,1,2-Trichloroethane | BRL | 5.0 | | ug/L | 218014 | 1 | 01/06/2016 18:29 | MD |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 218014 | 1 | 01/06/2016 18:29 | MD |
| 1,1-Dichloroethene | BRL | 5.0 | | ug/L | 218014 | 1 | 01/06/2016 18:29 | MD |
| 1,2,4-Trichlorobenzene | BRL | 5.0 | | ug/L | 218014 | 1 | 01/06/2016 18:29 | MD |
| 1,2-Dibromo-3-chloropropane | BRL | 5.0 | | ug/L | 218014 | 1 | 01/06/2016 18:29 | MD |
| 1,2-Dibromoethane | BRL | 5.0 | | ug/L | 218014 | 1 | 01/06/2016 18:29 | MD |
| 1,2-Dichlorobenzene | BRL | 5.0 | | ug/L | 218014 | 1 | 01/06/2016 18:29 | MD |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 218014 | 1 | 01/06/2016 18:29 | MD |
| 1,2-Dichloropropane | BRL | 5.0 | | ug/L | 218014 | 1 | 01/06/2016 18:29 | MD |
| 1,3-Dichlorobenzene | BRL | 5.0 | | ug/L | 218014 | 1 | 01/06/2016 18:29 | MD |
| 1,4-Dichlorobenzene | BRL | 5.0 | | ug/L | 218014 | 1 | 01/06/2016 18:29 | MD |
| 2-Butanone | BRL | 50 | | ug/L | 218014 | 1 | 01/06/2016 18:29 | MD |
| 2-Hexanone | BRL | 10 | | ug/L | 218014 | 1 | 01/06/2016 18:29 | MD |
| 4-Methyl-2-pentanone | BRL | 10 | | ug/L | 218014 | 1 | 01/06/2016 18:29 | MD |
| Acetone | BRL | 50 | | ug/L | 218014 | 1 | 01/06/2016 18:29 | MD |
| Benzene | BRL | 5.0 | | ug/L | 218014 | 1 | 01/06/2016 18:29 | MD |
| Bromodichloromethane | BRL | 5.0 | | ug/L | 218014 | 1 | 01/06/2016 18:29 | MD |
| Bromoform | BRL | 5.0 | | ug/L | 218014 | 1 | 01/06/2016 18:29 | MD |
| Bromomethane | BRL | 5.0 | | ug/L | 218014 | 1 | 01/06/2016 18:29 | MD |
| Carbon disulfide | BRL | 5.0 | | ug/L | 218014 | 1 | 01/06/2016 18:29 | MD |
| Carbon tetrachloride | BRL | 5.0 | | ug/L | 218014 | 1 | 01/06/2016 18:29 | MD |
| Chlorobenzene | BRL | 5.0 | | ug/L | 218014 | 1 | 01/06/2016 18:29 | MD |
| Chloroethane | BRL | 10 | | ug/L | 218014 | 1 | 01/06/2016 18:29 | MD |
| Chloroform | BRL | 5.0 | | ug/L | 218014 | 1 | 01/06/2016 18:29 | MD |
| Chloromethane | BRL | 10 | | ug/L | 218014 | 1 | 01/06/2016 18:29 | MD |
| cis-1,2-Dichloroethene | 11 | 5.0 | | ug/L | 218014 | 1 | 01/06/2016 18:29 | MD |
| cis-1,3-Dichloropropene | BRL | 5.0 | | ug/L | 218014 | 1 | 01/06/2016 18:29 | MD |
| Cyclohexane | BRL | 5.0 | | ug/L | 218014 | 1 | 01/06/2016 18:29 | MD |
| Dibromochloromethane | BRL | 5.0 | | ug/L | 218014 | 1 | 01/06/2016 18:29 | MD |
| Dichlorodifluoromethane | BRL | 10 | | ug/L | 218014 | 1 | 01/06/2016 18:29 | MD |
| Ethylbenzene | BRL | 5.0 | | ug/L | 218014 | 1 | 01/06/2016 18:29 | MD |
| Freon-113 | BRL | 10 | | ug/L | 218014 | 1 | 01/06/2016 18:29 | MD |
| Isopropylbenzene | BRL | 5.0 | | ug/L | 218014 | 1 | 01/06/2016 18:29 | MD |
| m,p-Xylene | BRL | 5.0 | | ug/L | 218014 | 1 | 01/06/2016 18:29 | MD |
| Methyl acetate | BRL | 5.0 | | ug/L | 218014 | 1 | 01/06/2016 18:29 | MD |
| Methyl tert-butyl ether | BRL | 5.0 | | ug/L | 218014 | 1 | 01/06/2016 18:29 | MD |
| Methylcyclohexane | BRL | 5.0 | | ug/L | 218014 | 1 | 01/06/2016 18:29 | MD |
| Methylene chloride | BRL | 5.0 | | ug/L | 218014 | 1 | 01/06/2016 18:29 | MD |
| o-Xylene | BRL | 5.0 | | ug/L | 218014 | 1 | 01/06/2016 18:29 | 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

**Analytical Environmental Services, Inc** **Date:** 12-Jan-16

| | | | |
|---|---|---|---|
| **Client:** | Arcadis | **Client Sample ID:** | MW-38 (123115) |
| **Project Name:** | Lafarge EP | **Collection Date:** | 12/31/2015 1:30:00 PM |
| **Lab ID:** | 1512Q21-002 | **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 | 218014 | 1 | 01/06/2016 18:29 | MD |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 218014 | 1 | 01/06/2016 18:29 | MD |
| Toluene | BRL | 5.0 | | ug/L | 218014 | 1 | 01/06/2016 18:29 | MD |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 218014 | 1 | 01/06/2016 18:29 | MD |
| trans-1,3-Dichloropropene | BRL | 5.0 | | ug/L | 218014 | 1 | 01/06/2016 18:29 | MD |
| Trichloroethene | 5.5 | 5.0 | | ug/L | 218014 | 1 | 01/06/2016 18:29 | MD |
| Trichlorofluoromethane | BRL | 5.0 | | ug/L | 218014 | 1 | 01/06/2016 18:29 | MD |
| Vinyl chloride | BRL | 2.0 | | ug/L | 218014 | 1 | 01/06/2016 18:29 | MD |
| Surr: 4-Bromofluorobenzene | 84.4 | 70.7-125 | | %REC | 218014 | 1 | 01/06/2016 18:29 | MD |
| Surr: Dibromofluoromethane | 108 | 82.2-120 | | %REC | 218014 | 1 | 01/06/2016 18:29 | MD |
| Surr: Toluene-d8 | 99.4 | 81.8-120 | | %REC | 218014 | 1 | 01/06/2016 18:29 | MD |

**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:** 12-Jan-16

| | | | |
|---|---|---|---|
| **Client:** | Arcadis | **Client Sample ID:** | IDW-1 (123115) |
| **Project Name:** | Lafarge EP | **Collection Date:** | 12/31/2015 1:45:00 PM |
| **Lab ID:** | 1512Q21-003 | **Matrix:** | Soil |

| Analyses | Result | Reporting Limit | Qual | Units | BatchID | Dilution Factor | Date Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|
| **VOLATILES, TCLP SW1311/8260B** | | | | **(SW5030B)** | | | | |
| 1,1-Dichloroethene | BRL | 0.10 | | mg/L | 218074 | 20 | 01/06/2016 13:37 | MD |
| 1,2-Dichloroethane | BRL | 0.10 | | mg/L | 218074 | 20 | 01/06/2016 13:37 | MD |
| 2-Butanone | BRL | 0.20 | | mg/L | 218074 | 20 | 01/06/2016 13:37 | MD |
| Benzene | BRL | 0.10 | | mg/L | 218074 | 20 | 01/06/2016 13:37 | MD |
| Carbon tetrachloride | BRL | 0.10 | | mg/L | 218074 | 20 | 01/06/2016 13:37 | MD |
| Chlorobenzene | BRL | 0.10 | | mg/L | 218074 | 20 | 01/06/2016 13:37 | MD |
| Chloroform | BRL | 0.10 | | mg/L | 218074 | 20 | 01/06/2016 13:37 | MD |
| Tetrachloroethene | BRL | 0.10 | | mg/L | 218074 | 20 | 01/06/2016 13:37 | MD |
| Trichloroethene | BRL | 0.10 | | mg/L | 218074 | 20 | 01/06/2016 13:37 | MD |
| Vinyl chloride | BRL | 0.040 | | mg/L | 218074 | 20 | 01/06/2016 13:37 | MD |
| Surr: 4-Bromofluorobenzene | 88.5 | 64-125 | | %REC | 218074 | 20 | 01/06/2016 13:37 | MD |
| Surr: Dibromofluoromethane | 97.1 | 73.7-128 | | %REC | 218074 | 20 | 01/06/2016 13:37 | MD |
| Surr: Toluene-d8 | 97.4 | 78.9-120 | | %REC | 218074 | 20 | 01/06/2016 13:37 | MD |
| **SEMIVOLATILES ORGANICS, TCLP SW1311/8270D** | | | | **(SW3510C)** | | | | |
| 1,4-Dichlorobenzene | BRL | 0.10 | | mg/L | 218081 | 1 | 01/07/2016 18:22 | EI |
| 2,4,5-Trichlorophenol | BRL | 0.10 | | mg/L | 218081 | 1 | 01/07/2016 18:22 | EI |
| 2,4,6-Trichlorophenol | BRL | 0.10 | | mg/L | 218081 | 1 | 01/07/2016 18:22 | EI |
| 2,4-Dinitrotoluene | BRL | 0.10 | | mg/L | 218081 | 1 | 01/07/2016 18:22 | EI |
| Hexachlorobenzene | BRL | 0.10 | | mg/L | 218081 | 1 | 01/07/2016 18:22 | EI |
| Hexachlorobutadiene | BRL | 0.10 | | mg/L | 218081 | 1 | 01/07/2016 18:22 | EI |
| Hexachloroethane | BRL | 0.10 | | mg/L | 218081 | 1 | 01/07/2016 18:22 | EI |
| m,p-Cresol | BRL | 0.10 | | mg/L | 218081 | 1 | 01/07/2016 18:22 | EI |
| Nitrobenzene | BRL | 0.10 | | mg/L | 218081 | 1 | 01/07/2016 18:22 | EI |
| o-Cresol | BRL | 0.10 | | mg/L | 218081 | 1 | 01/07/2016 18:22 | EI |
| Pentachlorophenol | BRL | 0.50 | | mg/L | 218081 | 1 | 01/07/2016 18:22 | EI |
| Pyridine | BRL | 0.10 | | mg/L | 218081 | 1 | 01/07/2016 18:22 | EI |
| Cresols, Total | BRL | 0.10 | | mg/L | 218081 | 1 | 01/07/2016 18:22 | EI |
| Surr: 2,4,6-Tribromophenol | 117 | 51-145 | | %REC | 218081 | 1 | 01/07/2016 18:22 | EI |
| Surr: 2-Fluorobiphenyl | 89.7 | 53.4-128 | | %REC | 218081 | 1 | 01/07/2016 18:22 | EI |
| Surr: 2-Fluorophenol | 84.3 | 44.4-127 | | %REC | 218081 | 1 | 01/07/2016 18:22 | EI |
| Surr: 4-Terphenyl-d14 | 99.3 | 50.3-134 | | %REC | 218081 | 1 | 01/07/2016 18:22 | EI |
| Surr: Nitrobenzene-d5 | 103 | 50.1-135 | | %REC | 218081 | 1 | 01/07/2016 18:22 | EI |
| Surr: Phenol-d5 | 88.7 | 47.5-131 | | %REC | 218081 | 1 | 01/07/2016 18:22 | EI |
| **MERCURY, TCLP SW1311/7470A** | | | | **(SW7470A)** | | | | |
| Mercury | BRL | 0.00400 | | mg/L | 218083 | 1 | 01/07/2016 13:44 | JR |
| **ICP METALS, TCLP SW1311/6010C** | | | | **(SW3010A)** | | | | |
| Arsenic | BRL | 0.250 | | mg/L | 218028 | 1 | 01/07/2016 14:50 | JL |
| Barium | 0.870 | 0.500 | | mg/L | 218028 | 1 | 01/07/2016 14:50 | JL |

**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:** 12-Jan-16

| | | | |
|---|---|---|---|
| **Client:** | Arcadis | **Client Sample ID:** | IDW-1 (123115) |
| **Project Name:** | Lafarge EP | **Collection Date:** | 12/31/2015 1:45:00 PM |
| **Lab ID:** | 1512Q21-003 | **Matrix:** | Soil |

| Analyses | Result | Reporting Limit | Qual | Units | BatchID | Dilution Factor | Date Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|
| **ICP METALS, TCLP SW1311/6010C** | | | | **(SW3010A)** | | | | |
| Cadmium | BRL | 0.0250 | | mg/L | 218028 | 1 | 01/07/2016 14:50 | JL |
| Chromium | BRL | 0.0500 | | mg/L | 218028 | 1 | 01/07/2016 14:50 | JL |
| Lead | BRL | 0.0500 | | mg/L | 218028 | 1 | 01/07/2016 14:50 | JL |
| Selenium | BRL | 0.100 | | mg/L | 218028 | 1 | 01/07/2016 14:50 | JL |
| Silver | BRL | 0.0250 | | mg/L | 218028 | 1 | 01/07/2016 14:50 | 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:** 12-Jan-16

| | | | |
|---|---|---|---|
| **Client:** | Arcadis | **Client Sample ID:** | TRIP BLANK |
| **Project Name:** | Lafarge EP | **Collection Date:** | 12/31/2015 |
| **Lab ID:** | 1512Q21-004 | **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 | 218014 | 1 | 01/05/2016 15:54 | NP |
| 1,1,2,2-Tetrachloroethane | BRL | 5.0 | | ug/L | 218014 | 1 | 01/05/2016 15:54 | NP |
| 1,1,2-Trichloroethane | BRL | 5.0 | | ug/L | 218014 | 1 | 01/05/2016 15:54 | NP |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 218014 | 1 | 01/05/2016 15:54 | NP |
| 1,1-Dichloroethene | BRL | 5.0 | | ug/L | 218014 | 1 | 01/05/2016 15:54 | NP |
| 1,2,4-Trichlorobenzene | BRL | 5.0 | | ug/L | 218014 | 1 | 01/05/2016 15:54 | NP |
| 1,2-Dibromo-3-chloropropane | BRL | 5.0 | | ug/L | 218014 | 1 | 01/05/2016 15:54 | NP |
| 1,2-Dibromoethane | BRL | 5.0 | | ug/L | 218014 | 1 | 01/05/2016 15:54 | NP |
| 1,2-Dichlorobenzene | BRL | 5.0 | | ug/L | 218014 | 1 | 01/05/2016 15:54 | NP |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 218014 | 1 | 01/05/2016 15:54 | NP |
| 1,2-Dichloropropane | BRL | 5.0 | | ug/L | 218014 | 1 | 01/05/2016 15:54 | NP |
| 1,3-Dichlorobenzene | BRL | 5.0 | | ug/L | 218014 | 1 | 01/05/2016 15:54 | NP |
| 1,4-Dichlorobenzene | BRL | 5.0 | | ug/L | 218014 | 1 | 01/05/2016 15:54 | NP |
| 2-Butanone | BRL | 50 | | ug/L | 218014 | 1 | 01/05/2016 15:54 | NP |
| 2-Hexanone | BRL | 10 | | ug/L | 218014 | 1 | 01/05/2016 15:54 | NP |
| 4-Methyl-2-pentanone | BRL | 10 | | ug/L | 218014 | 1 | 01/05/2016 15:54 | NP |
| Acetone | BRL | 50 | | ug/L | 218014 | 1 | 01/05/2016 15:54 | NP |
| Benzene | BRL | 5.0 | | ug/L | 218014 | 1 | 01/05/2016 15:54 | NP |
| Bromodichloromethane | BRL | 5.0 | | ug/L | 218014 | 1 | 01/05/2016 15:54 | NP |
| Bromoform | BRL | 5.0 | | ug/L | 218014 | 1 | 01/05/2016 15:54 | NP |
| Bromomethane | BRL | 5.0 | | ug/L | 218014 | 1 | 01/05/2016 15:54 | NP |
| Carbon disulfide | BRL | 5.0 | | ug/L | 218014 | 1 | 01/05/2016 15:54 | NP |
| Carbon tetrachloride | BRL | 5.0 | | ug/L | 218014 | 1 | 01/05/2016 15:54 | NP |
| Chlorobenzene | BRL | 5.0 | | ug/L | 218014 | 1 | 01/05/2016 15:54 | NP |
| Chloroethane | BRL | 10 | | ug/L | 218014 | 1 | 01/05/2016 15:54 | NP |
| Chloroform | BRL | 5.0 | | ug/L | 218014 | 1 | 01/05/2016 15:54 | NP |
| Chloromethane | BRL | 10 | | ug/L | 218014 | 1 | 01/05/2016 15:54 | NP |
| cis-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 218014 | 1 | 01/05/2016 15:54 | NP |
| cis-1,3-Dichloropropene | BRL | 5.0 | | ug/L | 218014 | 1 | 01/05/2016 15:54 | NP |
| Cyclohexane | BRL | 5.0 | | ug/L | 218014 | 1 | 01/05/2016 15:54 | NP |
| Dibromochloromethane | BRL | 5.0 | | ug/L | 218014 | 1 | 01/05/2016 15:54 | NP |
| Dichlorodifluoromethane | BRL | 10 | | ug/L | 218014 | 1 | 01/05/2016 15:54 | NP |
| Ethylbenzene | BRL | 5.0 | | ug/L | 218014 | 1 | 01/05/2016 15:54 | NP |
| Freon-113 | BRL | 10 | | ug/L | 218014 | 1 | 01/05/2016 15:54 | NP |
| Isopropylbenzene | BRL | 5.0 | | ug/L | 218014 | 1 | 01/05/2016 15:54 | NP |
| m,p-Xylene | BRL | 5.0 | | ug/L | 218014 | 1 | 01/05/2016 15:54 | NP |
| Methyl acetate | BRL | 5.0 | | ug/L | 218014 | 1 | 01/05/2016 15:54 | NP |
| Methyl tert-butyl ether | BRL | 5.0 | | ug/L | 218014 | 1 | 01/05/2016 15:54 | NP |
| Methylcyclohexane | BRL | 5.0 | | ug/L | 218014 | 1 | 01/05/2016 15:54 | NP |
| Methylene chloride | BRL | 5.0 | | ug/L | 218014 | 1 | 01/05/2016 15:54 | NP |
| o-Xylene | BRL | 5.0 | | ug/L | 218014 | 1 | 01/05/2016 15:54 | 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:** 12-Jan-16

| | | | |
|---|---|---|---|
| **Client:** | Arcadis | **Client Sample ID:** | TRIP BLANK |
| **Project Name:** | Lafarge EP | **Collection Date:** | 12/31/2015 |
| **Lab ID:** | 1512Q21-004 | **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 | 218014 | 1 | 01/05/2016 15:54 | NP |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 218014 | 1 | 01/05/2016 15:54 | NP |
| Toluene | BRL | 5.0 | | ug/L | 218014 | 1 | 01/05/2016 15:54 | NP |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 218014 | 1 | 01/05/2016 15:54 | NP |
| trans-1,3-Dichloropropene | BRL | 5.0 | | ug/L | 218014 | 1 | 01/05/2016 15:54 | NP |
| Trichloroethene | BRL | 5.0 | | ug/L | 218014 | 1 | 01/05/2016 15:54 | NP |
| Trichlorofluoromethane | BRL | 5.0 | | ug/L | 218014 | 1 | 01/05/2016 15:54 | NP |
| Vinyl chloride | BRL | 2.0 | | ug/L | 218014 | 1 | 01/05/2016 15:54 | NP |
| Surr: 4-Bromofluorobenzene | 80.1 | 70.7-125 | | %REC | 218014 | 1 | 01/05/2016 15:54 | NP |
| Surr: Dibromofluoromethane | 97.9 | 82.2-120 | | %REC | 218014 | 1 | 01/05/2016 15:54 | NP |
| Surr: Toluene-d8 | 94.5 | 81.8-120 | | %REC | 218014 | 1 | 01/05/2016 15:54 | 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 1512024

Checklist completed by Mausami Rawat 12/30/2015
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 3.4°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 __ MP 12/31 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.

\\Aes_server\I\Sample Receipt\My Documents\COCs and pH Adjustment Sheet\Sample_Cooler_Recipt_Checklist_Rev1.rtf

**Client:** Arcadis
**Project Name:** Lafarge EP
**Workorder:** 1512Q21

# ANALYTICAL QC SUMMARY REPORT

**BatchID: 218014**

Sample ID: **MB-218014** Client ID: Units: **ug/L** Prep Date: **01/05/2016** Run No: **307595**
SampleType: **MBLK** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **218014** Analysis Date: **01/05/2016** Seq No: **6603215**

| 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:** 1512Q21

# ANALYTICAL QC SUMMARY REPORT

**BatchID: 218014**

Sample ID: **MB-218014** Client ID: Units: **ug/L** Prep Date: **01/05/2016** Run No: **307595**
SampleType: **MBLK** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **218014** Analysis Date: **01/05/2016** Seq No: **6603215**

| 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 | 45.75 | 0 | 50.00 | | 91.5 | 70.7 | 125 | | | | |
| Surr: Dibromofluoromethane | 55.83 | 0 | 50.00 | | 112 | 82.2 | 120 | | | | |
| Surr: Toluene-d8 | 49.26 | 0 | 50.00 | | 98.5 | 81.8 | 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:** 1512Q21

# ANALYTICAL QC SUMMARY REPORT

**BatchID: 218014**

Sample ID: **LCS-218014** Client ID: Units: **ug/L** Prep Date: **01/05/2016** Run No: **307595**
SampleType: **LCS** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **218014** Analysis Date: **01/05/2016** Seq No: **6603214**

| Analyte | Result | RPT Limit | SPK value | SPK Ref Val | %REC | Low Limit | High Limit | RPD Ref Val | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 56.82 | 5.0 | 50.00 | | 114 | 65.3 | 137 | | | | |
| Benzene | 58.14 | 5.0 | 50.00 | | 116 | 74.9 | 123 | | | | |
| Chlorobenzene | 52.74 | 5.0 | 50.00 | | 105 | 73.9 | 124 | | | | |
| Toluene | 55.70 | 5.0 | 50.00 | | 111 | 75 | 124 | | | | |
| Trichloroethene | 57.56 | 5.0 | 50.00 | | 115 | 73.1 | 128 | | | | |
| Surr: 4-Bromofluorobenzene | 44.32 | 0 | 50.00 | | 88.6 | 70.7 | 125 | | | | |
| Surr: Dibromofluoromethane | 51.93 | 0 | 50.00 | | 104 | 82.2 | 120 | | | | |
| Surr: Toluene-d8 | 51.45 | 0 | 50.00 | | 103 | 81.8 | 120 | | | | |

Sample ID: **1601156-001AMS** Client ID: Units: **ug/L** Prep Date: **01/05/2016** Run No: **307719**
SampleType: **MS** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **218014** Analysis Date: **01/05/2016** Seq No: **6604592**

| Analyte | Result | RPT Limit | SPK value | SPK Ref Val | %REC | Low Limit | High Limit | RPD Ref Val | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 60.40 | 5.0 | 50.00 | | 121 | 60 | 150 | | | | |
| Benzene | 60.84 | 5.0 | 50.00 | | 122 | 70.1 | 132 | | | | |
| Chlorobenzene | 52.72 | 5.0 | 50.00 | | 105 | 70.9 | 131 | | | | |
| Toluene | 58.87 | 5.0 | 50.00 | | 118 | 70.1 | 133 | | | | |
| Trichloroethene | 57.43 | 5.0 | 50.00 | | 115 | 70 | 136 | | | | |
| Surr: 4-Bromofluorobenzene | 41.65 | 0 | 50.00 | | 83.3 | 70.7 | 125 | | | | |
| Surr: Dibromofluoromethane | 54.26 | 0 | 50.00 | | 109 | 82.2 | 120 | | | | |
| Surr: Toluene-d8 | 52.59 | 0 | 50.00 | | 105 | 81.8 | 120 | | | | |

Sample ID: **1601156-001AMSD** Client ID: Units: **ug/L** Prep Date: **01/05/2016** Run No: **307719**
SampleType: **MSD** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **218014** Analysis Date: **01/06/2016** Seq No: **6604593**

| Analyte | Result | RPT Limit | SPK value | SPK Ref Val | %REC | Low Limit | High Limit | RPD Ref Val | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 53.06 | 5.0 | 50.00 | | 106 | 60 | 150 | 60.40 | 12.9 | 17.7 | |
| Benzene | 55.29 | 5.0 | 50.00 | | 111 | 70.1 | 132 | 60.84 | 9.56 | 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:** 1512Q21

# ANALYTICAL QC SUMMARY REPORT

**BatchID: 218014**

Sample ID: **1601156-001AMSD** Client ID:
SampleType: **MSD** TestCode: **TCL VOLATILE ORGANICS SW8260B**
Units: **ug/L** Prep Date: **01/05/2016** Run No: **307719**
BatchID: **218014** Analysis Date: **01/06/2016** Seq No: **6604593**

| Analyte | Result | RPT Limit | SPK value | SPK Ref Val | %REC | Low Limit | High Limit | RPD Ref Val | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chlorobenzene | 50.01 | 5.0 | 50.00 | | 100 | 70.9 | 131 | 52.72 | 5.28 | 20 | |
| Toluene | 52.45 | 5.0 | 50.00 | | 105 | 70.1 | 133 | 58.87 | 11.5 | 20 | |
| Trichloroethene | 52.70 | 5.0 | 50.00 | | 105 | 70 | 136 | 57.43 | 8.59 | 20 | |
| Surr: 4-Bromofluorobenzene | 42.88 | 0 | 50.00 | | 85.8 | 70.7 | 125 | 41.65 | 0 | 0 | |
| Surr: Dibromofluoromethane | 50.38 | 0 | 50.00 | | 101 | 82.2 | 120 | 54.26 | 0 | 0 | |
| Surr: Toluene-d8 | 49.21 | 0 | 50.00 | | 98.4 | 81.8 | 120 | 52.59 | 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:** 1512Q21

# ANALYTICAL QC SUMMARY REPORT

**BatchID: 218028**

Sample ID: **MB-218028** Client ID: Units: **mg/L** Prep Date: **01/07/2016** Run No: **307813**
SampleType: **MBLK** TestCode: **ICP METALS, TCLP SW1311/6010C** BatchID: **218028** Analysis Date: **01/07/2016** Seq No: **6606925**

| 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-218028-2** Client ID: Units: **mg/L** Prep Date: **01/07/2016** Run No: **307813**
SampleType: **MBLK** TestCode: **ICP METALS, TCLP SW1311/6010C** BatchID: **218028** Analysis Date: **01/07/2016** Seq No: **6606926**

| 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-218028** Client ID: Units: **mg/L** Prep Date: **01/07/2016** Run No: **307813**
SampleType: **LCS** TestCode: **ICP METALS, TCLP SW1311/6010C** BatchID: **218028** Analysis Date: **01/07/2016** Seq No: **6606927**

| Analyte | Result | RPT Limit | SPK value | SPK Ref Val | %REC | Low Limit | High Limit | RPD Ref Val | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 4.830 | 0.250 | 5.000 | | 96.6 | 80 | 120 | | | | |
| Barium | 4.491 | 0.500 | 5.000 | 0.03235 | 89.2 | 80 | 120 | | | | |
| Cadmium | 4.737 | 0.0250 | 5.000 | | 94.7 | 80 | 120 | | | | |
| Chromium | 4.389 | 0.0500 | 5.000 | | 87.8 | 80 | 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:** 1512Q21

# ANALYTICAL QC SUMMARY REPORT

**BatchID: 218028**

Sample ID: **LCS-218028** Client ID: Units: **mg/L** Prep Date: **01/07/2016** Run No: **307813**
SampleType: **LCS** TestCode: **ICP METALS, TCLP SW1311/6010C** BatchID: **218028** Analysis Date: **01/07/2016** Seq No: **6606927**

| Analyte | Result | RPT Limit | SPK value | SPK Ref Val | %REC | Low Limit | High Limit | RPD Ref Val | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lead | 4.336 | 0.0500 | 5.000 | | 86.7 | 80 | 120 | | | | |
| Selenium | 4.855 | 0.100 | 5.000 | | 97.1 | 80 | 120 | | | | |
| Silver | 0.4767 | 0.0250 | 0.5000 | | 95.3 | 80 | 120 | | | | |

Sample ID: **1601119-002AMS** Client ID: Units: **mg/L** Prep Date: **01/07/2016** Run No: **307813**
SampleType: **MS** TestCode: **ICP METALS, TCLP SW1311/6010C** BatchID: **218028** Analysis Date: **01/07/2016** Seq No: **6606929**

| Analyte | Result | RPT Limit | SPK value | SPK Ref Val | %REC | Low Limit | High Limit | RPD Ref Val | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 4.712 | 0.250 | 5.000 | 0.04790 | 93.3 | 50 | 150 | | | | |
| Barium | 4.555 | 0.500 | 5.000 | 0.4990 | 81.1 | 50 | 150 | | | | |
| Cadmium | 4.569 | 0.0250 | 5.000 | 0.1252 | 88.9 | 50 | 150 | | | | |
| Chromium | 4.050 | 0.0500 | 5.000 | | 81.0 | 50 | 150 | | | | |
| Lead | 4.045 | 0.0500 | 5.000 | | 80.9 | 50 | 150 | | | | |
| Selenium | 4.620 | 0.100 | 5.000 | 0.01980 | 92.0 | 50 | 150 | | | | |
| Silver | 0.4597 | 0.0250 | 0.5000 | | 91.9 | 50 | 150 | | | | |

Sample ID: **1601119-002AMSD** Client ID: Units: **mg/L** Prep Date: **01/07/2016** Run No: **307813**
SampleType: **MSD** TestCode: **ICP METALS, TCLP SW1311/6010C** BatchID: **218028** Analysis Date: **01/07/2016** Seq No: **6606930**

| Analyte | Result | RPT Limit | SPK value | SPK Ref Val | %REC | Low Limit | High Limit | RPD Ref Val | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 4.730 | 0.250 | 5.000 | 0.04790 | 93.6 | 50 | 150 | 4.712 | 0.368 | 30 | |
| Barium | 4.548 | 0.500 | 5.000 | 0.4990 | 81.0 | 50 | 150 | 4.555 | 0.164 | 30 | |
| Cadmium | 4.597 | 0.0250 | 5.000 | 0.1252 | 89.4 | 50 | 150 | 4.569 | 0.602 | 30 | |
| Chromium | 4.049 | 0.0500 | 5.000 | | 81.0 | 50 | 150 | 4.050 | 0.020 | 30 | |
| Lead | 4.069 | 0.0500 | 5.000 | | 81.4 | 50 | 150 | 4.045 | 0.593 | 30 | |
| Selenium | 4.677 | 0.100 | 5.000 | 0.01980 | 93.1 | 50 | 150 | 4.620 | 1.22 | 30 | |
| Silver | 0.4620 | 0.0250 | 0.5000 | | 92.4 | 50 | 150 | 0.4597 | 0.499 | 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:** 1512Q21

# ANALYTICAL QC SUMMARY REPORT

**BatchID: 218074**

Sample ID: **MB-218074** Client ID: Units: **mg/L** Prep Date: **01/06/2016** Run No: **307720**
SampleType: **MBLK** TestCode: **VOLATILES, TCLP SW1311/8260B** BatchID: **218074** Analysis Date: **01/06/2016** Seq No: **6604971**

| 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 | 0.8758 | 0 | 1.000 | | 87.6 | 64 | 125 | | | | |
| Surr: Dibromofluoromethane | 0.9640 | 0 | 1.000 | | 96.4 | 73.7 | 128 | | | | |
| Surr: Toluene-d8 | 1.010 | 0 | 1.000 | | 101 | 78.9 | 120 | | | | |

Sample ID: **LCS-218074** Client ID: Units: **mg/L** Prep Date: **01/06/2016** Run No: **307720**
SampleType: **LCS** TestCode: **VOLATILES, TCLP SW1311/8260B** BatchID: **218074** Analysis Date: **01/06/2016** Seq No: **6604972**

| Analyte | Result | RPT Limit | SPK value | SPK Ref Val | %REC | Low Limit | High Limit | RPD Ref Val | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 0.9308 | 0.10 | 1.000 | | 93.1 | 58 | 134 | | | | |
| 1,2-Dichloroethane | 1.174 | 0.10 | 1.000 | | 117 | 65 | 133 | | | | |
| 2-Butanone | 2.249 | 0.20 | 2.000 | | 112 | 47.2 | 141 | | | | |
| Benzene | 1.066 | 0.10 | 1.000 | | 107 | 74.1 | 126 | | | | |
| Carbon tetrachloride | 0.8876 | 0.10 | 1.000 | | 88.8 | 68.7 | 145 | | | | |
| Chlorobenzene | 0.9206 | 0.10 | 1.000 | | 92.1 | 77.6 | 124 | | | | |
| Chloroform | 1.081 | 0.10 | 1.000 | | 108 | 66.9 | 123 | | | | |
| Tetrachloroethene | 0.9558 | 0.10 | 1.000 | | 95.6 | 72.7 | 134 | | | | |
| Trichloroethene | 0.9966 | 0.10 | 1.000 | | 99.7 | 77.1 | 129 | | | | |
| Vinyl chloride | 0.8954 | 0.040 | 1.000 | | 89.5 | 54.3 | 136 | | | | |

**Qualifiers:**

| | | | | | |
|---|---|---|---|---|---|
| > | Greater than Result value | < | Less than Result value | B | Analyte detected in the associated method blank |
| BRL | Below reporting limit | E | Estimated (value above quantitation range) | H | Holding times for preparation or analysis exceeded |
| J | Estimated value detected below Reporting Limit | N | Analyte not NELAC certified | 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:** 1512Q21

# ANALYTICAL QC SUMMARY REPORT

**BatchID: 218074**

Sample ID: **LCS-218074** Client ID: Units: **mg/L** Prep Date: **01/06/2016** Run No: **307720**
SampleType: **LCS** TestCode: **VOLATILES, TCLP SW1311/8260B** BatchID: **218074** Analysis Date: **01/06/2016** Seq No: **6604972**

| Analyte | Result | RPT Limit | SPK value | SPK Ref Val | %REC | Low Limit | High Limit | RPD Ref Val | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Surr: 4-Bromofluorobenzene | 0.9740 | 0 | 1.000 | | 97.4 | 64 | 125 | | | | |
| Surr: Dibromofluoromethane | 1.015 | 0 | 1.000 | | 102 | 73.7 | 128 | | | | |
| Surr: Toluene-d8 | 1.035 | 0 | 1.000 | | 104 | 78.9 | 120 | | | | |

Sample ID: **1512Q30-001AMS** Client ID: Units: **mg/L** Prep Date: **01/06/2016** Run No: **307720**
SampleType: **MS** TestCode: **VOLATILES, TCLP SW1311/8260B** BatchID: **218074** Analysis Date: **01/06/2016** Seq No: **6604976**

| Analyte | Result | RPT Limit | SPK value | SPK Ref Val | %REC | Low Limit | High Limit | RPD Ref Val | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 0.9192 | 0.10 | 1.000 | | 91.9 | 62.5 | 139 | | | | |
| 1,2-Dichloroethane | 1.109 | 0.10 | 1.000 | | 111 | 65.4 | 135 | | | | |
| 2-Butanone | 2.776 | 0.20 | 2.000 | | 139 | 50.4 | 144 | | | | |
| Benzene | 1.002 | 0.10 | 1.000 | | 100 | 71.3 | 134 | | | | |
| Carbon tetrachloride | 0.8312 | 0.10 | 1.000 | | 83.1 | 70.7 | 143 | | | | |
| Chlorobenzene | 0.8306 | 0.10 | 1.000 | | 83.1 | 74.5 | 129 | | | | |
| Chloroform | 1.132 | 0.10 | 1.000 | | 113 | 64.4 | 131 | | | | |
| Tetrachloroethene | 0.7878 | 0.10 | 1.000 | | 78.8 | 75.1 | 136 | | | | |
| Trichloroethene | 0.9100 | 0.10 | 1.000 | | 91.0 | 75.3 | 137 | | | | |
| Vinyl chloride | 0.9422 | 0.040 | 1.000 | | 94.2 | 50.1 | 143 | | | | |
| Surr: 4-Bromofluorobenzene | 0.9728 | 0 | 1.000 | | 97.3 | 64 | 125 | | | | |
| Surr: Dibromofluoromethane | 1.087 | 0 | 1.000 | | 109 | 73.7 | 128 | | | | |
| Surr: Toluene-d8 | 1.049 | 0 | 1.000 | | 105 | 78.9 | 120 | | | | |

Sample ID: **1512Q30-001ADUP** Client ID: Units: **mg/L** Prep Date: **01/06/2016** Run No: **307720**
SampleType: **DUP** TestCode: **VOLATILES, TCLP SW1311/8260B** BatchID: **218074** Analysis Date: **01/06/2016** Seq No: **6604975**

| 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:** 1512Q21

# ANALYTICAL QC SUMMARY REPORT

**BatchID: 218074**

Sample ID: **1512Q30-001ADUP** Client ID:
SampleType: **DUP** TestCode: **VOLATILES, TCLP SW1311/8260B**
Units: **mg/L** Prep Date: **01/06/2016** Run No: **307720**
BatchID: **218074** Analysis Date: **01/06/2016** Seq No: **6604975**

| 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 | 0.8652 | 0 | 1.000 | | 86.5 | 64 | 125 | 0 | 0 | 0 | |
| Surr: Dibromofluoromethane | 1.067 | 0 | 1.000 | | 107 | 73.7 | 128 | 0 | 0 | 0 | |
| Surr: Toluene-d8 | 1.067 | 0 | 1.000 | | 107 | 78.9 | 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:** 1512Q21

# ANALYTICAL QC SUMMARY REPORT

**BatchID: 218081**

Sample ID: **MB-218081** Client ID: Units: **mg/L** Prep Date: **01/07/2016** Run No: **307864**
SampleType: **MBLK** TestCode: **SEMIVOLATILES ORGANICS, TCLP SW1311/8270D** BatchID: **218081** Analysis Date: **01/07/2016** Seq No: **6607204**

| 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 | 1.144 | 0 | 1.000 | | 114 | 51 | 145 | | | | |
| Surr: 2-Fluorobiphenyl | 0.4506 | 0 | 0.5000 | | 90.1 | 53.4 | 128 | | | | |
| Surr: 2-Fluorophenol | 0.8514 | 0 | 1.000 | | 85.1 | 44.4 | 127 | | | | |
| Surr: 4-Terphenyl-d14 | 0.4894 | 0 | 0.5000 | | 97.9 | 50.3 | 134 | | | | |
| Surr: Nitrobenzene-d5 | 0.5091 | 0 | 0.5000 | | 102 | 50.1 | 135 | | | | |
| Surr: Phenol-d5 | 0.8692 | 0 | 1.000 | | 86.9 | 47.5 | 131 | | | | |

Sample ID: **MB-218081-2** Client ID: Units: **mg/L** Prep Date: **01/07/2016** Run No: **307864**
SampleType: **MBLK** TestCode: **SEMIVOLATILES ORGANICS, TCLP SW1311/8270D** BatchID: **218081** Analysis Date: **01/07/2016** Seq No: **6607205**

| 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 | | | | | | | | | |

**Qualifiers:**

| | | | | | |
|---|---|---|---|---|---|
| > | Greater than Result value | < | Less than Result value | B | Analyte detected in the associated method blank |
| BRL | Below reporting limit | E | Estimated (value above quantitation range) | H | Holding times for preparation or analysis exceeded |
| J | Estimated value detected below Reporting Limit | N | Analyte not NELAC certified | 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:** 1512Q21

# ANALYTICAL QC SUMMARY REPORT

**BatchID: 218081**

Sample ID: **MB-218081-2** Client ID: Units: **mg/L** Prep Date: **01/07/2016** Run No: **307864**
SampleType: **MBLK** TestCode: **SEMIVOLATILES ORGANICS, TCLP SW1311/8270D** BatchID: **218081** Analysis Date: **01/07/2016** Seq No: **6607205**

| Analyte | Result | RPT Limit | SPK value | SPK Ref Val | %REC | Low Limit | High Limit | RPD Ref Val | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 | 1.137 | 0 | 1.000 | | 114 | 51 | 145 | | | | |
| Surr: 2-Fluorobiphenyl | 0.4493 | 0 | 0.5000 | | 89.9 | 53.4 | 128 | | | | |
| Surr: 2-Fluorophenol | 0.8349 | 0 | 1.000 | | 83.5 | 44.4 | 127 | | | | |
| Surr: 4-Terphenyl-d14 | 0.4866 | 0 | 0.5000 | | 97.3 | 50.3 | 134 | | | | |
| Surr: Nitrobenzene-d5 | 0.5053 | 0 | 0.5000 | | 101 | 50.1 | 135 | | | | |
| Surr: Phenol-d5 | 0.8708 | 0 | 1.000 | | 87.1 | 47.5 | 131 | | | | |

Sample ID: **LCS-218081** Client ID: Units: **mg/L** Prep Date: **01/07/2016** Run No: **307875**
SampleType: **LCS** TestCode: **SEMIVOLATILES ORGANICS, TCLP SW1311/8270D** BatchID: **218081** Analysis Date: **01/08/2016** Seq No: **6607707**

| Analyte | Result | RPT Limit | SPK value | SPK Ref Val | %REC | Low Limit | High Limit | RPD Ref Val | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,4-Dichlorobenzene | 0.9239 | 0.10 | 1.000 | | 92.4 | 60.7 | 121 | | | | |
| 2,4,5-Trichlorophenol | 0.9428 | 0.10 | 1.000 | | 94.3 | 64 | 127 | | | | |
| 2,4,6-Trichlorophenol | 0.9708 | 0.10 | 1.000 | | 97.1 | 73.4 | 129 | | | | |
| 2,4-Dinitrotoluene | 0.9360 | 0.10 | 1.000 | | 93.6 | 66 | 134 | | | | |
| Cresols, Total | 2.784 | 0.10 | 3.000 | | 92.8 | 62.9 | 132 | | | | |
| Hexachlorobenzene | 0.9483 | 0.10 | 1.000 | | 94.8 | 68.8 | 132 | | | | |
| Hexachlorobutadiene | 0.9696 | 0.10 | 1.000 | | 97.0 | 53.5 | 130 | | | | |
| Hexachloroethane | 0.9394 | 0.10 | 1.000 | | 93.9 | 56.4 | 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 EP
**Workorder:** 1512Q21

# ANALYTICAL QC SUMMARY REPORT

**BatchID: 218081**

Sample ID: **LCS-218081** Client ID: Units: **mg/L** Prep Date: **01/07/2016** Run No: **307875**
SampleType: **LCS** TestCode: **SEMIVOLATILES ORGANICS, TCLP SW1311/8270D** BatchID: **218081** Analysis Date: **01/08/2016** Seq No: **6607707**

| Analyte | Result | RPT Limit | SPK value | SPK Ref Val | %REC | Low Limit | High Limit | RPD Ref Val | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| m,p-Cresol | 1.883 | 0.10 | 2.000 | | 94.2 | 62.9 | 132 | | | | |
| Nitrobenzene | 0.9790 | 0.10 | 1.000 | | 97.9 | 65.6 | 131 | | | | |
| o-Cresol | 0.9011 | 0.10 | 1.000 | | 90.1 | 62 | 131 | | | | |
| Pentachlorophenol | 0.8635 | 0.50 | 1.000 | | 86.4 | 45 | 133 | | | | |
| Pyridine | 0.6107 | 0.10 | 1.000 | | 61.1 | 10 | 120 | | | | |
| Surr: 2,4,6-Tribromophenol | 1.021 | 0 | 1.000 | | 102 | 51 | 145 | | | | |
| Surr: 2-Fluorobiphenyl | 0.5104 | 0 | 0.5000 | | 102 | 53.4 | 128 | | | | |
| Surr: 2-Fluorophenol | 0.9184 | 0 | 1.000 | | 91.8 | 44.4 | 127 | | | | |
| Surr: 4-Terphenyl-d14 | 0.5038 | 0 | 0.5000 | | 101 | 50.3 | 134 | | | | |
| Surr: Nitrobenzene-d5 | 0.4902 | 0 | 0.5000 | | 98.0 | 50.1 | 135 | | | | |
| Surr: Phenol-d5 | 0.9668 | 0 | 1.000 | | 96.7 | 47.5 | 131 | | | | |

Sample ID: **1512Q21-003BMS** Client ID: **IDW-1 (123115)** Units: **mg/L** Prep Date: **01/07/2016** Run No: **307864**
SampleType: **MS** TestCode: **SEMIVOLATILES ORGANICS, TCLP SW1311/8270D** BatchID: **218081** Analysis Date: **01/07/2016** Seq No: **6607209**

| Analyte | Result | RPT Limit | SPK value | SPK Ref Val | %REC | Low Limit | High Limit | RPD Ref Val | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,4-Dichlorobenzene | 0.5641 | 0.10 | 1.000 | | 56.4 | 50.1 | 116 | | | | |
| 2,4,5-Trichlorophenol | 0.8642 | 0.10 | 1.000 | | 86.4 | 56.6 | 122 | | | | |
| 2,4,6-Trichlorophenol | 0.9414 | 0.10 | 1.000 | | 94.1 | 64.1 | 124 | | | | |
| 2,4-Dinitrotoluene | 1.007 | 0.10 | 1.000 | | 101 | 48.4 | 131 | | | | |
| Cresols, Total | 2.781 | 0.10 | 3.000 | | 92.7 | 37.8 | 139 | | | | |
| Hexachlorobenzene | 1.081 | 0.10 | 1.000 | | 108 | 53.1 | 130 | | | | |
| Hexachlorobutadiene | 0.4733 | 0.10 | 1.000 | | 47.3 | 42.7 | 121 | | | | |
| Hexachloroethane | 0.4960 | 0.10 | 1.000 | | 49.6 | 46.4 | 121 | | | | |
| m,p-Cresol | 1.858 | 0.10 | 2.000 | | 92.9 | 53 | 129 | | | | |
| Nitrobenzene | 0.9603 | 0.10 | 1.000 | | 96.0 | 49.5 | 129 | | | | |
| o-Cresol | 0.9223 | 0.10 | 1.000 | | 92.2 | 36.8 | 138 | | | | |
| Pentachlorophenol | 1.024 | 0.50 | 1.000 | | 102 | 40 | 131 | | | | |

**Qualifiers:**

| | | | | | |
|---|---|---|---|---|---|
| > | Greater than Result value | < | Less than Result value | B | Analyte detected in the associated method blank |
| BRL | Below reporting limit | E | Estimated (value above quantitation range) | H | Holding times for preparation or analysis exceeded |
| J | Estimated value detected below Reporting Limit | N | Analyte not NELAC certified | 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:** 1512Q21

# ANALYTICAL QC SUMMARY REPORT

**BatchID: 218081**

Sample ID: **1512Q21-003BMS** Client ID: **IDW-1 (123115)** Units: **mg/L** Prep Date: **01/07/2016** Run No: **307864**
SampleType: **MS** TestCode: **SEMIVOLATILES ORGANICS, TCLP SW1311/8270D** BatchID: **218081** Analysis Date: **01/07/2016** Seq No: **6607209**

| Analyte | Result | RPT Limit | SPK value | SPK Ref Val | %REC | Low Limit | High Limit | RPD Ref Val | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Pyridine | BRL | 0.10 | 1.000 | | 0 | 10 | 120 | | | | S |
| Surr: 2,4,6-Tribromophenol | 1.251 | 0 | 1.000 | | 125 | 51 | 145 | | | | |
| Surr: 2-Fluorobiphenyl | 0.4828 | 0 | 0.5000 | | 96.6 | 53.4 | 128 | | | | |
| Surr: 2-Fluorophenol | 0.8721 | 0 | 1.000 | | 87.2 | 44.4 | 127 | | | | |
| Surr: 4-Terphenyl-d14 | 0.5090 | 0 | 0.5000 | | 102 | 50.3 | 134 | | | | |
| Surr: Nitrobenzene-d5 | 0.5462 | 0 | 0.5000 | | 109 | 50.1 | 135 | | | | |
| Surr: Phenol-d5 | 0.9323 | 0 | 1.000 | | 93.2 | 47.5 | 131 | | | | |

**Qualifiers:**

| | | | | | |
|---|---|---|---|---|---|
| > | Greater than Result value | < | Less than Result value | B | Analyte detected in the associated method blank |
| BRL | Below reporting limit | E | Estimated (value above quantitation range) | H | Holding times for preparation or analysis exceeded |
| J | Estimated value detected below Reporting Limit | N | Analyte not NELAC certified | 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:** 1512Q21

# ANALYTICAL QC SUMMARY REPORT

**BatchID: 218083**

Sample ID: **MB-218083** Client ID: Units: **mg/L** Prep Date: **01/07/2016** Run No: **307778**
SampleType: **MBLK** TestCode: **MERCURY, TCLP SW1311/7470A** BatchID: **218083** Analysis Date: **01/07/2016** Seq No: **6606130**

| 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-218083** Client ID: Units: **mg/L** Prep Date: **01/07/2016** Run No: **307778**
SampleType: **LCS** TestCode: **MERCURY, TCLP SW1311/7470A** BatchID: **218083** Analysis Date: **01/07/2016** Seq No: **6606131**

| Analyte | Result | RPT Limit | SPK value | SPK Ref Val | %REC | Low Limit | High Limit | RPD Ref Val | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.04011 | 0.00400 | 0.0400 | 0.0005852 | 98.8 | 80 | 120 | | | | |

Sample ID: **1512Q21-003BMS** Client ID: **IDW-1 (123115)** Units: **mg/L** Prep Date: **01/07/2016** Run No: **307778**
SampleType: **MS** TestCode: **MERCURY, TCLP SW1311/7470A** BatchID: **218083** Analysis Date: **01/07/2016** Seq No: **6606133**

| Analyte | Result | RPT Limit | SPK value | SPK Ref Val | %REC | Low Limit | High Limit | RPD Ref Val | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.03980 | 0.00400 | 0.0400 | 0.0006693 | 97.8 | 80 | 120 | | | | |

Sample ID: **1512Q21-003BMSD** Client ID: **IDW-1 (123115)** Units: **mg/L** Prep Date: **01/07/2016** Run No: **307778**
SampleType: **MSD** TestCode: **MERCURY, TCLP SW1311/7470A** BatchID: **218083** Analysis Date: **01/07/2016** Seq No: **6606134**

| Analyte | Result | RPT Limit | SPK value | SPK Ref Val | %REC | Low Limit | High Limit | RPD Ref Val | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.03883 | 0.00400 | 0.0400 | 0.0006693 | 95.4 | 80 | 120 | 0.03980 | 2.47 | 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 | | |

AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

March 03, 2016

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: 1602N63

Analytical Environmental Services, Inc. received 4 samples on 2/25/2016 2:50:00 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's accreditations are as follows:
-NELAC/Florida State Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, and Drinking Water Microbiology, effective 07/01/15-06/30/16.
-NELAC/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/15-06/30/16.
-NELAC/Texas Certificate No. T104704509-16-6 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 03/01/16-02/28/17.
-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 09/01/17.

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: 1602N63

Date: _____ Page _____ of _____

COMPANY: Arcadis

ADDRESS: 1000 Cobb Place Blvd Bldg 500-A Kennesaw, GA 30144

PHONE: (770) 428-9009

FAX:

SAMPLED BY: Mark Hy

SIGNATURE:

ANALYSIS REQUESTED

VOCs

PRESERVATION (See codes)

HCl

**Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.**

| # | SAMPLE ID | SAMPLED DATE | SAMPLED TIME | Grab | Composite | Matrix (See codes) | PRESERVATION | REMARKS | No # of Containers |
|---|---|---|---|---|---|---|---|---|---|
| 1 | TW-01 (022516) | 2-25 | 1340 | ✓ | | GW | 2 | | 2 |
| 2 | TW-02 (022516) | 2-25 | 1250 | ✓ | | GW | 2 | | 2 |
| 3 | TW-03 (022516) | 2-25 | 1145 | ✓ | | GW | 2 | | 2 |
| 4 | Trip Blank | 2-25 | ✓ | | | W | 2 | | 2 |
| 5 | | | | | | | | | |
| 6 | | | | | | | | | |
| 7 | | | | | | | | | |
| 8 | | | | | | | | | |
| 9 | | | | | | | | | |
| 10 | | | | | | | | | |
| 11 | | | | | | | | | |
| 12 | | | | | | | | | |
| 13 | | | | | | | | | |
| 14 | | | | | | | | | |

| RELINQUISHED BY | DATE/TIME | RECEIVED BY | DATE/TIME |
|---|---|---|---|
| 1: Mark Hy | 2-25-16 / 1450 / 1500 | 1: Nayla | 2-25-16 1450 |
| 2: | | 2: | |
| 3: | | 3: | |

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD
OUT / / VIA:
IN / / VIA:
CLIENT FedEx UPS MAIL COURIER
GREYHOUND OTHER_____

**PROJECT INFORMATION**

PROJECT NAME: Lafayette East Point
PROJECT #: HF122446
SITE ADDRESS: Bonnie Dr East Point, GA
SEND REPORT TO: Chris Miller
INVOICE TO: (IF DIFFERENT FROM ABOVE)
QUOTE #: _____ PO#: _____

RECEIPT
Total # of Containers: 8

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

**Analytical Environmental Services, Inc** **Date:** 3-Mar-16

| | | | |
|---|---|---|---|
| **Client:** | Arcadis | **Client Sample ID:** | TW-01 (022516) |
| **Project Name:** | Lafarge East Point | **Collection Date:** | 2/25/2016 1:40:00 PM |
| **Lab ID:** | 1602N63-001 | **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 | 220653 | 1 | 03/03/2016 05:22 | NP |
| 1,1,2,2-Tetrachloroethane | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 05:22 | NP |
| 1,1,2-Trichloroethane | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 05:22 | NP |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 05:22 | NP |
| 1,1-Dichloroethene | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 05:22 | NP |
| 1,2,4-Trichlorobenzene | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 05:22 | NP |
| 1,2-Dibromo-3-chloropropane | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 05:22 | NP |
| 1,2-Dibromoethane | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 05:22 | NP |
| 1,2-Dichlorobenzene | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 05:22 | NP |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 05:22 | NP |
| 1,2-Dichloropropane | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 05:22 | NP |
| 1,3-Dichlorobenzene | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 05:22 | NP |
| 1,4-Dichlorobenzene | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 05:22 | NP |
| 2-Butanone | BRL | 50 | | ug/L | 220653 | 1 | 03/03/2016 05:22 | NP |
| 2-Hexanone | BRL | 10 | | ug/L | 220653 | 1 | 03/03/2016 05:22 | NP |
| 4-Methyl-2-pentanone | BRL | 10 | | ug/L | 220653 | 1 | 03/03/2016 05:22 | NP |
| Acetone | BRL | 50 | | ug/L | 220653 | 1 | 03/03/2016 05:22 | NP |
| Benzene | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 05:22 | NP |
| Bromodichloromethane | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 05:22 | NP |
| Bromoform | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 05:22 | NP |
| Bromomethane | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 05:22 | NP |
| Carbon disulfide | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 05:22 | NP |
| Carbon tetrachloride | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 05:22 | NP |
| Chlorobenzene | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 05:22 | NP |
| Chloroethane | BRL | 10 | | ug/L | 220653 | 1 | 03/03/2016 05:22 | NP |
| Chloroform | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 05:22 | NP |
| Chloromethane | BRL | 10 | | ug/L | 220653 | 1 | 03/03/2016 05:22 | NP |
| cis-1,2-Dichloroethene | 92 | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 05:22 | NP |
| cis-1,3-Dichloropropene | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 05:22 | NP |
| Cyclohexane | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 05:22 | NP |
| Dibromochloromethane | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 05:22 | NP |
| Dichlorodifluoromethane | BRL | 10 | | ug/L | 220653 | 1 | 03/03/2016 05:22 | NP |
| Ethylbenzene | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 05:22 | NP |
| Freon-113 | BRL | 10 | | ug/L | 220653 | 1 | 03/03/2016 05:22 | NP |
| Isopropylbenzene | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 05:22 | NP |
| m,p-Xylene | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 05:22 | NP |
| Methyl acetate | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 05:22 | NP |
| Methyl tert-butyl ether | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 05:22 | NP |
| Methylcyclohexane | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 05:22 | NP |
| Methylene chloride | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 05:22 | NP |
| o-Xylene | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 05:22 | 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

**Analytical Environmental Services, Inc** **Date:** 3-Mar-16

| | | | |
|---|---|---|---|
| **Client:** | Arcadis | **Client Sample ID:** | TW-01 (022516) |
| **Project Name:** | Lafarge East Point | **Collection Date:** | 2/25/2016 1:40:00 PM |
| **Lab ID:** | 1602N63-001 | **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 | 220653 | 1 | 03/03/2016 05:22 | NP |
| Tetrachloroethene | 10 | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 05:22 | NP |
| Toluene | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 05:22 | NP |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 05:22 | NP |
| trans-1,3-Dichloropropene | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 05:22 | NP |
| Trichloroethene | 8.2 | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 05:22 | NP |
| Trichlorofluoromethane | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 05:22 | NP |
| Vinyl chloride | BRL | 2.0 | | ug/L | 220653 | 1 | 03/03/2016 05:22 | NP |
| Surr: 4-Bromofluorobenzene | 93.8 | 70.7-125 | | %REC | 220653 | 1 | 03/03/2016 05:22 | NP |
| Surr: Dibromofluoromethane | 104 | 82.2-120 | | %REC | 220653 | 1 | 03/03/2016 05:22 | NP |
| Surr: Toluene-d8 | 97.2 | 81.8-120 | | %REC | 220653 | 1 | 03/03/2016 05:22 | 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** **Date:** 3-Mar-16

| | | | |
|---|---|---|---|
| **Client:** | Arcadis | **Client Sample ID:** | TW-02 (022516) |
| **Project Name:** | Lafarge East Point | **Collection Date:** | 2/25/2016 12:50:00 PM |
| **Lab ID:** | 1602N63-002 | **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 | 220653 | 1 | 03/03/2016 06:09 | NP |
| 1,1,2,2-Tetrachloroethane | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 06:09 | NP |
| 1,1,2-Trichloroethane | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 06:09 | NP |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 06:09 | NP |
| 1,1-Dichloroethene | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 06:09 | NP |
| 1,2,4-Trichlorobenzene | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 06:09 | NP |
| 1,2-Dibromo-3-chloropropane | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 06:09 | NP |
| 1,2-Dibromoethane | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 06:09 | NP |
| 1,2-Dichlorobenzene | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 06:09 | NP |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 06:09 | NP |
| 1,2-Dichloropropane | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 06:09 | NP |
| 1,3-Dichlorobenzene | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 06:09 | NP |
| 1,4-Dichlorobenzene | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 06:09 | NP |
| 2-Butanone | BRL | 50 | | ug/L | 220653 | 1 | 03/03/2016 06:09 | NP |
| 2-Hexanone | BRL | 10 | | ug/L | 220653 | 1 | 03/03/2016 06:09 | NP |
| 4-Methyl-2-pentanone | BRL | 10 | | ug/L | 220653 | 1 | 03/03/2016 06:09 | NP |
| Acetone | BRL | 50 | | ug/L | 220653 | 1 | 03/03/2016 06:09 | NP |
| Benzene | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 06:09 | NP |
| Bromodichloromethane | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 06:09 | NP |
| Bromoform | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 06:09 | NP |
| Bromomethane | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 06:09 | NP |
| Carbon disulfide | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 06:09 | NP |
| Carbon tetrachloride | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 06:09 | NP |
| Chlorobenzene | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 06:09 | NP |
| Chloroethane | BRL | 10 | | ug/L | 220653 | 1 | 03/03/2016 06:09 | NP |
| Chloroform | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 06:09 | NP |
| Chloromethane | BRL | 10 | | ug/L | 220653 | 1 | 03/03/2016 06:09 | NP |
| cis-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 06:09 | NP |
| cis-1,3-Dichloropropene | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 06:09 | NP |
| Cyclohexane | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 06:09 | NP |
| Dibromochloromethane | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 06:09 | NP |
| Dichlorodifluoromethane | BRL | 10 | | ug/L | 220653 | 1 | 03/03/2016 06:09 | NP |
| Ethylbenzene | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 06:09 | NP |
| Freon-113 | BRL | 10 | | ug/L | 220653 | 1 | 03/03/2016 06:09 | NP |
| Isopropylbenzene | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 06:09 | NP |
| m,p-Xylene | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 06:09 | NP |
| Methyl acetate | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 06:09 | NP |
| Methyl tert-butyl ether | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 06:09 | NP |
| Methylcyclohexane | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 06:09 | NP |
| Methylene chloride | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 06:09 | NP |
| o-Xylene | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 06:09 | 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

**Analytical Environmental Services, Inc** **Date:** 3-Mar-16

| | | | |
|---|---|---|---|
| **Client:** | Arcadis | **Client Sample ID:** | TW-02 (022516) |
| **Project Name:** | Lafarge East Point | **Collection Date:** | 2/25/2016 12:50:00 PM |
| **Lab ID:** | 1602N63-002 | **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 | 220653 | 1 | 03/03/2016 06:09 | NP |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 06:09 | NP |
| Toluene | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 06:09 | NP |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 06:09 | NP |
| trans-1,3-Dichloropropene | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 06:09 | NP |
| Trichloroethene | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 06:09 | NP |
| Trichlorofluoromethane | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 06:09 | NP |
| Vinyl chloride | BRL | 2.0 | | ug/L | 220653 | 1 | 03/03/2016 06:09 | NP |
| Surr: 4-Bromofluorobenzene | 92.1 | 70.7-125 | | %REC | 220653 | 1 | 03/03/2016 06:09 | NP |
| Surr: Dibromofluoromethane | 103 | 82.2-120 | | %REC | 220653 | 1 | 03/03/2016 06:09 | NP |
| Surr: Toluene-d8 | 97.6 | 81.8-120 | | %REC | 220653 | 1 | 03/03/2016 06:09 | 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** **Date:** 3-Mar-16

| | | | |
|---|---|---|---|
| **Client:** | Arcadis | **Client Sample ID:** | TW-03 (022516) |
| **Project Name:** | Lafarge East Point | **Collection Date:** | 2/25/2016 11:45:00 AM |
| **Lab ID:** | 1602N63-003 | **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 | 220653 | 1 | 03/03/2016 06:33 | NP |
| 1,1,2,2-Tetrachloroethane | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 06:33 | NP |
| 1,1,2-Trichloroethane | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 06:33 | NP |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 06:33 | NP |
| 1,1-Dichloroethene | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 06:33 | NP |
| 1,2,4-Trichlorobenzene | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 06:33 | NP |
| 1,2-Dibromo-3-chloropropane | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 06:33 | NP |
| 1,2-Dibromoethane | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 06:33 | NP |
| 1,2-Dichlorobenzene | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 06:33 | NP |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 06:33 | NP |
| 1,2-Dichloropropane | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 06:33 | NP |
| 1,3-Dichlorobenzene | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 06:33 | NP |
| 1,4-Dichlorobenzene | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 06:33 | NP |
| 2-Butanone | BRL | 50 | | ug/L | 220653 | 1 | 03/03/2016 06:33 | NP |
| 2-Hexanone | BRL | 10 | | ug/L | 220653 | 1 | 03/03/2016 06:33 | NP |
| 4-Methyl-2-pentanone | BRL | 10 | | ug/L | 220653 | 1 | 03/03/2016 06:33 | NP |
| Acetone | BRL | 50 | | ug/L | 220653 | 1 | 03/03/2016 06:33 | NP |
| Benzene | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 06:33 | NP |
| Bromodichloromethane | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 06:33 | NP |
| Bromoform | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 06:33 | NP |
| Bromomethane | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 06:33 | NP |
| Carbon disulfide | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 06:33 | NP |
| Carbon tetrachloride | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 06:33 | NP |
| Chlorobenzene | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 06:33 | NP |
| Chloroethane | BRL | 10 | | ug/L | 220653 | 1 | 03/03/2016 06:33 | NP |
| Chloroform | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 06:33 | NP |
| Chloromethane | BRL | 10 | | ug/L | 220653 | 1 | 03/03/2016 06:33 | NP |
| cis-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 06:33 | NP |
| cis-1,3-Dichloropropene | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 06:33 | NP |
| Cyclohexane | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 06:33 | NP |
| Dibromochloromethane | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 06:33 | NP |
| Dichlorodifluoromethane | BRL | 10 | | ug/L | 220653 | 1 | 03/03/2016 06:33 | NP |
| Ethylbenzene | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 06:33 | NP |
| Freon-113 | BRL | 10 | | ug/L | 220653 | 1 | 03/03/2016 06:33 | NP |
| Isopropylbenzene | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 06:33 | NP |
| m,p-Xylene | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 06:33 | NP |
| Methyl acetate | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 06:33 | NP |
| Methyl tert-butyl ether | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 06:33 | NP |
| Methylcyclohexane | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 06:33 | NP |
| Methylene chloride | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 06:33 | NP |
| o-Xylene | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 06:33 | 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-16

| | | | |
|---|---|---|---|
| **Client:** | Arcadis | **Client Sample ID:** | TW-03 (022516) |
| **Project Name:** | Lafarge East Point | **Collection Date:** | 2/25/2016 11:45:00 AM |
| **Lab ID:** | 1602N63-003 | **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 | 220653 | 1 | 03/03/2016 06:33 | NP |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 06:33 | NP |
| Toluene | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 06:33 | NP |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 06:33 | NP |
| trans-1,3-Dichloropropene | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 06:33 | NP |
| Trichloroethene | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 06:33 | NP |
| Trichlorofluoromethane | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 06:33 | NP |
| Vinyl chloride | BRL | 2.0 | | ug/L | 220653 | 1 | 03/03/2016 06:33 | NP |
| Surr: 4-Bromofluorobenzene | 92.9 | 70.7-125 | | %REC | 220653 | 1 | 03/03/2016 06:33 | NP |
| Surr: Dibromofluoromethane | 103 | 82.2-120 | | %REC | 220653 | 1 | 03/03/2016 06:33 | NP |
| Surr: Toluene-d8 | 97.3 | 81.8-120 | | %REC | 220653 | 1 | 03/03/2016 06:33 | 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-16

| | | | |
|---|---|---|---|
| **Client:** | Arcadis | **Client Sample ID:** | TRIP BLANK |
| **Project Name:** | Lafarge East Point | **Collection Date:** | 2/25/2016 |
| **Lab ID:** | 1602N63-004 | **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 | 220653 | 1 | 03/03/2016 02:36 | NP |
| 1,1,2,2-Tetrachloroethane | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 02:36 | NP |
| 1,1,2-Trichloroethane | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 02:36 | NP |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 02:36 | NP |
| 1,1-Dichloroethene | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 02:36 | NP |
| 1,2,4-Trichlorobenzene | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 02:36 | NP |
| 1,2-Dibromo-3-chloropropane | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 02:36 | NP |
| 1,2-Dibromoethane | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 02:36 | NP |
| 1,2-Dichlorobenzene | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 02:36 | NP |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 02:36 | NP |
| 1,2-Dichloropropane | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 02:36 | NP |
| 1,3-Dichlorobenzene | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 02:36 | NP |
| 1,4-Dichlorobenzene | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 02:36 | NP |
| 2-Butanone | BRL | 50 | | ug/L | 220653 | 1 | 03/03/2016 02:36 | NP |
| 2-Hexanone | BRL | 10 | | ug/L | 220653 | 1 | 03/03/2016 02:36 | NP |
| 4-Methyl-2-pentanone | BRL | 10 | | ug/L | 220653 | 1 | 03/03/2016 02:36 | NP |
| Acetone | BRL | 50 | | ug/L | 220653 | 1 | 03/03/2016 02:36 | NP |
| Benzene | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 02:36 | NP |
| Bromodichloromethane | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 02:36 | NP |
| Bromoform | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 02:36 | NP |
| Bromomethane | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 02:36 | NP |
| Carbon disulfide | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 02:36 | NP |
| Carbon tetrachloride | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 02:36 | NP |
| Chlorobenzene | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 02:36 | NP |
| Chloroethane | BRL | 10 | | ug/L | 220653 | 1 | 03/03/2016 02:36 | NP |
| Chloroform | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 02:36 | NP |
| Chloromethane | BRL | 10 | | ug/L | 220653 | 1 | 03/03/2016 02:36 | NP |
| cis-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 02:36 | NP |
| cis-1,3-Dichloropropene | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 02:36 | NP |
| Cyclohexane | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 02:36 | NP |
| Dibromochloromethane | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 02:36 | NP |
| Dichlorodifluoromethane | BRL | 10 | | ug/L | 220653 | 1 | 03/03/2016 02:36 | NP |
| Ethylbenzene | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 02:36 | NP |
| Freon-113 | BRL | 10 | | ug/L | 220653 | 1 | 03/03/2016 02:36 | NP |
| Isopropylbenzene | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 02:36 | NP |
| m,p-Xylene | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 02:36 | NP |
| Methyl acetate | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 02:36 | NP |
| Methyl tert-butyl ether | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 02:36 | NP |
| Methylcyclohexane | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 02:36 | NP |
| Methylene chloride | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 02:36 | NP |
| o-Xylene | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 02:36 | 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-16

| | | | |
|---|---|---|---|
| **Client:** | Arcadis | **Client Sample ID:** | TRIP BLANK |
| **Project Name:** | Lafarge East Point | **Collection Date:** | 2/25/2016 |
| **Lab ID:** | 1602N63-004 | **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 | 220653 | 1 | 03/03/2016 02:36 | NP |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 02:36 | NP |
| Toluene | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 02:36 | NP |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 02:36 | NP |
| trans-1,3-Dichloropropene | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 02:36 | NP |
| Trichloroethene | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 02:36 | NP |
| Trichlorofluoromethane | BRL | 5.0 | | ug/L | 220653 | 1 | 03/03/2016 02:36 | NP |
| Vinyl chloride | BRL | 2.0 | | ug/L | 220653 | 1 | 03/03/2016 02:36 | NP |
| Surr: 4-Bromofluorobenzene | 93.2 | 70.7-125 | | %REC | 220653 | 1 | 03/03/2016 02:36 | NP |
| Surr: Dibromofluoromethane | 100 | 82.2-120 | | %REC | 220653 | 1 | 03/03/2016 02:36 | NP |
| Surr: Toluene-d8 | 97.6 | 81.8-120 | | %REC | 220653 | 1 | 03/03/2016 02:36 | 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 1602N63

Checklist completed by _____ 2/25/16
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 2.1° 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.

\\Aes_server\I\Sample Receipt\My Documents\COCs and pH Adjustment Sheet\Sample_Cooler_Recipt_Checklist_Rev1.rtf

**Client:** Arcadis
**Project Name:** Lafarge East Point
**Workorder:** 1602N63

# ANALYTICAL QC SUMMARY REPORT

**BatchID: 220653**

Sample ID: **MB-220653** Client ID: Units: **ug/L** Prep Date: **03/03/2016** Run No: **311655**
SampleType: **MBLK** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **220653** Analysis Date: **03/03/2016** Seq No: **6697921**

| 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:** 1602N63

# ANALYTICAL QC SUMMARY REPORT

**BatchID: 220653**

Sample ID: **MB-220653** Client ID: Units: **ug/L** Prep Date: **03/03/2016** Run No: **311655**
SampleType: **MBLK** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **220653** Analysis Date: **03/03/2016** Seq No: **6697921**

| 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 | 47.52 | 0 | 50.00 | | 95.0 | 70.7 | 125 | | | | |
| Surr: Dibromofluoromethane | 52.19 | 0 | 50.00 | | 104 | 82.2 | 120 | | | | |
| Surr: Toluene-d8 | 49.12 | 0 | 50.00 | | 98.2 | 81.8 | 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:** 1602N63

# ANALYTICAL QC SUMMARY REPORT

**BatchID: 220653**

Sample ID: **LCS-220653** Client ID: Units: **ug/L** Prep Date: **03/03/2016** Run No: **311655**
SampleType: **LCS** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **220653** Analysis Date: **03/03/2016** Seq No: **6697919**

| Analyte | Result | RPT Limit | SPK value | SPK Ref Val | %REC | Low Limit | High Limit | RPD Ref Val | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 54.62 | 5.0 | 50.00 | | 109 | 65.3 | 137 | | | | |
| Benzene | 54.13 | 5.0 | 50.00 | | 108 | 74.9 | 123 | | | | |
| Chlorobenzene | 53.19 | 5.0 | 50.00 | | 106 | 73.9 | 124 | | | | |
| Toluene | 54.49 | 5.0 | 50.00 | | 109 | 75 | 124 | | | | |
| Trichloroethene | 52.56 | 5.0 | 50.00 | | 105 | 73.1 | 128 | | | | |
| Surr: 4-Bromofluorobenzene | 46.83 | 0 | 50.00 | | 93.7 | 70.7 | 125 | | | | |
| Surr: Dibromofluoromethane | 50.61 | 0 | 50.00 | | 101 | 82.2 | 120 | | | | |
| Surr: Toluene-d8 | 47.54 | 0 | 50.00 | | 95.1 | 81.8 | 120 | | | | |

Sample ID: **1602N46-002AMS** Client ID: Units: **ug/L** Prep Date: **03/03/2016** Run No: **311694**
SampleType: **MS** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **220653** Analysis Date: **03/03/2016** Seq No: **6699727**

| Analyte | Result | RPT Limit | SPK value | SPK Ref Val | %REC | Low Limit | High Limit | RPD Ref Val | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 488.1 | 50 | 500.0 | | 97.6 | 60 | 150 | | | | |
| Benzene | 494.7 | 50 | 500.0 | | 98.9 | 70.1 | 132 | | | | |
| Chlorobenzene | 485.3 | 50 | 500.0 | | 97.1 | 70.9 | 131 | | | | |
| Toluene | 518.4 | 50 | 500.0 | | 104 | 70.1 | 133 | | | | |
| Trichloroethene | 487.6 | 50 | 500.0 | | 97.5 | 70 | 136 | | | | |
| Surr: 4-Bromofluorobenzene | 486.1 | 0 | 500.0 | | 97.2 | 70.7 | 125 | | | | |
| Surr: Dibromofluoromethane | 494.8 | 0 | 500.0 | | 99.0 | 82.2 | 120 | | | | |
| Surr: Toluene-d8 | 481.5 | 0 | 500.0 | | 96.3 | 81.8 | 120 | | | | |

Sample ID: **1602N46-002AMSD** Client ID: Units: **ug/L** Prep Date: **03/03/2016** Run No: **311694**
SampleType: **MSD** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **220653** Analysis Date: **03/03/2016** Seq No: **6699728**

| Analyte | Result | RPT Limit | SPK value | SPK Ref Val | %REC | Low Limit | High Limit | RPD Ref Val | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 474.3 | 50 | 500.0 | | 94.9 | 60 | 150 | 488.1 | 2.87 | 17.7 | |
| Benzene | 488.4 | 50 | 500.0 | | 97.7 | 70.1 | 132 | 494.7 | 1.28 | 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:** 1602N63

# ANALYTICAL QC SUMMARY REPORT

**BatchID: 220653**

Sample ID: **1602N46-002AMSD** Client ID:
SampleType: **MSD** TestCode: **TCL VOLATILE ORGANICS SW8260B**
Units: **ug/L** Prep Date: **03/03/2016** Run No: **311694**
BatchID: **220653** Analysis Date: **03/03/2016** Seq No: **6699728**

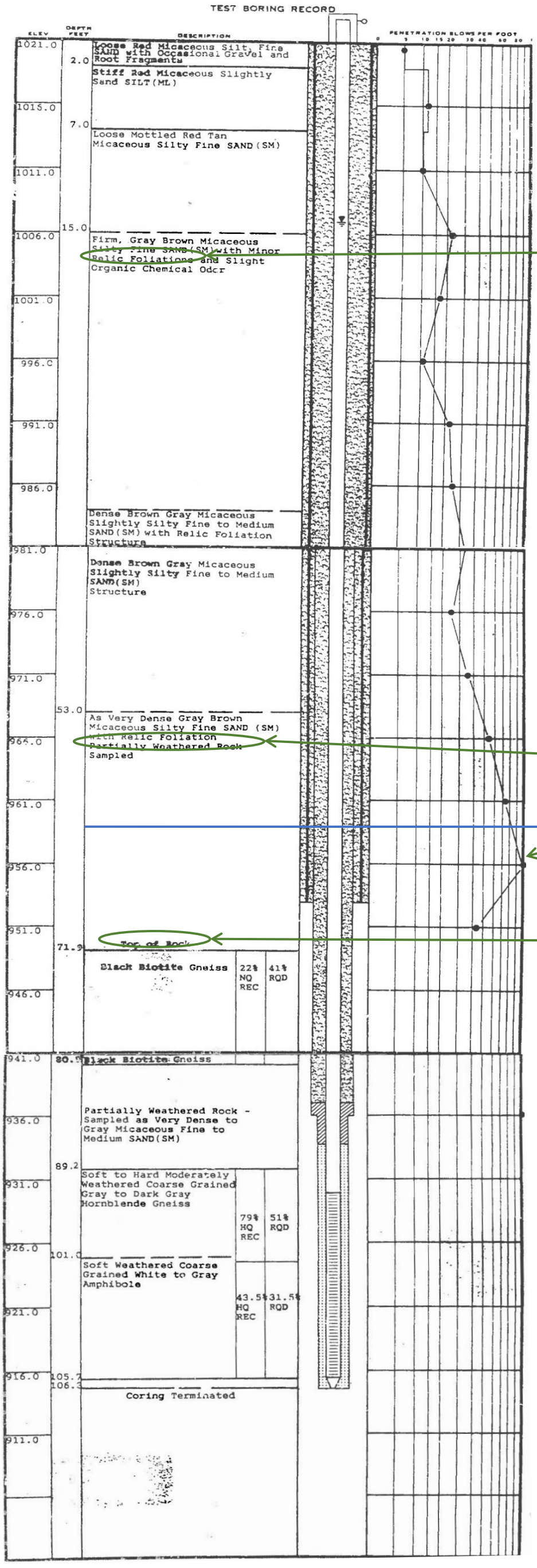
| Analyte | Result | RPT Limit | SPK value | SPK Ref Val | %REC | Low Limit | High Limit | RPD Ref Val | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chlorobenzene | 461.6 | 50 | 500.0 | | 92.3 | 70.9 | 131 | 485.3 | 5.01 | 20 | |
| Toluene | 503.6 | 50 | 500.0 | | 101 | 70.1 | 133 | 518.4 | 2.90 | 20 | |
| Trichloroethene | 479.2 | 50 | 500.0 | | 95.8 | 70 | 136 | 487.6 | 1.74 | 20 | |
| Surr: 4-Bromofluorobenzene | 491.4 | 0 | 500.0 | | 98.3 | 70.7 | 125 | 486.1 | 0 | 0 | |
| Surr: Dibromofluoromethane | 493.7 | 0 | 500.0 | | 98.7 | 82.2 | 120 | 494.8 | 0 | 0 | |
| Surr: Toluene-d8 | 483.3 | 0 | 500.0 | | 96.7 | 81.8 | 120 | 481.5 | 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 | | |

# APPENDIX C

## Updated CSM




**Corrected Interpretation**

**Highly Weathered Zone - Saprolite**

- Unconsolidated material with varying composition of sand, silt, and clay

**Note relic structure of saprolite (foliations)**

**Material classifies as saprolite due to N < 50**

**N > 50**

**Transition Zone - "Partially Weathered Rock"**

- Dense saprolite and highly fractured rock

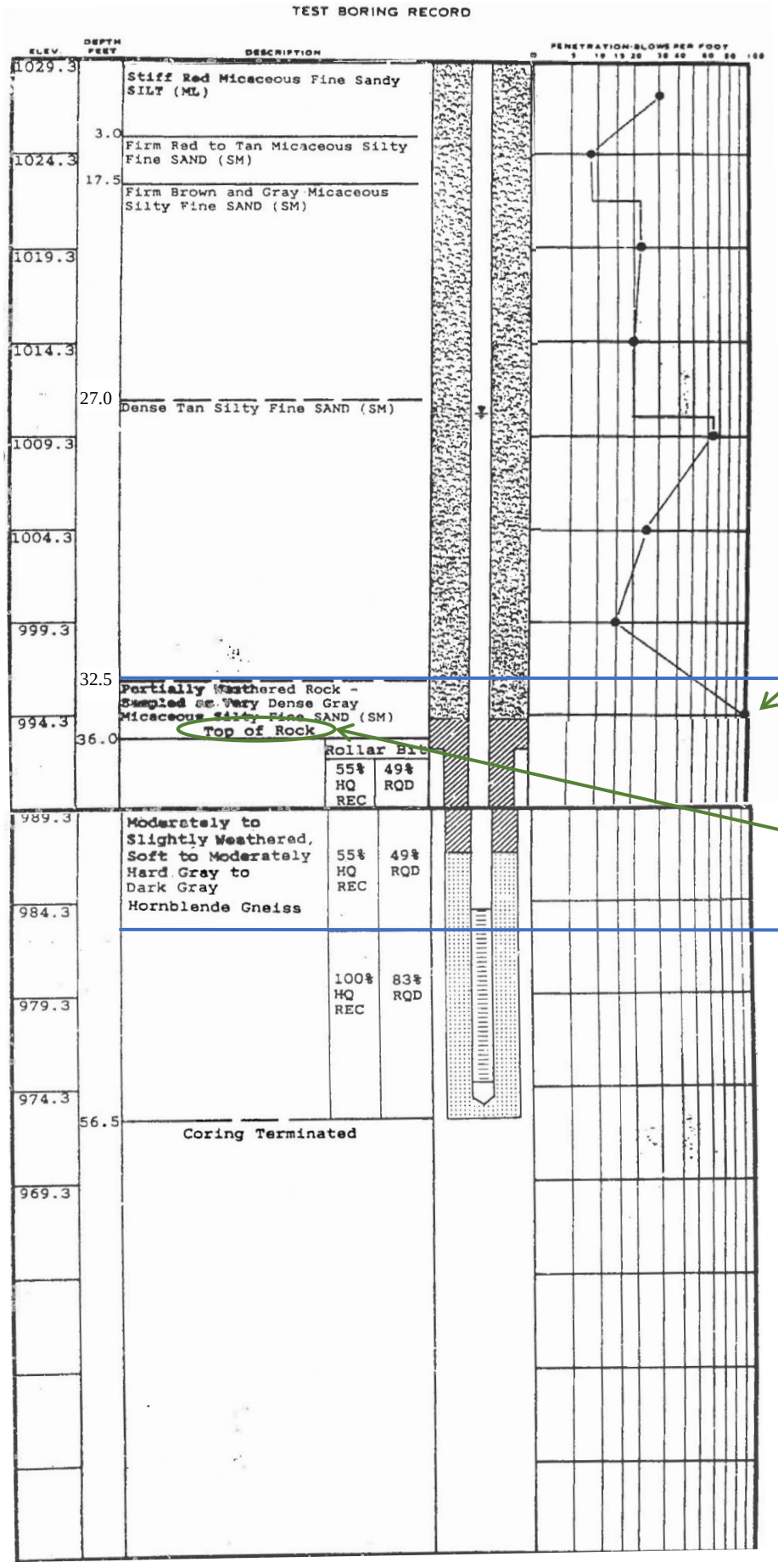
**Material classifies as PWR due to low REC and low RQD**

- Note low core recovery (REC) [<85%] and low core rock-quality designation (RQD) [<50%]

- Note no core recovery here - another indication of this material being PWR, not rock

- Note low core recovery (REC) [<85%] and low core rock-quality designation (RQD) [<50%]

Figure 1. MW-11 boring log from Larfarge East Point site




**Corrected Interpretation**

**Highly Weathered Zone - Saprolite**

- Unconsolidated material with varying composition of sand, silt, and clay

N > 50

**Transition Zone - "Partially Weathered Rock"**

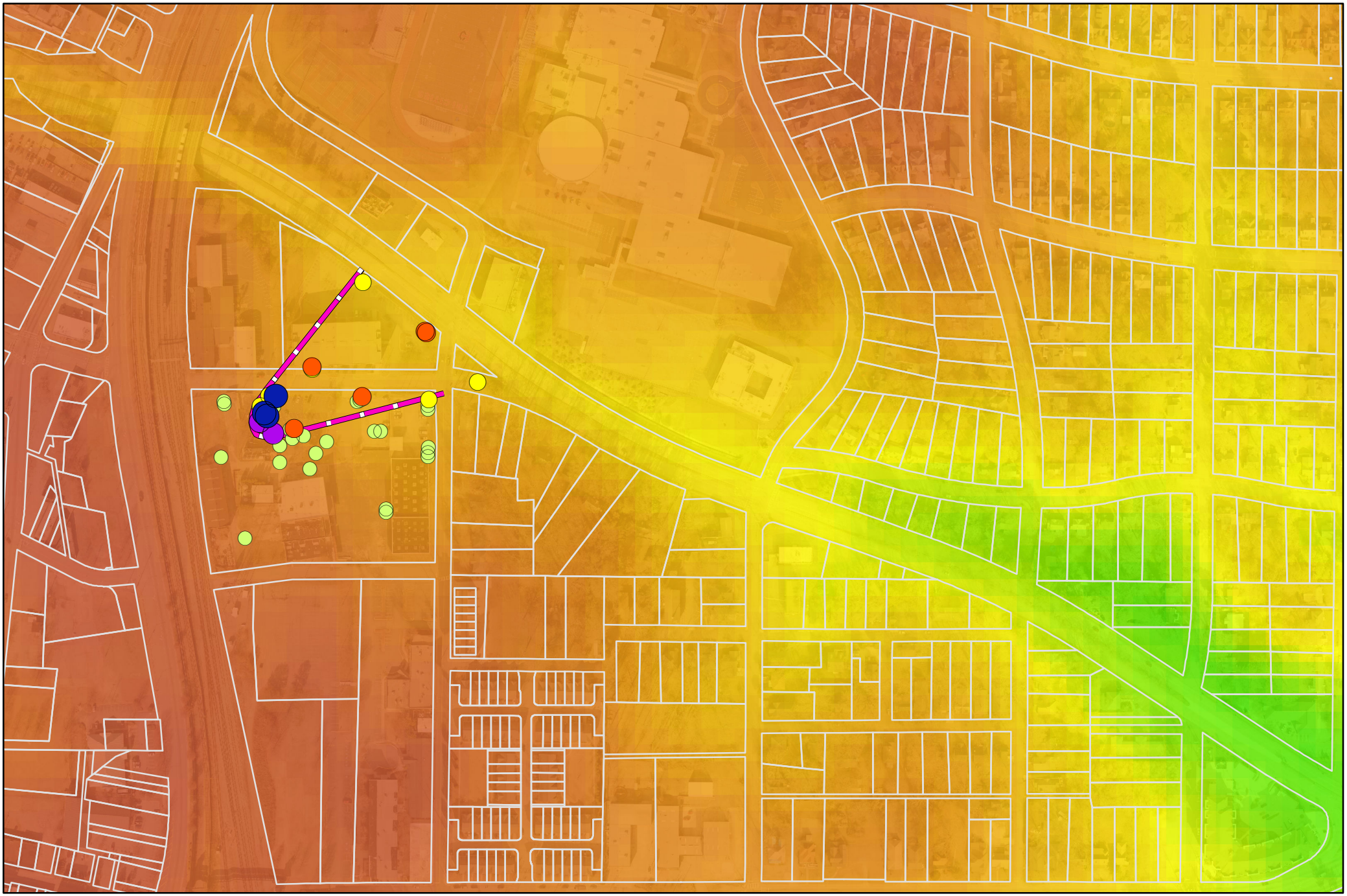
- Dense saprolite and highly fractured rock
- Note low core recovery (REC) [<85%] and low core rock-quality designation (RQD) [<50%]

Material classifies as PWR due to low REC and low RQD

**Bedrock**

- Defined by high REC and RQD

Figure 2. MW-16 boring log from Larfarge East Point site


N
0
150
300
Feet
GW TCE ppb [all depths]
ND
50
500
5000
>5000
Plume_expanded
Tax_Parcels
Topography
High : 1068.84
Low : 874.784

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