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September 24, 2014

Mr. Jason Metzger
Unit Coordinator – Environmental Engineer
Georgia Environmental Protection Division
Hazardous Sites Response Program/Voluntary Remediation Program
2 Martin Luther King, Jr. Drive, SE
Atlanta, GA 30334

Re: Voluntary Remediation Program Semiannual Status Report, Former Oxford Chemical Property, Sublisted Property for Hazardous Site Inventory (HSI) No. 10072, 5001 Peachtree Boulevard, Chamblee, DeKalb County, Georgia. Woodard & Curran Project No. 226278

Dear Mr. Metzger:

Enclosed is a Voluntary Remediation Program (VRP) Semiannual Status Report for the Former Oxford Chemical Property, sublisted property for HSI #10072, located at 5001 Peachtree Boulevard, Chamblee, DeKalb County, Georgia. The report addresses the activities conducted at the Site under the VRP for the period January 1, 2014 through September 24, 2014. The VRP Semiannual Status Report is being submitted by Woodard & Curran, Inc. on behalf of Rathon Corp. and The Hillshire Brands Company.

This Semiannual Status Report includes a Certification of Compliance for soils at the property. An expedited review of this certification would be greatly appreciated, as it will enable a pending property transaction and subsequent redevelopment of the property.

Please contact me with any questions or comments you may have.

Sincerely,

WOODARD & CURRAN INC.

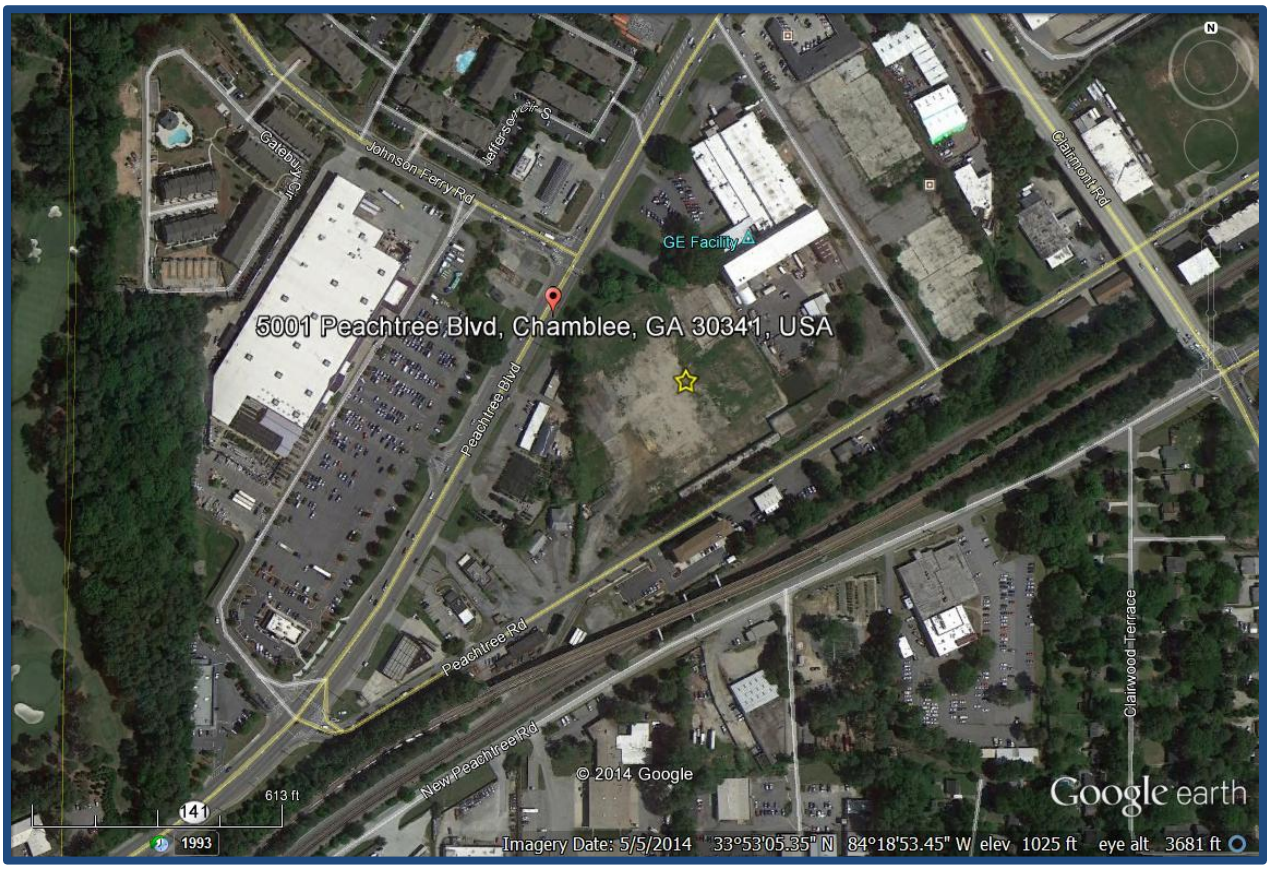
Leonard J. Diprima, Jr., P.G.
Senior Project Manager

Project Number 226278.00

Enclosure(s)
VRP Semiannual Status Report – 1 hard copy, 2 electronic copies (CD)

cc: Mr. Michael Glade, P.E., Rathon Corp.
Kent Magill, Esquire, The Hillshire Brands Company
Ms. Andrea Rimer, Esquire, Troutman Sanders LLP

Voluntary Remediation Program
Semiannual Status Report



Former Oxford Chemical Property
5001 Peachtree Boulevard, Chamblee, DeKalb County, Georgia

HSRA Sublisted Property of the
General Electric International, Inc. Apparatus Service Center Site
5035 Peachtree Boulevard, Chamblee, DeKalb County, Georgia
HSI No. 10072

Prepared For

Rathon Corporation
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Prepared by

WOODARD & CURRAN

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Project No. 226286

September 24, 2014

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Section 1
Certification of Compliance with Risk Reduction Standards for Soil

I certify under penalty of law that this report and all attachments were prepared under my direction in accordance with a system designed to ensure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Based on my review of the findings of this report with respect to the risk reduction standards for soil of the Rules for Hazardous Site Response, Rule 391-3-19-07, I have determined this property (5001 Peachtree Boulevard, Chamblee, DeKalb County, Georgia, Parcel No. 18-278-14-002) is currently in compliance with non-residential Type 3/4 risk reduction standards for soil.

Certified by:

Rathon Corporation

By: _____ 09/24/14

Michael J. Glade, P.E., Vice President Date

The Hillshire Brands Company

By: _____ 09/24/14

Alison Rhoten, Associate General Counsel Date

Section 2
PE/PG Certification

I certify under penalty of law that this report and all attachments were prepared by me or under my direct supervision in accordance with the Voluntary Remediation Program Act (O.C.G.A. Section 12-8-101, et seq.). I am a professional geologist who is registered with the Georgia State Board of Registration for Professional Geologists and I have the necessary experience and am in charge of the investigation and remediation of this release of regulated substances.

Furthermore, to document my direct oversight of the Voluntary Remediation Plan development, implementation of corrective action, and long term monitoring, I have attached a monthly summary of hours invoiced and description of services provided by me to the Voluntary Remediation Program participant since the previous submittal to the Georgia Environmental Protection Division.

The information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Leonard J. Diprima, Jr. / Georgia PG #949	September 24, 2014
Printed Name and GA PE/PG Number	Date

Signature and Stamp

Section 3
Introduction

Woodard & Curran (W&C) has prepared this Voluntary Remediation Program (VRP) Semiannual Status Report (Status Report) for the Former Oxford Chemical property located at 5001 Peachtree Boulevard (formerly Peachtree Industrial Boulevard), Chamblee, DeKalb County, Georgia; Tax Parcel No. 18-278-14-002 (Site). The Site was formerly regulated under the Georgia Environmental Protection Division (EPD) Hazardous Site Response Act (HSRA) Program as a sublisted property to the immediately adjacent General Electric International, Inc. Apparatus Service Center Site (GE Facility), 5035 Peachtree Boulevard, Chamblee, Georgia, Hazardous Site Inventory (HSI) No. 10072.

On April 1, 2013, a Voluntary Remediation Plan Application was submitted to the EPD HSRA Program for the Site. On July 10, 2013, the EPD approved the Voluntary Remediation Plan with comments and entered the Site into the VRP. This Status Report has been prepared to present the activities conducted from January 1, 2014 through September 24, 2014 for the Site in accordance with the VRP.

3.1 Previous Semi-Annual Status Report

The previous Semi-Annual Status Report for this Site was submitted to EPD on January 10, 2014, covering site activities through December 31, 2013. EPD provided comments on that report on April 8, 2014. Following are responses to those comments.

Comment 1 (RRS Standards): *EPD agrees that comments delivered via email correspondence dated September 26, 2013, concerning revised Risk Reduction Standards (RRS) have been adequately addressed. Therefore, the RRS presented in Tables 1 and 2 of Appendix A are considered finalized.*

No response required.

Comment 2 (Meeting Summary Email): *Except as noted in this letter, EPD concurs with the email summary dated March 27, 2014 of the meeting between EPD and Len Diprima of Woodard & Curran on February 19, 2014, which was held to discuss the above referenced report and plans for upcoming soil remediation activities.*

No response required.

Comment 3 (Delineation to Type 1 RRS): *EPD agrees that delineation of soil contamination to Type 1 RRS is complete for the site, with the exception of west of WCB-84.*

In order to complete the delineation of soils west of boring WCB-84, where the 0 to 2-foot sample interval contained 4,4-DDD above the Type 1 RRS, a sample was collected at the same depth interval approximately 15 feet to the west (WCB-110, see Figure 6) on April 9, 2014. Pesticide concentrations in this sample were below the Type 1 RRS (see Table 6).

Comment 4 (Supplemental Characterization Sampling): *EPD agrees that sufficient characterization of soils in the former locations of the wastewater treatment plant and holding pond, the empty drum*

storage area, Building "C"/Powder Plant, and the loading/unloading areas of the rail spur lines has now been completed. In addition to the supplemental sampling proposed in Section 3.2 and in the meeting summary to supplement/characterize soils that exceed Type 3/4 RRS, EPD recommends sampling the unexcavated area immediately south of B-19-03 and the area east of WCB-48 and north of B-17.

In response to EPD's request, samples were collected from the area south of boring B-19-03 with boring WCB-113, and the area east of boring WCB-48/north of boring B-17 with borings WCB-98/99/116 (see Tables 4 and 5 and Figures 4 and 5). VOC concentrations in the samples collected from WCB-98 and WCB-99 were above non-residential RRS for some compounds, and the results were used to define the extent of excavation in the area. VOC concentrations in the samples collected from WCB-113 and WCB-116 were below non-residential RRS.

Comment 5 (Depiction of Sample Locations): *Some of the soil borings shown on figures depicting soil sample locations sampled in 2013 (symbolized with a red dot) are not shown in Table 1, which presents September 2013 soil sampling results. Specifically, the following borings shown on Figures 1, 2, and 4 are not shown in Table 1: WCB-1 through WCB-27, WTF-VER74A, B-1, B-2, B-5-02, B-8, B-9, B-10, B-19, B-22-03, and B-23-03. (Note: WTF-VER-74A is a May 2008 sample. Samples designated B-x appear also to be from an earlier sampling event.) For samples collected in 2013, but before the September sampling event, please provide a table presenting sampling results and date in the next semi-annual progress report. For samples collected prior to 2013, please update the symbol used on Figures 1, 2, and 4 to reflect the correct year of sampling.*

Complete sample dates are provided in the data tables included in this submission, and symbols on the drawings depicting the date of sample collection have been verified. Please note that in some instances, sample locations from past sampling events were repeated in more recent sampling events. In those instances, the symbol used on the drawing reflects the most recent sampling date.

Comment 6 (VRP Applications for Impacted Properties): *The meeting summary is correct that separate VRP applications are not necessary for impacted properties where groundwater corrective action is not required under the exemption of Section 12-8-107(g)(2) of the Act. However, if potential exposure pathways such as vapor intrusion are identified and controls are proposed to mitigate those pathways, a VRP application must be submitted for those impacted properties.*

The comment is noted and will be considered when evaluating potential exposure pathways for other impacted properties.

Comment 7 (Analytical Reports): *The report did not include the laboratory analytical report for soil and groundwater sampling. Please provide, in PDF format on a CD (no paper copy), the laboratory analytical report, including chain of custody records, for all samples collected during this reporting period.*

Laboratory analytical data packages not previously submitted for soil and groundwater samples collected in 2013 and 2014 are provided electronically in Appendix B.

Comment 8 (EW-A2 Groundwater Sample Log): *The groundwater sampling log was not included in the report for monitoring well EW-A2. The log for EW-A1 was duplicated in the report, which may have led to the omission of EW-A2. Please include the September 2013 sampling log for EW-A2 in the next semiannual progress report.*

The corrected September 2013 sample logs for wells EW-A1 and EW-A2 are included in Appendix A.

Comments 9 through 12 (Groundwater Purging, Turbidity, Pump Intake Depth, and Polyethylene Tubing): ***(9)*** *During the September 2013 groundwater sampling event, the pH had not stabilized (varies not more than +/- 0.1 units over three consecutive measurements) when the sample was collected from wells BH-19 and MW-A. Continue to purge until stability is achieved (see Groundwater Sampling, USEPA SESDPROC-301-R3, Section 3.2).*

(10) *Turbidity was not reported on the sampling form for any of the samples collected during any of the 2013 groundwater sampling events. Even though samples are not being analyzed for metals, turbidity is still important because of the tendency of some pesticides to adsorb strongly to soil components. Therefore, monitor and use turbidity in determining purge adequacy (turbidity not greater than 10 NTUs, see SESDPROC-301-R3, Section 3.2)*

(11) *For the low-flow purging method, the pump intake should be placed near the mid-point of the screened interval. The well sampling form provided in the report contains no information on the screened interval of the well or the pump intake depth. For future sampling events, state the screened interval and the pump intake depth.*

(12) *Polyethylene tubing may be used for routine monitoring events; however, Teflon tubing must be used when sampling to show compliance with Risk Reduction Standards. For future sampling events, please state whether polyethylene or Teflon tubing was used.*

A review of original groundwater sample logs indicates a transcription error for the final pH reading at well BH-19; the corrected log is included in Appendix A. For well MW-A, the final three pH readings at were 5.10, 5.20, and 5.19, which meets the stabilization criteria.

No groundwater samples have been collected since receipt of this comment letter. These comments will be taken into consideration during future groundwater sampling events.

Section 4
Work Performed – January 1, 2014 through September 24, 2014

The activities currently identified to be performed at the Site under the VRP are outlined in the following documents:

- Voluntary Remediation Plan dated March 31, 2013;
- EPD VRP approval letter dated July 10, 2013; and
- VRP Semiannual Status Report dated January 10, 2014.

The activities that have been performed from January 1, 2014 through September 24, 2014 are as follows:

- Sampling of two existing monitoring wells on a nearby, downgradient property owned by Peachtree Village Partners LLC (PVP).
- Pursuit of offsite access to potentially impacted properties for groundwater delineation.
- Abandonment of onsite monitoring wells located within proposed soil excavation limits.
- Completion of soil delineation.
- Completion of soil remediation to non-residential risk reduction standards (RRS).

Details associated with the groundwater and soil delineation activities are presented below. Details associated with the soil remediation activities are provided in Section 5.

4.1 Groundwater Delineation

During this period, Woodard & Curran continued the delineation of offsite groundwater impacts related to releases associated with historical Oxford Chemical operations. To accomplish this objective, groundwater samples were collected from an additional downgradient property, and pursuit of offsite access to other downgradient properties continued (see Section 4.2).

4.1.1 Offsite Groundwater Sampling

Groundwater samples collected in November and December 2013 from the Peachtree Village Partners (PVP) properties downgradient to the southwest of the Site (MW-17 through 21 and MW-25 and 26) indicated the presence of one or more VOCs above residential delineation standards and/or non-residential RRS. Accordingly, on March 13, 2014, two existing groundwater monitoring wells located on the Texaco gas station parcel farther to the southwest owned by PVP (identified for the purposes of this sampling event as MW-TX-S and MW-TX-W; see Figure 1), were sampled for VOCs for the purpose of additional groundwater delineation.

Prior to conducting sampling of these two wells, water level measurements were collected from each of the wells. Prior to collecting measurements, each monitoring well was opened and allowed to equilibrate. At each well location, the depth to the water table was measured from the well top of casing and then sounded to determine the height of the water column and to determine if the well was

obstructed. The electronic water level probe was cleaned with isopropyl alcohol and rinsed with deionized water between monitoring wells.

A complete round of water level measurements from all onsite and offsite monitoring wells was collected on April 3, 2014. Water level measurements are presented in Table 1, and a potentiometric surface map for this measurement event is shown as Figure 1. The observed groundwater flow direction during this event was to the west-southwest, consistent with that previously observed.

Sampling was conducted using the low-flow/low-stress sampling method in general accordance with current USEPA protocols (Groundwater Sampling, USEPA SESDPROC-301-R3) and the May 30, 2008 EPD Groundwater Sampling Guideline Memorandum. Field measurements of pH, conductivity, dissolved oxygen, oxidation-reduction potential and temperature were collected every five minutes until all parameters stabilized within approximately 10 percent for three consecutive readings. Upon stabilization of the field parameters, samples were collected for VOCs. Groundwater sampling logs for these two locations are not presently available, but will be submitted in a future status report.

Groundwater samples were secured in ice-filled coolers and hand delivered to Analytical Environmental Services of Atlanta, Georgia (AES) for analysis. Laboratory work orders, and chain-of-custody documents, which included information on project name and number, sampler(s) signature, project manager's name, sample matrix, sample identification/station ID number, date and time of sample collection, total number of containers per sample station, requested analyses and number of containers per analyses per sample station, preservatives, and any other pertinent comments for the laboratory, were placed within each cooler for delivery. VOC samples were analyzed by Method 8260B.

4.1.2 Groundwater Analytical Results

Table 2 presents the VOC groundwater data collected in 2014 along with historical groundwater data collected from monitoring wells on the adjacent PVP properties, compared to non-residential RRS and to Type 1 RRS. Laboratory data reports are provided in Appendix B.

Based upon the groundwater data collected in 2014:

- Groundwater constituents above non-residential RRS at the PVP Texaco parcel (benzene and vinyl chloride) may not be related to the former Oxford Chemical property. Benzene is likely associated with the gas station and was not detected in the other PVP monitoring wells installed between the gas station and the Site. Vinyl chloride was not detected in monitoring wells MW-25 and MW-26 located on the parcel upgradient of the gas station, and was not detected in MW-TX-W on the gas station property. The groundwater flow direction indicates that the source of vinyl chloride could be located on the south side of Peachtree Road.
- Groundwater constituents above Type 1 delineation standards at the PVP Texaco parcel (cis-1,2-dichloroethene, cyclohexane, and isopropylbenzene) also may not be related to the former Oxford Chemical property, for similar reasons as described above. The cyclohexane and isopropylbenzene concentrations are likely associated with the gas station, and these compounds were not detected in the wells immediately downgradient of the Site (MW-17, MW-18, and MW-20). Cis-1,2-dichloroethene was only detect in monitoring well MW-TX-S on the Texaco property. Given the groundwater flow direction and the lower concentrations of cis-1,2-dichloroethene in upgradient wells MW-18, MW-19, MW-25 and MW-26, it is possible that the source at MW-TX-S, like vinyl chloride, is on the south side of Peachtree Road.

Based on these results, delineation of groundwater constituents from the Site appears to be complete to the southwest. Delineation to the west (across Peachtree Boulevard) will be performed as access to those properties is obtained, until all site-specific constituents of interest (identified in the Voluntary Remediation Plan) have been delineated to non-residential RRS and to Type 1 RRS.

4.2 Off Site Access for Groundwater Delineation

As noted in the previous Semiannual Status Report, Lowe's Home Centers, Inc. (Lowes; Tax Parcel No. 18-300-02-003) and Southern Holding Company LLC (Former FINA/Buddy's Fuel Station; Tax Parcel No. 18-300-02-001) have at this time denied access for the requested scope of monitoring well installation and sampling. As a result, Woodard & Curran contacted the Georgia Department of Transportation (GDOT) in order to request access to the right-of-way along Peachtree Boulevard in front of these properties to continue groundwater delineation efforts in this direction.

GDOT provided an Application and Permit for Special Encroachment on August 14, 2014, and issued Special Encroachment Permit #09-2014-010-089, AMPS 77842, DeKalb County, S.R.141, M.P.2.60 on September 2, 2014. Accordingly, Woodard & Curran anticipates that up to five additional monitoring wells will be installed in early October 2014, allowing the offsite groundwater delineation efforts to proceed.

If necessary to achieve the VRP objectives for groundwater delineation and corrective action, Lowe's and Southern Holding will be approached again to request access to their properties.

4.3 Onsite Groundwater Well Abandonment

Several existing onsite groundwater monitoring and recovery wells were located within or immediately adjacent to areas subject to planned soil remediation activities. Accordingly, these wells were abandoned prior to the soil remediation contractor mobilizing. Wells identified for abandonment included EW-D5, MW-3, EW-B3, EW-C8, BH-22, EW-C8, BH-20, BH-23, EW-C9, and BH-24.

Designated monitoring and recovery wells were abandoned on May 7, 2014 by removing dedicated pumps and tubing from the wells, if present, and then tremie grouting the wells with a bentonite-cement mix from the bottom of the well to at least three feet above the elevation of top of groundwater. Surface completions and risers were removed as part of the subsequent soil remediation activities.

The need for replacement of any of these wells or installation of additional onsite monitoring wells will be evaluated based on a review of existing data, results of groundwater modeling activities, and in consideration of future Site redevelopment plans.

4.4 Soil Delineation

Prior to soil remediation contractor mobilization, Woodard & Curran performed additional soil assessment and delineation activities during the period addressed by this Status Report. The objective of these activities was to sufficiently delineate the vertical and horizontal extents of soil with constituents exceeding non-residential RRS to limit the amount of post-excavation confirmation sampling that would be required. GAEPD approved the use of pre-remediation delineation data in lieu of

confirmation sampling; provided certain minimum requirements were met (sidewall samples every 50 to 60 feet and a base of excavation sample for each 625 square feet of excavation area unless groundwater is encountered). This process allowed the excavation activities to proceed more expeditiously, as most excavations could be backfilled immediately upon reaching the designated limits without having to wait for the results of confirmation samples.

To achieve this objective, a total of 26 soil borings were advanced on April 9, 2014, and an additional 15 soil borings were advanced on May 19, 2014. The locations of these borings, along with the locations of historical borings conducted at the Site, are shown on Figure 2.

Borings were advanced using direct-push technology (DPT), with soil cores retained in five-foot long plastic sleeves. The recovered soil was logged and scanned for organic vapors, and between one and three samples were collected from each boring for laboratory analysis. Depth intervals for samples were selected based on data from previous investigations and on observations of the recovered soil. Soil boring logs are provided in Appendix C.

Soil samples were secured in ice-filled coolers and hand delivered to AES for analysis. Laboratory work orders and chain-of-custody documents, which included information on project name and number, sampler(s) signature, project manager's name, sample matrix, sample identification/station ID number, date and time of sample collection, total number of containers per sample station, requested analyses and number of containers per analyses per sample station, preservatives, and any other pertinent comments for the laboratory, were placed within each cooler for delivery. Analytical parameters for the collected samples were selected based on the requirements for completing delineation at each location, and included VOCs (analyzed by Method 8260B) and/or pesticides (Method 8081B). A limited number of samples were also analyzed for TCLP VOCs to determine whether soils containing VOC concentrations known to be more than 20 times the TCLP limit would require treatment to meet Subtitle D, non-hazardous characteristics prior to offsite disposal.

Analytical results for the soil samples collected in 2014 are included in Tables 3 through 6, along with a comparison to the Type 1 (residential) and Type 3/4 (non-residential) RRS.

Based on a review of both the 2014 results and historical sampling results, the following summarizes the status of compliance with the objectives of the soil assessment and delineation activities prior to commencement of soil remediation activities:

- **Delineation to Type 3/4 RRS (Remediation):** Delineation to remediation standards was determined to be complete with the following exceptions:
    - All sides of B-36 (for dieldrin),
    - North of WCB-114,
    - South and east of WCB-119 and WCB-120,
    - South of WCB-117, and
    - West of WCB-112.

  Sample locations and limits of soils requiring remediation are provided on Figures 2 through 6. Post-excavation confirmation sampling was used to complete the delineation at the above referenced locations (see Section 5).

- **Delineation to Type 1 RRS:** As noted in Section 3, with the analytical results of the sample collected from boring WCB-110, delineation of soil to residential standards is complete.

- **Soil TCLP Characterization:** Based on the TCLP sample results and other sample data, four excavation areas were identified as containing soils that require treatment to reduce VOC concentrations to below characteristic hazardous waste limits to allow for disposal at a Subtitle D, non-hazardous waste disposal facility. These areas include (see Figures 3, 4, and 5):
    - An area adjacent to the former East Tank Farm,
    - Two discrete areas in the Wastewater Sewer Area, and
    - An area adjacent to the Former Pump Room.

Section 5
Soil Remediation Activities

Onsite soils exceeding non-residential RRS, as identified by various sampling events, were removed and disposed of offsite between July and September 2014. This Section describes the performance of the remediation activities, and provides the information necessary to support the enclosed Certification of Compliance with non-residential RRS for soils.

5.1 Pre-Remediation Activities

5.1.1 Contractor Procurement

Based on the preliminary limits of remediation developed from the delineation sample results, a Request for Bids was prepared and submitted to pre-approved remediation contractors. Upon review of the received bids, Winter Environmental (Winter) of Norcross, Georgia was retained as the remediation contractor.

5.1.2 Surveying of Excavation Limits

Prior to contractor mobilization, LandPro Surveying and Mapping of Woodstock, Georgia was retained to stake the preliminary limits of excavation. The limits of excavation were primarily established using the locations of the delineation soil borings, which had previously been surveyed by LandPro, along with the limits of the soil excavations conducted in 2008. In addition to staking the corners of the proposed excavation areas, LandPro also placed setback stakes 10 feet from each of the corner stakes for reference in the event that the corner stakes became dislodged.

5.1.3 Erosion and Sediment Controls

The total disturbed area for the soil remediation activities was estimated to be approximately 0.75 acres, which is below the threshold of 1.0 acre for which DeKalb County and the GAEPD require an erosion and sediment control/land disturbance permit. The City of Chamblee, however, does require a permit for disturbances of greater than 5,000 square feet. Accordingly, an erosion and sediment control plan and land disturbance permit application were completed and submitted to Chamblee, along with the appropriate fees, on July 7, 2014. Chamblee authorized the land disturbance permit on July 24, 2014.

In accordance with the erosion and sediment control plan, several best management practices were implemented, including the installation of silt fencing along the north and west perimeters of the Site and a construction entrance/exit at the southwest corner of the Site. These controls were maintained through the duration of the remediation activities.

5.2 Soil Remediation

Winter completed installation of erosion and sediment controls on July 25, 2014, and commenced with soil remediation activities on July 28, 2014. Winter's activities were performed under the direction of

Woodard & Curran. The following sections provide the general approach for the remediation, as well as details of the activities performed in each excavation area. Photographs of remediation activities are provided in Appendix D.

5.2.1 General Approach

Excavation: Soils designated for excavation were removed using a track excavator and direct loaded into dump trucks. In some locations, as described below, delineation data indicated that several feet of soils meeting the non-residential RRS overlaid deeper soils requiring removal. In those cases, the clean overburden (generally leaving a one to two-foot buffer above the impacted soils) was removed and stockpiled for use as backfill upon completion of the excavation.

Excavation generally proceeded to previously identified horizontal and vertical clean sample locations, or to the boundaries of the excavations performed in 2008. Where horizontal delineation had not been previously established, confirmation samples were collected from excavation sidewalls (at least one per every 50 to 60 feet horizontally and 4 to 6 feet vertically), with analysis performed by AES. Where vertical delineation was not achieved, excavations terminated upon reaching groundwater, as determined by observations of wetness at the base of excavation along with water level measurements at adjacent monitoring wells. Where necessary for stability, sidewalls were benched or sloped back, with the additional cut material handled in a manner consistent with the adjacent soils being excavated (i.e., either stockpiled for reuse as backfill or loaded for off-site disposal).

An estimated total of 7,160 cubic yards of soil were excavated from the Site, including slope cutback soils. Of this total, approximately 600 cubic yards of clean soil were stockpiled and reused as backfill, with the remainder loaded for off-site disposal.

Treatment: During the contractor procurement process, bidders were provided with 10 gallons of soil from the former East Tank Farm area in order to conduct treatability studies on soils which were not expected to pass TCLP testing, such that the treated soils could be disposed of as non-hazardous waste. Soils from the former East Tank Farm were selected for treatability testing as a likely worst-case scenario, as VOC concentrations in these soils were generally one to two orders of magnitude higher than those in the other areas requiring treatment.

Based on the treatability testing conducted by Winter (see Appendix G), the selected treatment process involved mixing the potentially hazardous soils in-situ with potassium permanganate and then quick lime. In the designated areas (portions of the former East Tank Farm, Wastewater Sewer, and former Pump Room areas), two- to five-foot thicknesses of soils were initially mixed with water using a backhoe to break up any large clumps of soil. Potassium permanganate was then applied in the proportions identified in the treatability study and mixed into the soil to provide primary treatment. After the permanganate had been thoroughly mixed with the soil, quicklime was then added to solidify the soil to enable subsequent handling and disposal.

After the treatment of a unit of soil was completed, one grab soil sample was collected from each mix batch (up to 250 cubic yards of treated soil per disposal facility requirements) for TCLP analysis. Retreatment and mixing was performed as needed based on the analytical results. Once laboratory results confirmed that the treated soil did not exceed TCLP limits (see Table 7), the treated soil was direct loaded for off-site disposal, and the next unit of soil was treated. A total of approximately 760 cubic yards of soil was treated in this manner prior to off-site disposal.

Transportation and Disposal: Excavated soils designated for offsite disposal were direct loaded into dump trucks for hauling to the Waste Management solid waste landfill in Ballground, Georgia. Dirt was brushed or washed off each truck at the construction exit, and a waste manifest was provided. A total of 11,290 tons of soil and concrete were shipped for offsite disposal. Copies of manifests available at the time of submission of this report are provided in Appendix E.

Backfill and Restoration: Clean fill from an offsite source, along with overburden meeting non-residential RRS from designated excavation areas, was used to backfill all excavations to match pre-excavation elevations. Fill was placed in 12-inch lifts and compacted using the excavator bucket. Gravel was used for the top six inches of fill, except for excavations at the Wastewater Treatment Facility Area, where the final surface was reseeded and mulched to match pre-excavation conditions.

Analytical data provided for the clean fill (two sources) is provided in Appendix B.

Dust and Odor Monitoring: During soil handling activities, Woodard & Curran performed perimeter dust and vapor monitoring to ensure that surrounding properties were not impacted by the activities. Perimeter monitoring was performed routinely using a photo ionization detector to test for VOC vapors and a dust meter to test for fugitive particulates. Action levels were established for organic vapors at 5 ppm for longer than one minute or 10 ppm at any time, and dust at 5 mg/m^3 in the work zone or 0.15 mg/m^3 at the Site perimeter, with provisions to stop work and implement engineering controls (typically applying water to on-site haul roads) should those action levels be exceeded.

Daily perimeter air monitoring forms are provided in Appendix F.

5.2.2 Remediation Areas and Compliance with RRS

This section provides an overview of the remediation activities conducted within each of the Site areas, including a discussion of the completed delineation of each area. Within each of the four primary work areas, the excavations were further subdivided into smaller discrete areas for record-keeping purposes.

Former East Tank Farm Area: A total of 1,300 cubic yards of soil was excavated from the former East Tank Farm area between August 20 and September 22, 2014. This area was subdivided into two discrete areas as described below. Soil sample results, including delineation and confirmation samples, are provided in Table 3, and sample locations and excavation limits are depicted on Figure 3.

Area 1: Excavation was required at this area based on the detection of dieldrin above the non-residential RRS in sample B-36(6-8). The excavation for this area was initially performed with horizontal dimensions of 8 feet square with the location of B-36 at the center, to a total depth of 8 feet, with vertical delineation provided by sample B-36(8-10). Based on pre-remediation sample results, the top 5 feet of soil from the excavation (approximately 12 cubic yards) was stockpiled separately for reuse as backfill, and the remainder of the soil was direct loaded for off-site disposal. Upon completion of the excavation, samples were collected from each of the four sidewalls at the 6 to 8-foot interval (WCTX-1S/1E/1N/1W), with analysis for TCL pesticides. Each of the four samples met non-residential RRS, and the excavation was backfilled.

Area 2: Excavation was required at this area based on the detection of several VOCs above the non-residential RRS, including chlorinated benzenes, chlorinated ethenes, and petroleum-related hydrocarbons. The excavation for this area covered an area of approximately 4,600 square feet, and was

performed to various depths. The north end of the excavation was extended to a depth of 5 feet, delineated vertically by samples WCB-B11(5-7) and WCB-111(5-7). The southwest corner was excavated to a depth of 4 feet, delineated vertically by sample B-23-03(4-6) and WCB-112(4-5). The remainder of the excavation was performed to the top of groundwater, ranging in depth from 7 feet at the south end to 10 feet at the north end. Horizontal delineation was achieved through pre-remediation sampling (borings WCB-80, WCB-41, WCB-40, WCB-39, WCB-34, WCB-35, WCB-85, WCB-23, and WCB-43) and 2008 excavation boundaries, except for the southwest corner where confirmation samples WCTX-18(0-2)/(2-4) were collected for TCL VOCs, with results meeting non-residential RRS.

A portion of Area 2 (approximately 350 cubic yards) was identified as potentially hazardous based on pre-remediation samples at locations B-10, WCB-21, WCB-42, and WCB-86. These soils were treated in two batches to a total depth of 6 feet. A treatment confirmation sample was collected from each batch to confirm the soils did not exceed TCLP limits (Table 7), and the soils were direct loaded for off-site disposal. The second batch required retreatment and retesting prior to removal to meet TCLP limits.

Wastewater Sewer Area: A total of 880 cubic yards of soil was excavated from the Wastewater Sewer area between July 31 and September 20, 2014. This area was subdivided into four discrete areas as described below. Soil sample results, including delineation and confirmation samples, are provided in Table 4, and sample locations and excavation limits are depicted on Figure 4.

Area 3: Excavation was required at this area based on the detection of VOCs (PCE and TCE) above the non-residential RRS. The excavation for this area covered an area of approximately 1,100 square feet, and was performed to a depth of 4 feet with vertical delineation provided by samples WCB-90(4-6) and WCB-91(4-6). Horizontal delineation was achieved through pre-remediation sampling (borings B-19, WCB-15, WCB-45, and WCB-46) and 2008 excavation boundaries.

Area 4: Excavation was required at this area based on the detection of several chlorinated ethenes above the non-residential RRS. The excavation for this area covered an area of approximately 415 square feet, and was performed to the top of groundwater at a depth of 10 feet. Horizontal delineation was achieved through pre-remediation sampling (boring B-19-03) and 2008 excavation boundaries. The entire area (approximately 150 cubic yards) was identified as potentially hazardous based on pre-remediation samples at locations WCV-76 and WCB-92. These soils were treated in two batches to the entire depth of excavation. A treatment confirmation sample was collected from each batch to confirm the soils did not exceed TCLP limits (Table 7), and the soils were direct loaded for off-site disposal. The first batch required retreatment and retesting three times prior to removal to meet TCLP limits.

Area 5: Excavation was required at this area based on the detection of PCE above the non-residential RRS. The excavation for this area covered an area of approximately 1,400 square feet, and was performed to a depth of 5 feet with vertical delineation provided by samples WCB-94(5-7), WCB-114(5-7), and WCB-115(5-7). Horizontal delineation was achieved through pre-remediation sampling (borings WCB-115 and B-20-03) and 2008 excavation boundaries, except for the northern boundary where confirmation samples WCTX-32(0-2)/(3-5) were collected for TCL VOCs, with results meeting non-residential RRS. A portion of the western boundary of this area also abutted the eastern boundary of excavation Area 7A described below.

A portion of Area 5 (approximately 60 cubic yards) was identified as potentially hazardous based on a pre-remediation sample at location WCV-77. These soils were treated in one batch to the total depth of

the excavation (5 feet). A treatment confirmation sample was collected from the batch to confirm the soils did not exceed TCLP limits (Table 7), and the soils were direct loaded for off-site disposal.

Area 6: Excavation was required at this area based on the detection of PCE and TCE above the non-residential RRS. The excavation for this area covered an area of approximately 1,200 square feet, and was performed to various depths. The northern two-thirds of the excavation was performed to a depth of 7 feet, delineated vertically by samples WCV-73(6-8) and WCB-117(6-8). The southern third was excavated to a depth of 3 feet, delineated vertically by sample WCB-117(3-5). Horizontal delineation was achieved through pre-remediation sampling and 2008 excavation boundaries, except for the southern boundary where confirmation samples WCTX-44(0-2) and WCTX-45(0-2) were collected for TCL VOCs, with results meeting non-residential RRS.

Former Pump Room Area: A total of 4,000 cubic yards of soil was excavated from the former Pump Room area between July 28 and September 18, 2014. This area was subdivided into three contiguous areas as described below. Soil sample results, including delineation and confirmation samples, are provided in Table 5, and sample locations and excavation limits are depicted on Figure 5.

Area 7A: Excavation was required at this area based on the detection of PCE above the non-residential RRS. The excavation for this area covered an area of approximately 1,400 square feet, and was performed to a depth of 6 feet with vertical delineation provided by samples WCB-98(6-8) and WCB-99(6-8). Horizontal delineation was achieved through pre-remediation sampling (borings WCB-49, B-20-03, and WCB-118), 2008 excavation boundaries, and common boundaries with other 2014 excavation areas (Areas 5 and 7B).

Area 7B: Excavation was required at this area based on the detection of naphthalene and several VOCs (including chlorinated benzenes, chlorinated ethenes, and petroleum-related hydrocarbons) above the non-residential RRS. The excavation for this area covered an area of approximately 5,880 square feet, and was performed to the top of groundwater, 12 to 13 feet below grade. Horizontal delineation was achieved through pre-remediation sampling (borings WCB-83, B-8, WCB-B8-02, B-31, WCB-10, WCB-52, WCB-82, WCB-104, WCB-103, and WCB-49), 2008 excavation boundaries, and common boundaries with other 2014 excavation areas (Areas 7A and 7C). Based on pre-remediation sampling, the top 4 feet in the southwest corner of the area and the top 5 feet in the northwest corner of the area (approximately 400 cubic yards) was stockpiled separately for reuse as backfill.

A portion of Area 7B (approximately 200 cubic yards) was identified as potentially hazardous based on pre-remediation samples at location WCB-47. These soils were treated in three batches to the total depth of the excavation (12 feet). A treatment confirmation sample was collected from each batch to confirm the soils did not exceed TCLP limits (Table 7), and the soils were direct loaded for off-site disposal.

Area 7C: Excavation was required at this area based on the detection of PCE above the non-residential RRS. The excavation for this area covered an area of approximately 2,750 square feet, and was performed primarily to the top of groundwater, 10 feet below grade, except for a small portion of the area which was excavated to a depth of 7 feet based on confirmation sample results. Horizontal delineation was achieved through pre-remediation sampling (borings B-17-03, WCV-72, and WCB-83), 2008 excavation boundaries, and a common boundary with 2014 excavation Area 7B, except for the eastern and southern boundaries. At these boundaries, the excavation was extended laterally 15 to 20

feet based on the results of confirmation samples collected for TCL VOCs. Upon obtaining confirmation sample results meeting non-residential RRS (samples at WCTX-67B and WCTX-68D), the area was backfilled.

Wastewater Treatment Facility Area: A total of 980 cubic yards of soil was excavated from the Wastewater Treatment Facility area between August 4 and August 19, 2014. This area was subdivided into three discrete areas as described below. Soil sample results, including delineation samples, are provided in Table 6, and sample locations and excavation limits are depicted on Figure 6.

Area 8: Excavation was required at this area based on the detection of several chlorinated benzenes above the non-residential RRS. The excavation for this area covered an area of approximately 630 square feet, and was performed to the top of groundwater at a depth of 14 feet. Horizontal delineation was achieved through pre-remediation sampling (borings WTF-VER74A, WCB-1, WCB-121, WCB-4, and WCB-56) and/or 2008 excavation boundaries. Based on pre-remediation sampling, the top 2 feet of soil in this area (approximately 50 cubic yards) was stockpiled separately for reuse as backfill.

Area 9: Excavation was required at this area based on the detection of PCE and chlorinated benzenes above the non-residential RRS. The excavation for this area covered an area of approximately 1,070 square feet, and was performed to various depths. The southern end of the area was excavated to a depth of 4 feet, delineated vertically by sample WCB-107(4-6). The remainder of the area was excavated to the top of groundwater, at depths ranging from 9 to 11 feet. Horizontal delineation was achieved through pre-remediation sampling (borings B-15-03, WCB-108, WCB-2, B-2, WCB-106, WCB-122, and WCB-123) and 2008 excavation boundaries. Based on pre-remediation sampling, the top 5 feet of soil in the northern half of this area (approximately 93 cubic yards), much of which was clean backfill from the 2008 excavation in this area, was stockpiled separately for reuse as backfill.

Area 10: Excavation was required at this area based on the detection of pesticides (4,4'-DDD and 4,4'-DDT) above the non-residential RRS. The excavation for this area covered an area of approximately 650 square feet, and was performed to various depths. The southern half of the area was excavated to a depth of 5 feet, delineated vertically by sample WCB-109(5-7), or 9 feet, delineated vertically by sample WCB-62(9-11). The remainder of the area was excavated to the top of groundwater, at a depth of 13 feet. Horizontal delineation was achieved through pre-remediation sampling (borings WCB-84, WCB-125, WCB-61, and WCB-60) and 2008 excavation boundaries. Based on pre-remediation sampling, the top 5 feet of soil in the northern third of this area (approximately 30 cubic yards) was stockpiled separately for reuse as backfill.

As noted in Section 4.4 and in the paragraphs above, all areas of the Former Oxford Chemical VRP Site have been thoroughly assessed for soil impacts. Soil on the Site has been delineated to VRP Type 1 RRS to determine the overall extent of impacts. Soil impacts above Type 1 RRS were found to be contained on the former Oxford Chemical property, and have not impacted surrounding properties. Within the areas delineated to have soil impacts above Type 1 RRS, further delineation was completed to define those areas above non-residential RRS establish on the Site. Remediation of those areas of soil impacts exceeding non-residential RRS have been completed using excavation and offsite disposal in a Subtitle D landfill. Rathon and Hillshire Brands respectfully requests EPD's concurrence with these efforts under the VRP, and approval of the Certification of Compliance for soil with non-residential RRS provided in Section 1 as soon as possible.

Section 6
Work to be Performed

The primary tasks anticipated to be completed during the next reporting period ending January 1, 2015 for the VRP are presented below.

Anticipated Tasks – September 1, 2014 through January 1, 2015:

- Continued delineation of groundwater on offsite, downgradient properties until delineation to Type 1 RRS has been achieved.
- If groundwater delineation is achieved during the next reporting period, groundwater modeling will be conducted to determine the point of compliance for groundwater, the current state of the plumes relative to equilibrium, and to begin to establish a preliminary groundwater monitoring period for VRP compliance.
- The potential for vapor intrusion into existing structures on the PVP properties, due to the groundwater impacts identified on these properties originating from the former Oxford Chemical property, will be evaluated.

The tasks required to complete the Voluntary Remediation Plan are presented on Figure 7, a revised estimated schedule. This schedule will be revised with the submittal of each VRP Semiannual Status Report, as required.

Section 7
Professional Services Hours This Period

A total of approximately 1,705 professional service hours have been completed by Woodard & Curran in the eight-month period from January 1, 2014 through August 31, 2013. Of these total hours, approximately 308 hours were utilized by the professional geologist overseeing the VRP project. The approximate distribution of hours per month utilized for implementation of the VRP during this period is presented in Table 8.

Tables

Table 1
April 3, 2014 Groundwater Level Measurements

WOODARD & CURRAN	2055 Sugarloaf Circle | Suite 175	Job Number	226278.00	Date	4/3/2014	
	Duluth, Georgia 30097	Client	Molson Coors	Sampler	JDK	
	T 770.622.6766	Project	Rathon	Time In/Out	1000	1620
	F 770.396.0095	Weather	P Cloudy Hot			

WATER LEVEL DATA

Well I.D.	Time	Top of Casing Elevation (feet)	Depth to Free Product (feet)	Depth to Water (feet)	Depth to Well Bottom (feet)	Product Thickness (feet)	Water Colum Height (feet)	Water Table Elevation (feet)	Notes/Other Remarks
MW-TX-S	1025	1007.41		7.58	15.10		7.52	999.83	
MW-TX-W	1030	1008.1		8.45	14.10		5.65	999.65	
MW-26	1034	1009.8		9.34	19.40		10.06	1000.46	
MW-25	1037	1015.04		9.47	19.50		10.03	1005.57	
MW-21	1042	1018.82		9.41	19.20		9.79	1009.41	
MW-20	1045	1011.59		5.42	14.80		9.38	1006.17	
MW-19	1055	1011.41		7.88	18.95		11.07	1003.53	
MW-18	1057	1019.2		9.58	24.40		14.82	1009.62	
MW-17	1102	1019.03		7.68	22.31		14.63	1011.35	
EW-D9	1141	1023.65		9.65	29.45		19.80	1014.00	
EW-D7	1144	1023.72		7.55	30.35		22.80	1016.17	
EW-D8	1150	1022.91		7.62	27.70		20.08	1015.29	
MW-6	1152	1025.71		11.40	28.90		17.50	1014.31	
EW-D3	1158	1024.23		5.70	29.70		24.00	1018.53	
EW-D5	1204	1026.77		11.70	24.00		12.30	1015.07	
EW-D6	1206	1026.4		11.94	29.50		17.56	1014.46	
MW-5	1208	1028.96		14.85	29.70		14.85	1014.11	
EW-A1	1214	1026.81		14.81	29.40		14.59	1012.00	
MW-3	12.29	1027.22	12.43	12.45		0.02		1014.77	
EW-B3	1236	1024.83		11.32	25.30		13.98	1013.51	
EW-B4	1239	1023.81		10.29	26.80		16.51	1013.52	
EW-A2	1242	1023.41		11.60	28.90		17.30	1011.81	
EW-A3	1246	1022.95		12.22	24.70		12.48	1010.73	
EW-B5	1250	1024.2		12.22	28.35		16.13	1011.98	

Table 1
(continued)

WOODARD & CURRAN	2055 Sugarloaf Circle | Suite 175	Job Number	226278.00	Date	4/3/2014	
	Duluth, Georgia 30097	Client	Molson Coors	Sampler	JDK	
	T 770.622.6766	Project	Rathon	Time In/Out	1000	1620
	F 770.396.0095	Weather	P Cloudy Hot			

WATER LEVEL DATA

Well I.D.	Time	Top of Casing Elevation (feet)	Depth to Free Product (feet)	Depth to Water (feet)	Depth to Well Bottom (feet)	Product Thickness (feet)	Water Colum Height (feet)	Water Table Elevation (feet)	Notes/Other Remarks
EW-A4	1258	1022.89		12.64	29.15		16.51	1010.25	
EW-B6	1301	1024.23		13.06	28.73		15.67	1011.17	
EW-A5	1304	1022.86		13.78	14.99		1.21	1009.08	
EW-A6	13.09	1022.12		13.76	29.25		15.49	1008.36	
MW-14	1313	1025.29		14.00	25.70		11.70	1011.29	
MW-13	1316	1025.27		13.25	25.11		11.86	1012.02	
MW-15	1320	1026.49		12.00	25.38		13.38	1014.49	
MW-16	1324	1025.07		5.49	20.34		14.85	1019.58	
EW-C7	1331	1022.21		3.25	28.05		24.80	1018.96	
BH-13	1333	1021.98		3.05	14.72		11.67	1018.93	
EW-C6	1339	1021.99		5.00	13.68		8.68	1016.99	
BH-22	1342	1025.53		10.25	21.00		10.75	1015.28	
EW-C8	1346	1021.63		7.15	28.46		21.31	1014.48	
BH-21	1350	1021.71		4.50	21.00		16.50	1017.21	
BH-20	1356	1021.7		6.65	19.21		12.56	1015.05	
BH-23	1349	1021.17		7.55	14.72		7.17	1013.62	
BH-19	1402	1021.27		7.74	16.81		9.07	1013.53	
MW-12	1404	1021.51		9.38	63.15		53.77	1012.13	
BH-15	1408	1021.48	7.55	7.57	24.77	0.02	17.20	1013.91	
EW-C9	1410	1021.23		8.60	28.50		19.90	1012.63	
BH-24	1418	1021.63		8.30	17.08		8.78	1013.33	
BH-16	1421	1020.89		7.45	14.28		6.83	1013.44	
BH-12	1423	1021.51		9.73	15.10		5.37	1011.78	
BH-17	1425	1021.06		7.75	19.18		11.43	1013.31	

Table 1
(continued)

WOODARD & CURRAN	2055 Sugarloaf Circle | Suite 175	Job Number	226278.00	Date	4/3/2014	
	Duluth, Georgia 30097	Client	Molson Coors	Sampler	JDK	
	T 770.622.6766	Project	Rathon	Time In/Out	1000	1620
	F 770.396.0095	Weather	P Cloudy Hot			

WATER LEVEL DATA

Well I.D.	Time	Top of Casing Elevation (feet)	Depth to Free Product (feet)	Depth to Water (feet)	Depth to Well Bottom (feet)	Product Thickness (feet)	Water Colum Height (feet)	Water Table Elevation (feet)	Notes/Other Remarks
BH-18	1429	1020.92		7.85	18.79		10.94	1013.07	Sock in well
BH-8							0.00	0.00	Lost under thick leaf pile
BH-7	1431	1020.85		7.68	13.74		6.06	1013.17	
MW-A	1436	1023.18		10.19	32.00		21.81	1012.99	
BH-11	1438	1021.39		7.14	13.73		6.59	1014.25	
BH-14	1439	1021.63		5.95	17.08		11.13	1015.68	
BH-10	1441	1021.8		4.14	13.41		9.27	1017.66	
BH-6	1443	1021.7		5.60	11.76		6.16	1016.10	
BH-9	1447	1021.92		7.70	14.65		6.95	1014.22	Sock in well
MW-1	1453	1022.88		6.35	17.10		10.75	1016.53	
PZ-1	1459	1020.31		9.70	19.30		9.60	1010.61	
PZ-2	1502	1019.55		10.05	19.00		8.95	1009.50	
MW-9	1505	1017.84		8.94	15.59		6.65	1008.90	
MW-11	1508	1018.15		9.74	28.96		19.22	1008.41	
MW-7	1511	1016.61		8.80	23.68		14.88	1007.81	
EW-A7	1513	1020.69		12.40	29.80		17.40	1008.29	
EW-A8	1515	1021.7		12.15	29.15		17.00	1009.55	
EW-A9	1517	1021.91		11.30	29.40		18.10	1010.61	
EW-A10	1519	1021.67		10.95	24.63		13.68	1010.72	
MW-2	1525	1031.72		10.75	26.29		15.54	1020.97	
MW-24	15.35	1032.38		11.52	30.12		18.60	1020.86	
MW-23	1540	1032.21		11.90	59.90		48.00	1020.31	

Table 2
Summary of Constituents Detected in Groundwater - PVP Properties
Former Oxford Chemicals VRP Site

Volatile Organic Compounds (ug/l)	RRS (ug/l)		MW-17	MW-18	MW-19	MW-20	MW-21	MW-25	MW-26	MW-TX-S	MW-TX-W
	Type 1	Type 3/4	11/13/13	11/13/13	11/13/13	11/13/13	11/13/13	12/18/13	12/18/13	3/13/14	3/13/14
1,1-Dichloroethane	4,000	4,000	5 U	49	5 U	5 U	5 U	5 U	5 U	5.1	5 U
1,1-Dichloroethene	7	1,300	5 U	**24**	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2,4-Trichlorobenzene	70	70	5.3	5 U	**260**	**870**	**330**	5 U	**630**	5 U	5 U
1,2-Dichlorobenzene	600	1,470	33	5 U	**790**	**970**	200	5 U	**1500**	5 U	5 U
1,3-Dichlorobenzene	600	600	5 U	5 U	46	48	10	5 U	71	5 U	5 U
1,4-Dichlorobenzene	75	75	6.9	5 U	**390**	**85**	19	5 U	**180**	5 U	5 U
Benzene	5	20	5 U	5 U	5 U	5 U	5 U	5 U	5 U	**230**	**47**
Chlorobenzene	100	361	5 U	5 U	**520**	23	5 U	5 U	8.5	5 U	5 U
cis-1,2-Dichloroethene	70	200	**240**	5 U	5.6	14	5 U	50	5 U	**120**	16
Cyclohexane	DL		5 U	5 U	5 U	5 U	5 U	5 U	5 U	**14**	**6.2**
Ethylbenzene	700	700	5 U	5 U	7.6	34	5 U	5 U	25	5 U	27
Isopropylbenzene	DL	2,610	5 U	5 U	5 U	**13**	5 U	5 U	**6**	**7.2**	**6.1**
Tetrachloroethene	5	220	5 U	**17**	5 U	5 U	**22**	**15**	**13**	5 U	5 U
Toluene	1,000	6,890	46	5 U	5 U	49	5 U	5 U	54	5 U	5.7
trans-1,2-Dichloroethene	100	420	5 U	20	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Trichloroethene	5	13	**13**	**9.2**	5 U	5 U	5 U	**5.2**	5 U	5 U	5 U
Vinyl chloride	2	3.7	2 U	**73**	2 U	2 U	2 U	2 U	2 U	**29**	2 U
Xylene, total	1,000	10,000	5 U	6.8	29	84	5	5 U	160	5 U	160

Notes:
All concentrations are in units of micrograms per liter (ug/l).
Only compounds detected in one or more monitoring wells are shown.
U = Compound not detected above method quantitation limit.
14 - Constituent detected above Type 1 RRS
19 - Constituent detected above Type 3/4 RRS

Table 3
Summary of Soil Analytical Data - Former East Tank Farm Area

	Location	Type 1 RRS	Non-Residential RRS		B-23-03A	B-23-03B	B-36	B-36	B-36	B-36	B-9	B-9	B-10	B-10	B-10	B-10	WCB-16
	Depth (feet bgs)		SS Soil (0-2')	SB Soil (>2')	4'-6'	8'-10'	(2-4)	(4-6)	(6-8)	(8-10)	5-7'	9-10'	0-2'	2-4'	9-10'	12-13'	0-2'
	Date Sampled		RRS	RRS	1/30/03	1/30/03	6/26/07	6/26/07	6/26/07	6/26/07	2/7/13	2/7/13	2/7/13	2/7/13	2/7/13	2/7/13	2/7/13
Volatiles-ug/kg																	
1,1,1-Trichloroethane		20,000	253,000	253,000	120	5 U					4.6 U	4.8 U	130,000	210000 U	94	210 U	4.1 U
1,1-Dichloroethane		400,000	400,000	400,000	29	5 U					4.6 U	4.8 U	4600 U	210000 U	78	210 U	4.1 U
1,1-Dichloroethene		700	700	700	7.1 U	5 U					4.6 U	4.8 U	13000	210000 U	60	210 U	4.1 U
1,2,4-Trichlorobenzene		10,800	10,800	10,800	330 U	330 U					4.6 U	4.8 U	12000	210000 U	35	210 U	4.1 U
1,2-Dichlorobenzene		60,000	60,000	60,000	460	330 U					4.6 U	4.8 U	2,400,000	4,400,000	18000	5700	4.1 U
1,3-Dichlorobenzene		60,000	60,000	60,000							4.6 U	4.8 U	38000	210000 U	57	210 U	4.1 U
1,4-Dichlorobenzene		7,500	7,500	7,500							4.6 U	4.8 U	320,000	540,000	1700	660	4.1 U
Acetone		400,000	400,000	400,000	81	94					92 U	97 U	91000 U	4200000 U	110	4200 U	83 U
Chlorobenzene		10,000	10,000	10,000	7.1 U	5 U					4.6 U	4.8 U	4600 U	210000 U	4.9 U	210 U	4.1 U
cis-1,2-Dichloroethene		7,000	7,000	7,000	210	14					4.6 U	4.8 U	5300	210000 U	6700	17000	4.1 U
Cyclohexane		20,000	1,093,000	1,093,000							4.6 U	4.8 U	4600 U	210000 U	4.9 U	210 U	4.1 U
Ethylbenzene		70,000	70,000	70,000	10	5 U					4.6 U	4.8 U	4600 U	210000 U	4.9 U	210 U	4.1 U
Isopropylbenzene		21,900	85,500	85,500							4.6 U	4.8 U	4600 U	210000 U	4.9 U	210 U	4.1 U
Methylene chloride		500	2,800	2,800	14 U	10 U					18 U	19 U	18000 U	850000 U	160	840 U	17 U
Tetrachloroethene (PCE)		500	500	500	430	12					4.6 U	4.8 U	2,400,000	4,400,000	1300	210	4.1 U
Toluene		100,000	100,000	100,000	75 U	5 U					4.6 U	4.8 U	13000	210000 U	24	210 U	4.1 U
trans-1,2-Dichloroethene		10,000	10,000	10,000							4.6 U	4.8 U	4600 U	210000 U	14	210 U	4.1 U
Trichloroethene (TCE)		500	500	500	100	5 U					4.6 U	4.8 U	1,200,000	2,800,000	1700	1400	4.1 U
Vinyl Chloride		200	200	200	7.1 U	5 U					9.2 U	9.7 U	9100 U	420000 U	18	420 U	8.3 U
Xylene (total)		1,000,000	1,000,000	1,000,000	82	15 U					4.6 U	4.8 U	11000	210000 U	24	210 U	4.1 U
Semivolatiles- ug/kg																	
bis(2-Ethyllhexyl)phthalate		50,000	326,000	326,000	330 U	330 U					440 U	460 U	460	2600	430 U	480 U	420 U
Fluorene		360,000	1,514,000	1,514,000							440 U	460 U	440 U	440 U	430 U	480 U	420 U
Naphthalene		100,000	100,000	100,000	330 U	330 U					440 U	460 U	2300	18000	430 U	480 U	420 U
Pesticides - mg/kg																	
4,4' -DDD		0.660	12.9	12.9	0.033 U	0.033 U	0.16	0.21	6.3	0.0041 U							
4,4' -DDE		0.660	9.15	9.15	0.033 U	0.033 U	0.12	0.098	0.91	0.0041 U							
4,4' -DDT		0.660	13.1	13.1	0.033 U	0.033 U	0.015	0.0041 U	0.99	0.0041 U							
Chlordane		9.20	9.2	9.2	0.33 U	0.33 U	0.002 U	0.002 U	0.24	0.002 U							
Dieldrin		0.660	0.66	0.66	0.033 U	0.033 U	0.0041 U	0.074	1.1	0.0041 U							
gamma-Chlordane		9.20	9.2	9.2	0.033 U	0.033 U	0.002 U	0.002 U	0.37	0.002 U							

Notes:

Only those compounds detected in one or more samples are shown.

Only those samples collected in 2013 or 2014 are shown, along with older samples relevant to the 2014 remediation/delineation.

U Analyte undetected at reporting limit shown

Denotes sample location was remediated by excavation and off-site disposal.

Denotes sample was collected at or beneath the groundwater table and thus not subject to removal.

Table 3
Summary of Soil Analytical Data - Former East Tank Farm Area

Location	Type 1 RRS	Non-Residential RRS		WCB-16	WCB-16	WCB-17	WCB-17	WCB-17	WCB-18	WCB-18	WCB-18	WCB-18	WCB-19	WCB-19	WCB-19	WCB-20	WCB-20	WCB-20
Depth (feet bgs)		SS Soil (0-2')	SB Soil (>2')	2-4'	8-9'	0-2'	2-4'	8-9'	0-2'	2-4'	8-9'	11-12'	0-2'	2-4'	6-7'	4-5'	8-9'	12-13'
Date Sampled		RRS	RRS	2/7/13	2/7/13	2/7/13	2/7/13	2/7/13	2/7/13	2/7/13	2/7/13	2/7/13	2/7/13	2/7/13	2/7/13	2/7/13	2/7/13	2/7/13
Volatiles-ug/kg																		
1,1,1-Trichloroethane	20,000	253,000	253,000	3.7 U	4.5 U	4.2 U	9.7	4.7 U	3.7 U	3.7 U	3.7 U	4.6 U	3.8 U	4.0 U	4.7 U	8.7	5.9	5.5
1,1-Dichloroethane	400,000	400,000	400,000	3.7 U	4.5 U	4.2 U	6.1 U	4.7 U	3.7 U	3.7 U	3.7 U	4.6 U	3.8 U	4.0 U	4.7 U	67	65	98
1,1-Dichloroethene	700	700	700	3.7 U	4.5 U	4.2 U	6.1 U	4.7 U	3.7 U	3.7 U	3.7 U	4.6 U	3.8 U	4.0 U	4.7 U	27	30	53
1,2,4-Trichlorobenzene	10,800	10,800	10,800	3.7 U	4.5 U	4.2 U	6.1 U	4.7 U	3.7 U	3.7 U	3.7 U	54	3.8 U	4.0 U	4.7 U	12	3.9 U	4.3 U
1,2-Dichlorobenzene	60,000	60,000	60,000	3.7 U	4.5 U	4.2 U	6.1 U	4.7 U	3.7 U	3.7 U	3.7 U	1700	3.8 U	4.0 U	4.7 U	4300	13000	510
1,3-Dichlorobenzene	60,000	60,000	60,000	3.7 U	4.5 U	4.2 U	6.1 U	4.7 U	3.7 U	3.7 U	3.7 U	570	3.8 U	4.0 U	4.7 U	26	7.8	6.7
1,4-Dichlorobenzene	7,500	7,500	7,500	3.7 U	4.5 U	4.2 U	6.1 U	4.7 U	3.7 U	3.7 U	3.7 U	360	3.8 U	4.0 U	4.7 U	380	47	43
Acetone	400,000	400,000	400,000	74 U	90 U	84 U	120 U	94 U	74 U	74 U	74 U	92 U	75 U	79 U	93 U	65 U	78 U	87 U
Chlorobenzene	10,000	10,000	10,000	3.7 U	4.5 U	4.2 U	6.1 U	4.7 U	3.7 U	3.7 U	3.7 U	4.6 U	3.8 U	4.0 U	4.7 U	26	10	16
cis-1,2-Dichloroethene	7,000	7,000	7,000	3.7 U	4.5 U	4.2 U	6.1 U	4.7 U	3.7 U	3.7 U	63	480	3.8 U	4.0 U	4.7 U	8100	11000	5000
Cyclohexane	20,000	1,093,000	1,093,000	3.7 U	4.5 U	4.2 U	6.1 U	4.7 U	3.7 U	3.7 U	3.7 U	6.9	3.8 U	4.0 U	4.7 U	3.3 U	3.9 U	4.3 U
Ethylbenzene	70,000	70,000	70,000	3.7 U	4.5 U	4.2 U	6.1 U	4.7 U	3.7 U	3.7 U	3.7 U	32	3.8 U	4.0 U	4.7 U	3.9	3.9 U	4.3 U
Isopropylbenzene	21,900	85,500	85,500	3.7 U	4.5 U	4.2 U	6.1 U	4.7 U	3.7 U	3.7 U	3.7 U	21	3.8 U	4.0 U	4.7 U	3.3 U	3.9 U	4.3 U
Methylene chloride	500	2,800	2,800	15 U	18 U	17 U	24 U	19 U	15 U	15 U	15 U	18 U	15 U	16 U	19 U	13 U	16 U	17 U
Tetrachloroethene (PCE)	500	500	500	3.7 U	4.5 U	4.2 U	58	810	3.7 U	3.7 U	5	15	110	4.0 U	4.7 U	41	26	62
Toluene	100,000	100,000	100,000	3.7 U	4.5 U	4.2 U	6.1 U	4.7 U	3.7 U	3.7 U	3.7 U	4.6 U	3.8 U	4.0 U	4.7 U	7.7	5.7	4.3 U
trans-1,2-Dichloroethene	10,000	10,000	10,000	3.7 U	4.5 U	4.2 U	6.1 U	4.7 U	3.7 U	3.7 U	3.7 U	4.6 U	3.8 U	4.0 U	4.7 U	15	14	18
Trichloroethene (TCE)	500	500	500	3.7 U	4.5 U	4.2 U	6.9	50	5.4	3.7 U	18	4.6 U	14	4.0 U	4.7 U	22	59	240
Vinyl Chloride	200	200	200	7.4 U	9 U	8.4 U	12 U	9.4 U	7.4 U	7.4 U	7.4 U	9.2 U	7.5 U	7.9 U	9.3 U	56	47	54
Xylene (total)	1,000,000	1,000,000	1,000,000	3.7 U	4.5 U	4.2 U	6.1 U	4.7 U	3.7 U	3.7 U	3.7 U	7.7	3.8 U	4.0 U	4.7 U	18	9.3	4.3 U
Semivolatiles- ug/kg																		
bis(2-Ethyllhexyl)phthalate	50,000	326,000	326,000	440 U	470 U	400 U	440 U	470 U	390 U	390 U	400 U	440 U	420 U	400 U	460 U	380 U	440 U	470 U
Fluorene	360,000	1,514,000	1,514,000	440 U	470 U	400 U	440 U	470 U	390 U	390 U	400 U	440 U	420 U	400 U	460 U	380 U	440 U	470 U
Naphthalene	100,000	100,000	100,000	440 U	470 U	400 U	440 U	470 U	390 U	390 U	400 U	440 U	420 U	400 U	460 U	380 U	440 U	470 U
Pesticides - mg/kg																		
4,4' -DDD	0.660	12.9	12.9															
4,4' -DDE	0.660	9.15	9.15															
4,4' -DDT	0.660	13.1	13.1															
Chlordane	9.20	9.2	9.2															
Dieldrin	0.660	0.66	0.66															
gamma-Chlordane	9.20	9.2	9.2															

Table 3
Summary of Soil Analytical Data - Former East Tank Farm Area

Location	Type 1 RRS	Non-Residential RRS		WCB-21	WCB-21	WCB-21	WCB-21	WCB-22	WCB-22	WCB-22	WCB-23	WCB-23	WCB-23	WCB-24	WCB-24	WCB-24
Depth (feet bgs)		SS Soil (0-2')	SB Soil (>2')	0-2'	2-4'	7-8'	10-11'	2-4'	9-10'	11-12'	2-4'	9-10'	14-15'	0-2'	2-4'	5-7'
Date Sampled		RRS	RRS	2/7/13	2/7/13	2/7/13	2/7/13	2/7/13	2/7/13	2/7/13	2/7/13	2/7/13	2/7/13	2/7/13	2/7/13	2/7/13
Volatiles-ug/kg																
1,1,1-Trichloroethane	20,000	253,000	253,000	8500	5300	19	10	1000	500	290	4.7 U	4.3 U	29			
1,1-Dichloroethane	400,000	400,000	400,000	450 U	2100 U	250	230	420 U	260	230	4.7 U	4.3 U	7.2			
1,1-Dichloroethene	700	700	700	1700	2100 U	130	120	480	300	210	4.7 U	4.3 U	5.6 U			
1,2,4-Trichlorobenzene	10,800	10,800	10,800	7800	5000	7.1	36	1100	13	5.5	4.7 U	4.3 U	5.6 U			
1,2-Dichlorobenzene	60,000	60,000	60,000	1,100,000	1,000,000	3600	4700	39000	5.9	17	4.7 U	4.3 U	5.6 U			
1,3-Dichlorobenzene	60,000	60,000	60,000	7000	5800	28	70	1800	66	37	4.7 U	4.3 U	5.6 U			
1,4-Dichlorobenzene	7,500	7,500	7,500	46000	49000	310	370	4100	210	140	4.7 U	4.3 U	5.6 U			
Acetone	400,000	400,000	400,000	9000 U	41000 U	72 U	230	8400 U	80 U	83 U	94 U	87 U	110 U			
Chlorobenzene	10,000	10,000	10,000	450 U	2100 U	5.6	14	420 U	4.0 U	4.1 U	4.7 U	4.3 U	5.6 U			
cis-1,2-Dichloroethene	7,000	7,000	7,000	20000	41000	18000	13000	47000	15000	12000	4.7 U	4.3 U	170			
Cyclohexane	20,000	1,093,000	1,093,000	450 U	2100 U	3.6 U	5.4 U	420 U	4.0 U	4.1 U	4.7 U	4.3 U	5.6 U			
Ethylbenzene	70,000	70,000	70,000	4900	4800	14	14	750	4.0 U	4.1 U	4.7 U	4.3 U	5.6 U			
Isopropylbenzene	21,900	85,500	85,500	450 U	2100 U	3.6 U	5.4 U	420 U	4.0 U	4.1 U	4.7 U	4.3 U	5.6 U			
Methylene chloride	500	2,800	2,800	1800 U	8300 U	14 U	22 U	1700 U	16 U	17 U	19 U	17 U	22 U			
Tetrachloroethene (PCE)	500	500	500	1,100,000	1,000,000	70	7.8	420 U	1200	470	60	65	110			
Toluene	100,000	100,000	100,000	4200	5400	77	66	420 U	4.3	7.7	4.7 U	4.3 U	5.6 U			
trans-1,2-Dichloroethene	10,000	10,000	10,000	450 U	2100 U	97	95	670	100	86	4.7 U	4.3 U	5.6 U			
Trichloroethene (TCE)	500	500	500	200,000	210,000	190	5.4 U	420 U	2300	870	6.1	14	160			
Vinyl Chloride	200	200	200	900 U	4100 U	120	190	840 U	10	16	9.4 U	8.7 U	11 U			
Xylene (total)	1,000,000	1,000,000	1,000,000	26000	26000	43	59	4400	4.0 U	4.1 U	15	4.3 U	5.6 U			
Semivolatiles- ug/kg																
bis(2-Ethyllhexyl)phthalate	50,000	326,000	326,000	1100	440 U	430 U	520 U	440 U	440 U	450 U	420 U	440 U	450 U			
Fluorene	360,000	1,514,000	1,514,000	470	440 U	430 U	520 U	440 U	440 U	450 U	420 U	440 U	450 U			
Naphthalene	100,000	100,000	100,000	6900	1300	430 U	520 U	440 U	440 U	450 U	420 U	440 U	450 U			
Pesticides - mg/kg																
4,4' -DDD	0.660	12.9	12.9													
4,4' -DDE	0.660	9.15	9.15													
4,4' -DDT	0.660	13.1	13.1													
Chlordane	9.20	9.2	9.2													
Dieldrin	0.660	0.66	0.66											4.2 U	4200 U	4.4 U
gamma-Chlordane	9.20	9.2	9.2													

Table 3
Summary of Soil Analytical Data - Former East Tank Farm Area

Location	Type 1 RRS	Non-Residential RRS		WCB-25	WCB-25	WCB-25	WCB-B11	WCB-B11	WCB-B11	WCB-34	WCB-34	WCB-35	WCB-35	WCB-36	WCB-36	WCB-38	WCB-38	WCB-38
Depth (feet bgs)		SS Soil (0-2')	SB Soil (>2')	0-2'	2-4'	5-7'	0-2'	3-5'	5-7'	0-2'	3-5'	0-2'	3-5'	0-2'	3-5'	0-2'	3-5'	8-10'
Date Sampled		RRS	RRS	2/7/13	2/7/13	2/7/13	9/11/13	9/11/13	9/11/13	9/11/13	9/11/13	9/11/13	9/11/13	9/11/13	9/11/13	9/11/13	9/11/13	9/11/13
Volatiles-ug/kg																		
1,1,1-Trichloroethane	20,000	253,000	253,000				3.6 U	3.1 U	3.1 U	3.5 U	2.8 U	3.6 U	3.0 U	3.6 U	4.0 U	1900 U	150 U	4.1 U
1,1-Dichloroethane	400,000	400,000	400,000				3.6 U	3.1 U	3.1 U	3.5 U	2.8 U	3.6 U	3.0 U	3.6 U	4.0 U	1900 U	150 U	4.1 U
1,1-Dichloroethene	700	700	700				3.6 U	3.1 U	3.1 U	3.5 U	2.8 U	3.6 U	3.0 U	3.6 U	4.0 U	1900 U	150 U	4.1 U
1,2,4-Trichlorobenzene	10,800	10,800	10,800				7	3.5	3.1 U	3.5 U	2.8 U	3.6 U	3.0 U	3.6 U	4.0 U	52000	6500	4.1 U
1,2-Dichlorobenzene	60,000	60,000	60,000				100	6400	5.2	3.5 U	5.4	3.6 U	3.0 U	3.6 U	4.0 U	670,000	89000	89
1,3-Dichlorobenzene	60,000	60,000	60,000				17	56	3.1 U	3.5 U	2.8 U	3.6 U	3.0 U	3.6 U	4.0 U	70000	7900	14
1,4-Dichlorobenzene	7,500	7,500	7,500				23	79	3.1 U	3.5 U	2.8 U	3.6 U	3.0 U	3.6 U	4.0 U	99000	12000	23
Acetone	400,000	400,000	400,000				73 U	62 U	62 U	69 U	56 U	72 U	61 U	120	80 U	39000 U	3100 U	82 U
Chlorobenzene	10,000	10,000	10,000				10	1200	4.2	3.5 U	2.8 U	3.6 U	3.0 U	3.6 U	4.0 U	1900 U	2100	64
cis-1,2-Dichloroethene	7,000	7,000	7,000				39	3500	81	1500	530	12	8.5	3.6 U	4.0 U	8500	4500	1900
Cyclohexane	20,000	1,093,000	1,093,000				3.6 U	3.1 U	3.1 U	3.5 U	2.8 U	3.6 U	3.0 U	3.6 U	4.0 U	1900 U	150 U	4.1 U
Ethylbenzene	70,000	70,000	70,000				3.6 U	3.1 U	3.1 U	3.5 U	2.8 U	3.6 U	3.0 U	3.6 U	4.0 U	3800	320	4.1 U
Isopropylbenzene	21,900	85,500	85,500				3.6 U	3.1 U	3.1 U	3.5 U	2.8 U	3.6 U	3.0 U	3.6 U	4.0 U	1900 U	150 U	4.1 U
Methylene chloride	500	2,800	2,800				15 U	12 U	12 U	14 U	11 U	14 U	12 U	14 U	16 U	7700 U	610 U	16 U
Tetrachloroethene (PCE)	500	500	500				2400	3200	330	3.5 U	9.5	47	36	14	16	2600	300	9.4
Toluene	100,000	100,000	100,000				3.6 U	3.1 U	3.1 U	3.5 U	2.8 U	3.6 U	3.0 U	3.6 U	4.0 U	1900 U	150 U	4.1 U
trans-1,2-Dichloroethene	10,000	10,000	10,000				3.6 U	24	3.1 U	6.9	17	3.6 U	3.0 U	3.6 U	4.0 U	1900 U	150 U	5.7
Trichloroethene (TCE)	500	500	500				29	61	13	3.5 U	2.8 U	5.5	23	3.6 U	4.0 U	1900 U	150 U	5.1
Vinyl Chloride	200	200	200				7.3 U	14	6.2 U	6.9 U	5.6 U	7.2 U	6.1 U	7.2 U	8.0 U	3900 U	310 U	8.2 U
Xylene (total)	1,000,000	1,000,000	1,000,000				3.6 U	3.5	3.1 U	3.5 U	2.8 U	3.6 U	3.0 U	3.6 U	4.0 U	19000	1200	4.1 U
Semivolatiles- ug/kg																		
bis(2-Ethyllhexyl)phthalate	50,000	326,000	326,000															
Fluorene	360,000	1,514,000	1,514,000															
Naphthalene	100,000	100,000	100,000															
Pesticides - mg/kg																		
4,4' -DDD	0.660	12.9	12.9															
4,4' -DDE	0.660	9.15	9.15															
4,4' -DDT	0.660	13.1	13.1															
Chlordane	9.20	9.2	9.2															
Dieldrin	0.660	0.66	0.66	4.1 U	4.1 U	5.0 U												
gamma-Chlordane	9.20	9.2	9.2															

Table 3
Summary of Soil Analytical Data - Former East Tank Farm Area

Location	Type 1 RRS	Non-Residential RRS		WCB-38	WCB-39	WCB-39	WCB-39	WCB-39	WCB-40	WCB-40	WCB-40	WCB-40	WCB-41	WCB-41	WCB-41	WCB-41	WCB-42
Depth (feet bgs)		SS Soil (0-2')	SB Soil (>2')	11-12'	0-2'	3-5'	8-10'	11-12'	0-2'	3-5'	8-10'	11-12'	0-2'	3-5'	8-10'	11-12'	0-2'
Date Sampled		RRS	RRS	9/11/13	9/11/13	9/11/13	9/11/13	9/11/13	9/11/13	9/11/13	9/11/13	9/11/13	9/11/13	9/11/13	9/11/13	9/11/13	9/11/13
Volatiles-ug/kg																	
1,1,1-Trichloroethane	20,000	253,000	253,000	4.1 U	3.1 U	3.7 U	6.7	4.9	3.7 U	3.3 U	3.6 U	4.4 U	3.7 U	4.1 U	3.5 U	4.5 U	49000
1,1-Dichloroethane	400,000	400,000	400,000	14	3.1 U	36	86	100	5.1	8.4	10	24	3.7 U	11	8.2	9.6	6700
1,1-Dichloroethene	700	700	700	9.2	3.1 U	8.5	29	45	3.7 U	3.3 U	3.8	8.2	3.7 U	7.5	3.5 U	4.5 U	6500
1,2,4-Trichlorobenzene	10,800	10,800	10,800	4.1 U	3.1 U	3.7 U	4 U	4.3	3.7 U	3.3 U	3.6 U	4.4 U	3.7 U	4.8	3.5 U	4.5 U	10000
1,2-Dichlorobenzene	60,000	60,000	60,000	94	1700	4400	450	630	18	91	36	87	29	4200	67	86	2,900,000
1,3-Dichlorobenzene	60,000	60,000	60,000	16	3.1 U	13	11	38	3.7 U	3.3 U	3.6 U	4.4 U	3.7 U	64	3.5 U	4.5 U	32000
1,4-Dichlorobenzene	7,500	7,500	7,500	28	6.5	130	64	170	3.7 U	7.5	3.7	7.7	3.7 U	670	11	17	120,000
Acetone	400,000	400,000	400,000	81 U	63 U	73 U	81 U	71 U	74 U	66 U	72 U	87 U	73 U	82 U	71 U	89 U	64000 U
Chlorobenzene	10,000	10,000	10,000	120	11	1400	1200	1200	4.1	13	3.7	8.3	3.7 U	110	54	91	3300
cis-1,2-Dichloroethene	7,000	7,000	7,000	2900	37	1700	3000	3600	430	800	1200	1900	84	830	140	140	190,000
Cyclohexane	20,000	1,093,000	1,093,000	4.1 U	3.1 U	3.7 U	4 U	3.6 U	3.7 U	3.3 U	3.6 U	4.4 U	3.7 U	4.1 U	3.5 U	4.5 U	3200 U
Ethylbenzene	70,000	70,000	70,000	4.1 U	3.1 U	58	7	7.2	3.7 U	3.3 U	3.6 U	4.4 U	3.7 U	4.1 U	3.5 U	4.5 U	18000
Isopropylbenzene	21,900	85,500	85,500	4.1 U	3.1 U	3.7 U	4 U	3.6 U	3.7 U	3.3 U	3.6 U	4.4 U	3.7 U	4.1 U	3.5 U	4.5 U	3200 U
Methylene chloride	500	2,800	2,800	16 U	13 U	15 U	16 U	14 U	15 U	13 U	14 U	17 U	15 U	16 U	14 U	18 U	13000 U
Tetrachloroethene (PCE)	500	500	500	25	13	3.7 U	15	140	26	4.1	3.6 U	4.4 U	45	40	3.5 U	4.5 U	6,500,000
Toluene	100,000	100,000	100,000	4.1 U	3.1 U	7	7.3	9.8	3.7 U	3.3 U	3.6 U	4.4 U	3.7 U	4.1 U	3.5 U	4.5 U	200,000
trans-1,2-Dichloroethene	10,000	10,000	10,000	16	3.1 U	27	31	39	6.3	10	4.3	9.3	3.7 U	20	3.5 U	4.5 U	3200 U
Trichloroethene (TCE)	500	500	500	19	4.2	3.7 U	4 U	13	38	50	8.9	14	56	53	3.5 U	4.5 U	350,000
Vinyl Chloride	200	200	200	8.1 U	6.3 U	86	160	170	7.4 U	6.6 U	11	25	7.3 U	9	17	21	6400 U
Xylene (total)	1,000,000	1,000,000	1,000,000	4.1 U	5.2	110	47	61	3.7 U	5	3.6 U	4.4 U	3.7 U	4.1 U	3.5 U	4.5 U	80000
Semivolatiles- ug/kg																	
bis(2-Ethyllhexyl)phthalate	50,000	326,000	326,000														
Fluorene	360,000	1,514,000	1,514,000														
Naphthalene	100,000	100,000	100,000														
Pesticides - mg/kg																	
4,4' -DDD	0.660	12.9	12.9														
4,4' -DDE	0.660	9.15	9.15														
4,4' -DDT	0.660	13.1	13.1														
Chlordane	9.20	9.2	9.2														
Dieldrin	0.660	0.66	0.66														
gamma-Chlordane	9.20	9.2	9.2														

Table 3
Summary of Soil Analytical Data - Former East Tank Farm Area

Location	Type 1 RRS	Non-Residential RRS		WCB-42	WCB-42	WCB-43	WCB-43	WCB-43	WCB-43	WCB-44	WCB-80	WCB-80	WCB-85	WCB-85	WCB-86	WCB-87	WCB-87
Depth (feet bgs)		SS Soil (0-2')	SB Soil (>2')	3-5'	8-10'	0-2'	3-5'	8-10'	11-13'	5-7'	0-2'	2-4'	0-2'	3-5'	0-2'	0-2'	3-5'
Date Sampled		RRS	RRS	9/11/13	9/11/13	9/11/13	9/11/13	9/11/13	9/11/13	9/11/13	9/11/13	9/11/13	4/9/14	4/9/14	4/9/14	4/9/14	4/9/14
Volatiles-ug/kg																	
1,1,1-Trichloroethane	20,000	253,000	253,000	3.9 U	4.3 U	4.4 U	4.2 U	3.9 U	6.0 U	4.2 U	3.4 U	3.9 U	3.8 U	3.6 U	1000	180 U	170 U
1,1-Dichloroethane	400,000	400,000	400,000	240	12	4.4 U	4.2 U	3.9 U	6.0 U	4.2 U	3.4 U	3.9 U	3.8 U	3.6 U	7.2	180 U	170 U
1,1-Dichloroethene	700	700	700	3.9 U	4.3 U	4.4 U	4.2 U	3.9 U	6.0 U	4.2 U	3.4 U	3.9 U	3.8 U	3.6 U	6.1	180 U	170 U
1,2,4-Trichlorobenzene	10,800	10,800	10,800	3.9 U	4.3 U	4.4 U	4.2 U	3.9 U	6.0 U	4.2 U	3.4 U	3.9 U	3.8 U	3.6 U	3.8 U	180 U	170 U
1,2-Dichlorobenzene	60,000	60,000	60,000	370	75	4.4 U	4.2 U	3.9 U	6.0 U	4.2 U	53	19	3.8 U	3.6 U	62	180 U	170 U
1,3-Dichlorobenzene	60,000	60,000	60,000	15	14	4.4 U	4.2 U	3.9 U	6.0 U	4.2 U	44	11	3.8 U	3.6 U	16	180 U	170 U
1,4-Dichlorobenzene	7,500	7,500	7,500	55	20	4.4 U	4.2 U	3.9 U	6.0 U	4.2 U	22	9.6	3.8 U	3.6 U	11	180 U	170 U
Acetone	400,000	400,000	400,000	78 U	86 U	87 U	85 U	78 U	120 U	84 U	69 U	78 U	77 U	71 U	310	3600 U	3500 U
Chlorobenzene	10,000	10,000	10,000	800	27	4.4 U	4.2 U	3.9 U	6.0 U	4.2 U	120	51	3.8 U	3.6 U	3.8 U	180 U	170 U
cis-1,2-Dichloroethene	7,000	7,000	7,000	390	950	4.4 U	4.2 U	6.3	9.6	4.2 U	8.5	21	3.8 U	11	23	180 U	170 U
Cyclohexane	20,000	1,093,000	1,093,000	3.9 U	4.3 U	4.4 U	4.2 U	3.9 U	6.0 U	4.2 U	3.4 U	3.9 U	3.8 U	3.6 U	3.8 U	180 U	170 U
Ethylbenzene	70,000	70,000	70,000	18	4.3 U	4.4 U	4.2 U	3.9 U	6.0 U	4.2 U	3.4 U	3.9 U	3.8 U	3.6 U	3.8 U	180 U	170 U
Isopropylbenzene	21,900	85,500	85,500	3.9 U	4.3 U	4.4 U	4.2 U	3.9 U	6.0 U	4.2 U	3.4 U	3.9 U	3.8 U	3.6 U	3.8 U	180 U	170 U
Methylene chloride	500	2,800	2,800	16 U	17 U	17 U	17 U	16 U	24 U	17 U	14 U	16 U	15 U	14 U	15 U	720 U	700 U
Tetrachloroethene (PCE)	500	500	500	140	44	120	93	18	21	4.2 U	11	3.9 U	3.8 U	5.1	1,000,000	180 U	1000
Toluene	100,000	100,000	100,000	200	4.3 U	4.4 U	4.2 U	3.9 U	6.0 U	4.2 U	3.4 U	3.9 U	3.8 U	3.6 U	5.9	180 U	170 U
trans-1,2-Dichloroethene	10,000	10,000	10,000	21	6.2	4.4 U	4.2 U	3.9 U	6.0 U	4.2 U	3.4 U	3.9 U	3.8 U	3.6 U	3.8 U	180 U	170 U
Trichloroethene (TCE)	500	500	500	16	8.9	8.6	8.5	4.7	7.6	4.2 U	3.4 U	3.9 U	3.8 U	11	26000	180 U	170 U
Vinyl Chloride	200	200	200	220	27	8.7 U	8.5 U	7.8 U	12 U	8.4 U	12	7.8 U	7.7 U	7.1 U	7.6 U	360 U	350 U
Xylene (total)	1,000,000	1,000,000	1,000,000	70	4.3 U	25	6.7	11	86	4.2 U	3.4 U	3.9 U	3.8 U	3.6 U	4.5	180 U	170 U
Semivolatiles- ug/kg																	
bis(2-Ethyllhexyl)phthalate	50,000	326,000	326,000														
Fluorene	360,000	1,514,000	1,514,000														
Naphthalene	100,000	100,000	100,000														
Pesticides - mg/kg																	
4,4' -DDD	0.660	12.9	12.9														
4,4' -DDE	0.660	9.15	9.15														
4,4' -DDT	0.660	13.1	13.1														
Chlordane	9.20	9.2	9.2														
Dieldrin	0.660	0.66	0.66														
gamma-Chlordane	9.20	9.2	9.2														

Table 3
Summary of Soil Analytical Data - Former East Tank Farm Area

Location	Type 1 RRS	Non-Residential RRS		WCB-88	WCB-89	WCB-89	WCB-89	WCB-111	WCB-112	WCB-112	WCTX-18	WCTX-18	WCTX-1S	WCTX-1E	WCTX-1N	WCTX-1W
Depth (feet bgs)		SS Soil (0-2')	SB Soil (>2')	5-7'	3-5'	5-7'	7-9'	5-7'	0-2'	4-5'	0-2'	2-4'	6-8'	6-8'	6-8'	6-8'
Date Sampled		RRS	RRS	4/9/14	4/9/14	4/9/14	4/9/14	5/19/14	5/19/14	5/19/14	8/11/14	8/11/14	8/13/14	8/13/14	8/13/14	8/13/14
Volatiles-ug/kg																
1,1,1-Trichloroethane	20,000	253,000	253,000	3.5 U	180 U	4.5 U	4.7 U	4.5 U	4.4 U	4.1 U	4.3 U	3.8 U				
1,1-Dichloroethane	400,000	400,000	400,000	57	180 U	4.5 U	4.7 U	4.5 U	4.4 U	4.1 U	4.3 U	4				
1,1-Dichloroethene	700	700	700	12	180 U	4.5 U	4.7 U	4.5 U	4.4 U	4.1 U	4.3 U	3.8 U				
1,2,4-Trichlorobenzene	10,800	10,800	10,800	12	180 U	4.5 U	4.7 U	4.5 U	4.4 U	4.6	4.3 U	3.8 U				
1,2-Dichlorobenzene	60,000	60,000	60,000	63000	180 U	4.5 U	4.7 U	12	4.4 U	46	4.3 U	110				
1,3-Dichlorobenzene	60,000	60,000	60,000	3500	180 U	4.5 U	4.7 U	30	4.4 U	19	4.3 U	32				
1,4-Dichlorobenzene	7,500	7,500	7,500	11000	180 U	4.5 U	4.7 U	68	4.9	21	4.3 U	37				
Acetone	400,000	400,000	400,000	69 U	3500 U	89 U	94 U	89 U	87 U	82 U	85 U	77 U				
Chlorobenzene	10,000	10,000	10,000	9500	180 U	4.5 U	4.7 U	2200	4.4 U	4.1 U	4.3 U	3.8 U				
cis-1,2-Dichloroethene	7,000	7,000	7,000	13000	180 U	4.5 U	4.7 U	8.9	38	180	38	4200				
Cyclohexane	20,000	1,093,000	1,093,000	3.5 U	180 U	4.5 U	4.7 U	4.5 U	4.4 U	4.1 U	4.3 U	3.8 U				
Ethylbenzene	70,000	70,000	70,000	110	180 U	4.5 U	4.7 U	4.5 U	4.4 U	4.4	4.3 U	3200				
Isopropylbenzene	21,900	85,500	85,500	35	180 U	4.5 U	4.7 U	4.5 U	4.4 U	4.1 U	4.3 U	62				
Methylene chloride	500	2,800	2,800	14 U	710 U	18 U	19 U	18 U	17 U	16 U	17 U	15 U				
Tetrachloroethene (PCE)	500	500	500	97	180 U	12	4.7 U	4.5 U	1100	270	39	360				
Toluene	100,000	100,000	100,000	91	180 U	4.5 U	4.7 U	4.5 U	4.4 U	4.1 U	4.3 U	960				
trans-1,2-Dichloroethene	10,000	10,000	10,000	45	180 U	4.5 U	4.7 U	4.5 U	4.4 U	4.5	4.3 U	28				
Trichloroethene (TCE)	500	500	500	3.5 U	180 U	12	6.5	4.5 U	110	96	12	140				
Vinyl Chloride	200	200	200	70	350 U	8.9 U	9.4 U	8.9 U	8.7 U	8.2 U	8.5 U	7.7 U				
Xylene (total)	1,000,000	1,000,000	1,000,000	340	180 U	4.5 U	4.7 U	4.5 U	21	34	4.3 U	21000				
Semivolatiles- ug/kg																
bis(2-Ethyllhexyl)phthalate	50,000	326,000	326,000													
Fluorene	360,000	1,514,000	1,514,000													
Naphthalene	100,000	100,000	100,000													
Pesticides - mg/kg																
4,4' -DDD	0.660	12.9	12.9										0.72	0.037	0.0043 U	0.0043 U
4,4' -DDE	0.660	9.15	9.15										0.25	0.12	0.0043 U	0.0043 U
4,4' -DDT	0.660	13.1	13.1										0.033	0.07	0.0043 U	0.0043 U
Chlordane	9.20	9.2	9.2										0.0021 U	0.0019 U	0.0021 U	0.0022 U
Dieldrin	0.660	0.66	0.66										0.0041 U	0.0039 U	0.0043 U	0.0043 U
gamma-Chlordane	9.20	9.2	9.2										0.0021 U	0.0019 U	0.0021 U	0.0022 U

Table 4
Summary of Soil Analytical Data - Wastewater Sewer Area

Location	Type 1 RRS	Non-Residential RRS		B-19-03A	B-19-03B	B-19-03C	B-19-03D	B-20-03A	B-20-03B	B-20-03C	B-19	B-19	B-19	B-22-03	B-22-03
Depth (feet bgs)		SS Soil (0-2')	SB Soil (>2')	2'-4'	4'-6'	8'-10'	12'-14'	2'-4'	4'-6'	8'-10'	2-4'	9-10'	16-17'	0-2'	2-4'
Date Sampled		RRS	RRS	1/30/03	1/30/03	1/30/03	1/30/03	1/30/03	1/30/03	1/30/03	2/5/13	2/5/13	2/5/13	2/5/13	2/5/13
Volatiles-ug/kg															
1,1,1-Trichloroethane	20,000	253,000	253,000	8 U	6.5 U	8.6 U	5 U	5 U	5 U	5 U	6.4	4.4 U	22	20	150
1,1-Dichloroethane	400,000	400,000	400,000	8 U	6.5 U	8.6 U	5 U	5 U	5 U	5 U	11	4.4 U	29	270	96
1,1-Dichloroethene	700	700	700	8 U	6.5 U	8.6 U	5 U	5 U	5 U	5 U	3.7	4.4 U	6.9	10	17
1,2,4-Trichlorobenzene	10,800	10,800	10,800	330 U	330 U	330 U	330 U	330 U	330 U	330 U	3.5 U	4.4 U	4.4 U	35	30
1,2-Dichlorobenzene	60,000	60,000	60,000	330 U	330 U	330 U	330 U	330 U	330 U	330 U	3.5 U	4.4 U	4.4 U	4100	1600
1,2-Dichloroethane	500	500	500	8 U	6.5 U	8.6 U	5 U	5 U	5 U	5 U	3.5 U	4.4 U	4.4 U	4.3 U	3.9 U
1,2-Dichloropropane	500	500	500								3.5 U	4.4 U	4.4 U	21	20
1,3-Dichlorobenzene	60,000	60,000	60,000								3.5 U	4.4 U	4.4 U	140	81
1,4-Dichlorobenzene	7,500	7,500	7,500								3.5 U	4.4 U	4.4 U	990	120
2-Butanone	200,000	200,000	200,000								35 U	44 U	44 U	43 U	39 U
4-Methyl-2-pentanone	200,000	200,000	200,000								7 U	8.8 U	8.8 U	11	11
Acetone	400,000	400,000	400,000	80 U	340	990	24000	50 U	2500 U	350	70 U	88 U	88 U	170	240
Chlorobenzene	10,000	10,000	10,000	8 U	6.5 U	8.6 U	5 U	5 U	5 U	5 U	3.5 U	4.4 U	4.4 U	4.3 U	3.9 U
cis-1,2-Dichloroethene	7,000	7,000	7,000	9	6.5 U	8.6 U	5 U	5 U	16	5 U	68	8.2	280	57	140
Ethylbenzene	70,000	70,000	70,000	8 U	6.5 U	8.6 U	5 U	5 U	5 U	5 U	3.5 U	4.4 U	4.4 U	4.3 U	3.9 U
Isopropylbenzene	21,900	85,500	85,500								3.5 U	4.4 U	4.4 U	4.7	3.9 U
Methylene chloride	500	2,800	2,800	16 U	13 U	17 U	10 U	10 U	10 U	10 U	14 U	18 U	18 U	17 U	16 U
Tetrachloroethene (PCE)	500	500	500	25	180	220	5.5	5 U	250 U	5 U	27	4.4 U	92	5.7	2000
Toluene	100,000	100,000	100,000	8 U	6.5 U	8.6 U	5 U	5 U	5 U	5 U	3.5 U	4.4 U	4.4 U	4.3 U	3.9 U
trans-1,2-Dichloroethene	10,000	10,000	10,000								3.5 U	4.4 U	4.4 U	5.1	3.9 U
Trichloroethene (TCE)	500	500	500	8 U	6.5 U	8.6 U	5 U	5 U	20	5 U	19	4.4 U	84	5.6	430
Vinyl Chloride	200	200	200	8 U	6.5 U	8.6 U	5 U	5 U	5 U	5 U	7 U	8.8 U	8.8 U	38	7.8 U
Xylene (total)	1,000,000	1,000,000	1,000,000	24 U	20 U	26 U	15 U	15 U	15 U	15 U	3.5 U	4.4 U	4.4 U	4.3 U	3.9 U
Semivolatiles- ug/kg															
Benzo(a)anthracene	5,000	10,100	10,100								420 U	420 U	470 U	430 U	410 U
Benzo(b)fluoranthene	5,000	5,000	5,000								420 U	420 U	470 U	430 U	410 U
Chrysene	5,000	152,000	152,000								420 U	420 U	470 U	430 U	410 U
Fluoranthene	500,000	9,084,000	9,084,000								420 U	420 U	470 U	430 U	410 U
Fluorene	360,000	1,514,000	1,514,000								420 U	420 U	470 U	1400	410 U
Naphthalene	100,000	100,000	100,000	330 U	330 U	330 U	330 U	330 U	330 U	330 U	420 U	420 U	470 U	620	880
Phenanthrene	110,000	110,000	100,000,000	330 U	330 U	330 U	330 U	330 U	330 U	330 U	420 U	420 U	470 U	1700	1000
Phenol	400,000	400,000	400,000								420 U	420 U	470 U	430 U	3200
Pyrene	500,000	6,677,000	6,677,000								420 U	420 U	470 U	430 U	410 U

Notes:

Only those compounds detected in one or more samples are shown.

Only those samples collected in 2013 or 2014 are shown, along with older samples relevant to the 2014 remediation/delineation.

U Analyte undetected at reporting limit shown

Denotes sample location was remediated by excavation and off-site disposal.

Denotes sample was collected at or beneath the groundwater table and thus not subject to removal.

Table 4
Summary of Soil Analytical Data - Wastewater Sewer Area

	Location	Type 1 RRS	Non-Residential RRS		B-22-03	B-22-03	WCB-12	WCB-12	WCB-12	WCB-13	WCB-13	WCB-13	WCB-13	WCB-14	WCB-14	WCB-14	WCB-14	WCB-15
	Depth (feet bgs)		SS Soil (0-2')	SB Soil (>2')	9-10'	14-15'	1-2'	14-15'	17-18'	1-2'	2-4'	8-10'	15-17'	1-2'	2-4'	12-13'	15-16'	1-2'
	Date Sampled		RRS	RRS	2/5/13	2/5/13	2/5/13	2/5/13	2/5/13	2/5/13	2/5/13	2/5/13	2/5/13	2/6/13	2/6/13	2/6/13	2/6/13	2/6/13
Volatiles-ug/kg																		
1,1,1-Trichloroethane		20,000	253,000	253,000	4.7 U	25	7.4	3.8 U	18	5.4 U	54	6.5	30	89	500	17	310	35
1,1-Dichloroethane		400,000	400,000	400,000	4.7 U	44	4.7	3.8 U	29	5.4 U	19	13	59	33	80	19	110	99
1,1-Dichloroethene		700	700	700	4.7 U	5 U	3.9 U	3.8 U	6	5.4 U	9.2	4.1 U	5.5	11	41	4.2 U	35	4.3 U
1,2,4-Trichlorobenzene		10,800	10,800	10,800	4.7 U	5 U	3.9 U	3.8 U	3.8 U	8.7	3.9 U	4.1 U	4.3 U	3.6 U	3.8 U	4.2 U	4.1 U	4.3 U
1,2-Dichlorobenzene		60,000	60,000	60,000	4.7 U	8	3.9 U	3.8 U	3.8 U	51	5.1	4.1 U	4.4	3.6 U	3.8 U	4.2 U	4.5	6.6
1,2-Dichloroethane		500	500	500	4.7 U	5 U	3.9 U	3.8 U	3.8 U	5.4 U	3.9 U	4.1 U	4.3 U	3.6 U	3.8 U	4.2 U	4.1 U	4.3 U
1,2-Dichloropropane		500	500	500	4.7 U	8.5	3.9 U	3.8 U	3.8 U	5.4 U	3.9 U	4.1 U	11	3.8	6.8	4.2 U	7.6	18
1,3-Dichlorobenzene		60,000	60,000	60,000	4.7 U	5 U	3.9 U	3.8 U	3.8 U	5.4 U	10	4.1 U	4.3 U	3.6 U	3.8 U	4.2 U	4.1 U	4.3 U
1,4-Dichlorobenzene		7,500	7,500	7,500	4.7 U	5 U	3.9 U	3.8 U	3.8 U	5.4 U	12	4.1 U	4.3 U	3.6 U	3.8 U	4.2 U	4.1 U	4.3 U
2-Butanone		200,000	200,000	200,000	47 U	50 U	39 U	38 U	38 U	54 U	39 U	41 U	43 U	36 U	38 U	44	41 U	43 U
4-Methyl-2-pentanone		200,000	200,000	200,000	9.4 U	10 U	7.9 U	7.7 U	7.6 U	11 U	7.8 U	8.1 U	8.5 U	7.3 U	7.7 U	8.3 U	8.2 U	8.7 U
Acetone		400,000	400,000	400,000	2100	150	79 U	77 U	76 U	260	78 U	81 U	85 U	73 U	77 U	210	160	87 U
Chlorobenzene		10,000	10,000	10,000	4.7 U	5 U	3.9 U	3.8 U	3.8 U	5.4 U	3.9 U	4.1 U	4.3 U	3.6 U	3.8 U	4.2 U	4.1 U	4.3 U
cis-1,2-Dichloroethene		7,000	7,000	7,000	22	150	16	22	570 H	58	560	72	270	430	580	120	910	110
Ethylbenzene		70,000	70,000	70,000	4.7 U	5 U	3.9 U	3.8 U	3.8 U	5.4 U	3.9 U	4.1 U	4.3 U	3.6 U	3.8 U	4.2 U	4.1 U	4.3 U
Isopropylbenzene		21,900	85,500	85,500	4.7 U	5 U	3.9 U	3.8 U	3.8 U	5.4 U	3.9 U	4.1 U	4.3 U	3.6 U	3.8 U	4.2 U	4.1 U	4.3 U
Methylene chloride		500	2,800	2,800	19 U	20 U	16 U	15 U	15 U	22 U	16 U	16 U	17 U	15 U	15 U	17 U	60	17 U
Tetrachloroethene (PCE)		500	500	500	4.7 U	57	51	5.4	69	60	2100	18	140	890	3100	29	460	170
Toluene		100,000	100,000	100,000	4.7 U	5 U	3.9 U	3.8 U	3.8 U	5.4 U	3.9 U	4.1 U	4.3 U	3.6 U	3.8 U	4.2 U	4.1 U	4.3 U
trans-1,2-Dichloroethene		10,000	10,000	10,000	4.7 U	5 U	3.9 U	3.8 U	3.8 U	5.4 U	3.9 U	4.1 U	4.3 U	3.6 U	4.4	4.2 U	4.1	4.3 U
Trichloroethene (TCE)		500	500	500	4.7 U	56	15	4.1	79	19	970	21	110	360	710	23	370	75
Vinyl Chloride		200	200	200	9.4 U	10 U	7.9 U	7.7 U	7.6 U	11 U	7.8 U	8.1 U	8.5 U	7.3 U	7.7 U	8.3 U	8.2 U	8.7 U
Xylene (total)		1,000,000	1,000,000	1,000,000	4.7 U	5 U	3.9 U	3.8 U	3.8 U	5.4 U	3.9 U	4.1 U	4.3 U	4.5	7.3	4.2 U	4.1 U	4.3 U
Semivolatiles- ug/kg																		
Benzo(a)anthracene		5,000	10,100	10,100	440 U	450 U				510	420 U	430 U	480 U	390 U	390 U	420 U		430 U
Benzo(b)fluoranthene		5,000	5,000	5,000	440 U	450 U				520	420 U	430 U	480 U	390 U	390 U	420 U		430 U
Chrysene		5,000	152,000	152,000	440 U	450 U				520	420 U	430 U	480 U	390 U	390 U	420 U		430 U
Fluoranthene		500,000	9,084,000	9,084,000	440 U	450 U				1300	420 U	430 U	480 U	390 U	390 U	420 U		430 U
Fluorene		360,000	1,514,000	1,514,000	440 U	450 U				430 U	420 U	430 U	480 U	390 U	390 U	420 U		430 U
Naphthalene		100,000	100,000	100,000	440 U	450 U				430 U	420 U	430 U	480 U	390 U	390 U	420 U		430 U
Phenanthrene		110,000	110,000	100,000,000	440 U	450 U				650	420 U	430 U	480 U	390 U	390 U	420 U		430 U
Phenol		400,000	400,000	400,000	440 U	450 U				430 U	420 U	430 U	480 U	390 U	390 U	420 U		430 U
Pyrene		500,000	6,677,000	6,677,000	440 U	450 U				820	420 U	430 U	480 U	390 U	390 U	420 U		430 U

Table 4
Summary of Soil Analytical Data - Wastewater Sewer Area

	Location	Type 1 RRS	Non-Residential RRS		WCB-15	WCB-15	WCB-15	WCB-45	WCB-45	WCB-46	WCB-46	WCV-73	WCV-73	WCV-74	WCV-74	WCV-75	WCV-75	WCV-76
	Depth (feet bgs)		SS Soil (0-2')	SB Soil (>2')	2-4'	9-10'	14-15'	2-4'	4-6'	2-4'	4-6'	2-4'	6-8'	2-4'	6-7'	2-4'	6-8'	2-4'
	Date Sampled		RRS	RRS	2/6/13	2/6/13	2/6/13	9/11/13	9/11/13	9/6/13	9/6/13	9/6/13	9/6/13	9/6/13	9/6/13	9/6/13	9/6/13	9/6/13
Volatiles-ug/kg																		
1,1,1-Trichloroethane		20,000	253,000	253,000	19	4.7 U	94	5.8	3.5 U	3.4 U	3.6 U	91	4.4 U	3.5 U	4.6 U	3.5 U	7.5	7000
1,1-Dichloroethane		400,000	400,000	400,000	60	6.5	140	7.3	3.5 U	3.4 U	3.6 U	4.9 U	4.4 U	3.5 U	9.9	3.5 U	4.2 U	1700
1,1-Dichloroethene		700	700	700	3.8 U	4.7 U	15	3.5	3.5 U	3.4 U	3.6 U	4.9 U	4.4 U	3.5 U	4.6 U	3.5 U	4.2 U	380
1,2,4-Trichlorobenzene		10,800	10,800	10,800	3.8 U	4.7 U	4.8 U	3.3 U	3.5 U	3.4 U	3.6 U	4.9 U	4.4 U	3.5 U	26	8.3	4.8	1000
1,2-Dichlorobenzene		60,000	60,000	60,000	3.8 U	4.7 U	7.9	3.3 U	3.5 U	3.4 U	3.6 U	4.9 U	4.4 U	3.5 U	10	3.5 U	4.2 U	20000
1,2-Dichloroethane		500	500	500	3.8 U	4.7 U	4.8 U	3.3 U	3.5 U	3.4 U	3.6 U	4.9 U	4.4 U	3.5 U	4.6 U	3.5 U	4.2 U	360 U
1,2-Dichloropropane		500	500	500	13	4.7 U	26	3.3 U	3.5 U	3.4 U	3.6 U	4.9 U	4.4 U	3.5 U	4.6 U	3.5 U	4.2 U	360 U
1,3-Dichlorobenzene		60,000	60,000	60,000	3.8 U	4.7 U	10	3.3 U	3.5 U	3.4 U	3.6 U	11	450	3.5 U	4.6 U	3.5 U	4.2 U	2300
1,4-Dichlorobenzene		7,500	7,500	7,500	3.8 U	4.7 U	8	3.3 U	3.5 U	3.4 U	3.6 U	11	100	3.5 U	4.6 U	3.5 U	4.2 U	2600
2-Butanone		200,000	200,000	200,000	38 U	47 U	48 U	33 U	35 U	34 U	36 U	49 U	50	35 U	46 U	35 U	42 U	3600 U
4-Methyl-2-pentanone		200,000	200,000	200,000	7.6 U	9.4 U	9.6 U	6.7 U	7.0 U	6.7 U	7.1 U	9.8 U	8.8 U	7.1 U	9.1 U	6.9 U	8.4 U	720 U
Acetone		400,000	400,000	400,000	76 U	94 U	140	67 U	70 U	67 U	71 U	98 U	440	71 U	91 U	69 U	84 U	7200 U
Chlorobenzene		10,000	10,000	10,000	3.8 U	4.7 U	4.8 U	3.3 U	3.5 U	3.4 U	3.6 U	4.9 U	4.4 U	3.5 U	4.6 U	3.5 U	4.2 U	360 U
cis-1,2-Dichloroethene		7,000	7,000	7,000	230	34	710	12	7.4	3.4 U	3.6 U	21	380	15	38	3.5 U	4.2 U	13000
Ethylbenzene		70,000	70,000	70,000	3.8 U	4.7 U	4.8 U	3.3 U	3.5 U	3.4 U	3.6 U	4.9 U	13	3.5 U	4.6 U	3.5 U	4.2 U	360 U
Isopropylbenzene		21,900	85,500	85,500	3.8 U	4.7 U	4.8 U	3.3 U	3.5 U	3.4 U	3.6 U	4.9 U	4.7	3.5 U	4.6 U	3.5 U	4.2 U	360 U
Methylene chloride		500	2,800	2,800	15 U	19 U	19 U	13 U	14 U	13 U	14 U	20 U	18 U	14 U	18 U	14 U	17 U	1400 U
Tetrachloroethene (PCE)		500	500	500	44	5.9	730	18	4.5	7.3	3.6 U	1400	12	11	19	4.3	6.7	26000
Toluene		100,000	100,000	100,000	3.8 U	4.7 U	4.8 U	3.3 U	3.5 U	3.4 U	3.6 U	4.9 U	4.8	3.5 U	4.6 U	3.5 U	4.2 U	360 U
trans-1,2-Dichloroethene		10,000	10,000	10,000	3.8 U	4.7 U	5.3	3.3 U	3.5 U	3.4 U	3.6 U	4.9 U	4.5	3.5 U	4.6 U	3.5 U	4.2 U	360 U
Trichloroethene (TCE)		500	500	500	30	4.7 U	160	13	4.3	4.3	3.6 U	89	100	4.8	10	23	87	25000
Vinyl Chloride		200	200	200	7.6 U	9.4 U	9.6 U	6.7 U	7.0 U	6.7 U	7.1 U	9.8 U	8.8 U	7.1 U	9.1 U	6.9 U	8.4 U	720 U
Xylene (total)		1,000,000	1,000,000	1,000,000	3.8 U	4.7 U	4.8 U	3.3 U	3.5 U	3.4 U	3.6 U	4.9 U	63	3.5 U	4.6 U	3.5 U	4.2 U	2300
Semivolatiles- ug/kg																		
Benzo(a)anthracene		5,000	10,100	10,100	420 U	410 U	470 U											
Benzo(b)fluoranthene		5,000	5,000	5,000	420 U	410 U	470 U											
Chrysene		5,000	152,000	152,000	420 U	410 U	470 U											
Fluoranthene		500,000	9,084,000	9,084,000	420 U	410 U	470 U											
Fluorene		360,000	1,514,000	1,514,000	420 U	410 U	470 U											
Naphthalene		100,000	100,000	100,000	420 U	410 U	470 U											
Phenanthrene		110,000	110,000	100,000,000	420 U	410 U	470 U											
Phenol		400,000	400,000	400,000	420 U	410 U	470 U											
Pyrene		500,000	6,677,000	6,677,000	420 U	410 U	470 U											

Table 4
Summary of Soil Analytical Data - Wastewater Sewer Area

	Location	Type 1 RRS	Non-Residential RRS		WCV-76	WCV-77	WCV-77	WCV-78	WCV-78	WCV-79	WCV-79	WCB-90	WCB-90	WCB-91	WCB-91	WCB-92	WCB-93	WCB-93
	Depth (feet bgs)		SS Soil (0-2')	SB Soil (>2')	6-8'	2-4'	6-8'	2-4'	6-8'	2-4'	6-8'	4-6'	6-8'	4-6'	6-8'	8-10'	0-2'	3-5'
	Date Sampled		RRS	RRS	9/6/13	9/6/13	9/6/13	9/6/13	9/6/13	9/6/13	9/6/13	4/9/14	4/9/14	4/9/14	4/9/14	4/9/14	4/9/14	4/9/14
Volatiles-ug/kg																		
1,1,1-Trichloroethane		20,000	253,000	253,000	28000	360 U	3.7 U	21	17	3.7 U	9.3	3.8 U	6	64	54	24000	4.3	220
1,1-Dichloroethane		400,000	400,000	400,000	730	360 U	3.7 U	3.9	3.6	3.7 U	4.1 U	6.2	12	92	74	860	3.2 U	24
1,1-Dichloroethene		700	700	700	810	360 U	3.7 U	6.8	3.6 U	3.7 U	4.1 U	3.8 U	3.9 U	21	21	280	3.2 U	30
1,2,4-Trichlorobenzene		10,800	10,800	10,800	3700	360 U	3.7 U	3.2 U	3.6 U	3.7 U	4.1 U	3.8 U	3.9 U	3.6 U	3.9 U	1400	8.3	3.3 U
1,2-Dichlorobenzene		60,000	60,000	60,000	1500	360 U	3.7 U	3.2 U	3.6 U	3.7 U	4.1 U	3.8 U	3.9 U	5.5	4.2	56000	26	3.3 U
1,2-Dichloroethane		500	500	500	4.3	360 U	3.7 U	3.2 U	3.6 U	3.7 U	4.1 U	3.8 U	3.9 U	3.6 U	3.9 U	220 U	3.2 U	3.3 U
1,2-Dichloropropane		500	500	500	3.8 U	360 U	3.7 U	3.2 U	3.6 U	3.7 U	4.1 U	3.8 U	3.9 U	12	9.7	220 U	3.2 U	3.3 U
1,3-Dichlorobenzene		60,000	60,000	60,000	3000	360 U	3.7 U	3.2 U	3.6 U	3.7 U	4.1 U	3.8 U	3.9 U	3.6 U	3.9 U	2900	3.2 U	3.3 U
1,4-Dichlorobenzene		7,500	7,500	7,500	3200	360 U	3.7 U	3.2 U	3.6 U	3.7 U	4.1 U	3.8 U	3.9 U	3.6 U	3.9 U	4900	3.8	3.3 U
2-Butanone		200,000	200,000	200,000	38 U	3600 U	37 U	32 U	36 U	37 U	41 U	38 U	39 U	36 U	39 U	2200 U	32 U	33 U
4-Methyl-2-pentanone		200,000	200,000	200,000	7.7 U	710 U	7.4 U	6.5 U	7.3 U	7.4 U	8.1 U	7.6 U	7.7 U	7.3 U	7.8 U	430 U	6.5 U	6.6 U
Acetone		400,000	400,000	400,000	270	7100 U	130	65 U	73 U	74 U	81 U	76 U	77 U	73 U	78 U	4300 U	65 U	66 U
Chlorobenzene		10,000	10,000	10,000	4.9	360 U	3.7 U	3.2 U	3.6 U	3.7 U	4.1 U	3.8 U	3.9 U	3.6 U	3.9 U	220 U	3.2 U	3.3 U
cis-1,2-Dichloroethene		7,000	7,000	7,000	2300	360 U	6	4.7	8.6	3.7 U	4.1 U	32	62	380	220	740	9.5	220
Ethylbenzene		70,000	70,000	70,000	78	360 U	3.7 U	3.2 U	3.6 U	3.7 U	4.1 U	3.8 U	3.9 U	3.6 U	3.9 U	220 U	3.2 U	3.3 U
Isopropylbenzene		21,900	85,500	85,500	24	360 U	3.7 U	3.2 U	3.6 U	3.7 U	4.1 U	3.8 U	3.9 U	3.6 U	3.9 U	220 U	3.2 U	3.3 U
Methylene chloride		500	2,800	2,800	600	1400 U	15 U	13 U	15 U	15 U	16 U	15 U	15 U	15 U	16 U	1900	13 U	13 U
Tetrachloroethene (PCE)		500	500	500	110,000	21000	21	26	11	3.9	6.5	13	28	110	100	80000	2900	2100
Toluene		100,000	100,000	100,000	68	360 U	3.7 U	3.2 U	3.6 U	3.7 U	4.1 U	3.8 U	3.9 U	3.6 U	3.9 U	220 U	3.2 U	3.3 U
trans-1,2-Dichloroethene		10,000	10,000	10,000	9.7	360 U	3.7 U	3.2 U	3.6 U	3.7 U	4.1 U	3.8 U	3.9 U	3.6 U	3.9 U	220 U	3.2 U	3.3 U
Trichloroethene (TCE)		500	500	500	12000	360 U	3.7 U	11	4.6	3.7 U	4.3	12	26	110	93	3200	15	110
Vinyl Chloride		200	200	200	7.7 U	710 U	7.4 U	6.5 U	7.3 U	7.4 U	8.1 U	7.6 U	7.7 U	7.3 U	7.8 U	430 U	6.5 U	6.6 U
Xylene (total)		1,000,000	1,000,000	1,000,000	370	360 U	3.7 U	3.2 U	3.6 U	3.7 U	4.1 U	3.8 U	3.9 U	3.6 U	3.9 U	470	7.5	3.3 U
Semivolatiles- ug/kg																		
Benzo(a)anthracene		5,000	10,100	10,100														
Benzo(b)fluoranthene		5,000	5,000	5,000														
Chrysene		5,000	152,000	152,000														
Fluoranthene		500,000	9,084,000	9,084,000														
Fluorene		360,000	1,514,000	1,514,000														
Naphthalene		100,000	100,000	100,000														
Phenanthrene		110,000	110,000	100,000,000														
Phenol		400,000	400,000	400,000														
Pyrene		500,000	6,677,000	6,677,000														

Table 4
Summary of Soil Analytical Data - Wastewater Sewer Area

	Location	Type 1 RRS	Non-Residential RRS		WCB-94	WCB-94	WCB-95	WCB-95	WCB-96	WCB-96	WCB-97	WCB-97	WCB-97	WCB-113	WCB-113	WCB-113	WCB-114	WCB-114
	Depth (feet bgs)		SS Soil (0-2')	SB Soil (>2')	2-4'	5-7'	0-2'	3-5'	2-4'	5-7'	0-2	2-4'	5-7'	0-2'	3-5'	7-9'	0-2'	3-5'
	Date Sampled		RRS	RRS	4/9/14	4/9/14	4/9/14	4/9/14	4/9/14	4/9/14	4/9/14	4/9/14	4/9/14	5/19/14	5/19/14	5/19/14	5/19/14	5/19/14
Volatiles-ug/kg																		
1,1,1-Trichloroethane		20,000	253,000	253,000	150	13	32	84	3.4 U	4 U	3.9 U	4.6 U	4 U	3.9 U	3.9 U	11	11	36
1,1-Dichloroethane		400,000	400,000	400,000	17	4.3 U	5.5	15	3.4 U	4 U	3.9 U	4.6 U	4 U	3.9 U	3.9 U	13	3.1 U	7.7
1,1-Dichloroethene		700	700	700	38	4.3 U	13	16	3.4 U	4 U	3.9 U	4.6 U	4 U	3.9 U	5	4.5	5.5	14
1,2,4-Trichlorobenzene		10,800	10,800	10,800	3.9 U	4.3 U	4.1 U	3.7 U	23	21	34	35	99	4.6	3.9 U	20	3.1 U	3.4 U
1,2-Dichlorobenzene		60,000	60,000	60,000	3.9 U	4.3 U	4.1 U	3.7 U	40	1300	3.9 U	4.6 U	8.1	12	3.9 U	6.4	3.1 U	3.4 U
1,2-Dichloroethane		500	500	500	3.9 U	4.3 U	4.1 U	3.7 U	3.4 U	4 U	3.9 U	4.6 U	4 U	3.9 U	3.9 U	3.8 U	3.1 U	3.4 U
1,2-Dichloropropane		500	500	500	3.9 U	4.3 U	4.1 U	3.7 U	3.4 U	4 U	3.9 U	4.6 U	4 U	3.9 U	3.9 U	3.8 U	3.1 U	3.4 U
1,3-Dichlorobenzene		60,000	60,000	60,000	3.9 U	4.3 U	4.1 U	3.7 U	14	66	3.9 U	4.6 U	6.9	3.9 U	3.9 U	11	3.1 U	3.4 U
1,4-Dichlorobenzene		7,500	7,500	7,500	3.9 U	4.3 U	4.1 U	3.7 U	10	53	3.9 U	4.6 U	5.6	3.9 U	3.9 U	5	3.1 U	3.4 U
2-Butanone		200,000	200,000	200,000	39 U	43 U	41 U	37 U	41	40 U	41	82	40 U	39 U	39 U	38 U	31 U	34 U
4-Methyl-2-pentanone		200,000	200,000	200,000	7.8 U	8.6 U	8.2 U	7.4 U	6.8 U	8.1 U	7.8 U	9.2 U	8 U	7.8 U	7.8 U	7.5 U	6.3 U	6.7 U
Acetone		400,000	400,000	400,000	78 U	99	82 U	74 U	4200	2400	160	380	150	78 U	78 U	75 U	63 U	67 U
Chlorobenzene		10,000	10,000	10,000	3.9 U	4.3 U	4.1 U	3.7 U	3.4 U	4 U	3.9 U	4.6 U	4 U	3.9 U	3.9 U	3.8 U	3.1 U	3.4 U
cis-1,2-Dichloroethene		7,000	7,000	7,000	130	24	38	75	52	140	3.9 U	4.6 U	5.7	3.9 U	25	46	13	65
Ethylbenzene		70,000	70,000	70,000	3.9 U	4.3 U	4.1 U	3.7 U	3.4 U	28	3.9 U	4.6 U	4 U	3.9 U	3.9 U	3.8 U	3.1 U	3.4 U
Isopropylbenzene		21,900	85,500	85,500	3.9 U	4.3 U	4.1 U	3.7 U	3.4 U	6.4	3.9 U	4.6 U	4 U	3.9 U	3.9 U	3.8 U	3.1 U	3.4 U
Methylene chloride		500	2,800	2,800	16 U	17 U	16 U	15 U	14 U	16 U	16 U	18 U	16 U	16 U	16 U	15 U	13 U	13 U
Tetrachloroethene (PCE)		500	500	500	2900	97	700	1000	51	1500	7.8	15	71	10	6.8	54	620	650
Toluene		100,000	100,000	100,000	3.9 U	4.3 U	4.1 U	3.7 U	6.7	8.2	3.9 U	4.6 U	4 U	3.9 U	3.9 U	3.8 U	3.1 U	3.4 U
trans-1,2-Dichloroethene		10,000	10,000	10,000	3.9 U	4.3 U	4.1 U	3.7 U	3.4 U	4 U	3.9 U	4.6 U	4 U	3.9 U	3.9 U	3.8 U	3.1 U	3.4 U
Trichloroethene (TCE)		500	500	500	96	9.9	31	43	17	480	3.9 U	4.6 U	18	3.9 U	4.7	22	37	63
Vinyl Chloride		200	200	200	7.8 U	8.6 U	8.2 U	7.4 U	6.8 U	16	7.8 U	9.2 U	8 U	7.8 U	7.8 U	7.5 U	6.3 U	6.7 U
Xylene (total)		1,000,000	1,000,000	1,000,000	3.9 U	4.3 U	4.1 U	3.7 U	15	160	3.9 U	4.6 U	4 U	3.9 U	3.9 U	3.8 U	3.1 U	3.4 U
Semivolatiles- ug/kg																		
Benzo(a)anthracene		5,000	10,100	10,100														
Benzo(b)fluoranthene		5,000	5,000	5,000														
Chrysene		5,000	152,000	152,000														
Fluoranthene		500,000	9,084,000	9,084,000														
Fluorene		360,000	1,514,000	1,514,000														
Naphthalene		100,000	100,000	100,000														
Phenanthrene		110,000	110,000	100,000,000														
Phenol		400,000	400,000	400,000														
Pyrene		500,000	6,677,000	6,677,000														

Table 4
Summary of Soil Analytical Data - Wastewater Sewer Area

Location	Type 1 RRS	Non-Residential RRS		WCB-114	WCB-115	WCB-115	WCB-115	WCB-116	WCB-116	WCB-116	WCB-117	WCB-117	WCB-117	WCTX-44	WCTX-45	WCTX-32	WCTX-32
Depth (feet bgs)		SS Soil (0-2')	SB Soil (>2')	5-7'	0-2'	3-5'	5-7'	0-2'	3-5'	6-8	0-2'	3-5'	6-8	0-2'	0-2'	0-2'	3-5'
Date Sampled		RRS	RRS	5/19/14	5/19/14	5/19/14	5/19/14	5/19/14	5/19/14	5/19/14	5/19/14	5/19/14	5/19/14	7/30/14	7/30/14	8/11/14	8/11/14
Volatiles-ug/kg																	
1,1,1-Trichloroethane	20,000	253,000	253,000	10	3.8 U	7.3	5.3	3.8 U	5.2 U	3.8 U	32	3.5 U	3.4 U	4.8 U	3.6 U	4.1 U	4.4 U
1,1-Dichloroethane	400,000	400,000	400,000	3.3 U	3.8 U	6.9	5.9	3.8 U	5.2 U	3.8 U	3.4 U	3.5 U	3.4 U	4.8 U	3.6 U	4.1 U	4.4 U
1,1-Dichloroethene	700	700	700	3.7	3.8 U	4.2	4.3 U	3.8 U	5.2 U	3.8 U	3.4 U	3.5 U	3.4 U	4.8 U	3.6 U	4.1 U	4.4 U
1,2,4-Trichlorobenzene	10,800	10,800	10,800	3.3 U	3.8 U	3.4 U	4.3 U	3.8 U	5.2 U	3.8 U	1100	29	15	39	18	4.1 U	4.4 U
1,2-Dichlorobenzene	60,000	60,000	60,000	3.3 U	8	3.4 U	4.3 U	3.8 U	5.2 U	3.8 U	990	78	79	130	16	5.1	4.4 U
1,2-Dichloroethane	500	500	500	3.3 U	3.8 U	3.4 U	4.3 U	3.8 U	5.2 U	3.8 U	3.4 U	3.5 U	3.4 U	4.8 U	3.6 U	4.1 U	4.4 U
1,2-Dichloropropane	500	500	500	3.3 U	3.8 U	3.4 U	4.3 U	3.8 U	5.2 U	3.8 U	3.5	3.5 U	3.4 U	4.8 U	3.6 U	4.1 U	4.4 U
1,3-Dichlorobenzene	60,000	60,000	60,000	3.3 U	3.8 U	3.4 U	4.3 U	3.8 U	5.2 U	3.8 U	110	12	18	7.7	3.6 U	4.1 U	4.4 U
1,4-Dichlorobenzene	7,500	7,500	7,500	3.3 U	3.8 U	3.4 U	4.3 U	3.8 U	5.2 U	3.8 U	120	14	15	10	3.6 U	4.1 U	4.4 U
2-Butanone	200,000	200,000	200,000	33 U	38 U	34 U	43 U	38 U	52 U	38 U	34 U	35 U	34 U	48 U	36 U	41 U	44 U
4-Methyl-2-pentanone	200,000	200,000	200,000	6.5 U	7.6 U	6.8 U	8.7 U	7.6 U	10 U	7.6 U	7.3	7 U	6.7 U	9.5 U	7.2 U	8.1 U	8.7 U
Acetone	400,000	400,000	400,000	65 U	76 U	68 U	87 U	76 U	100 U	76 U	930	1700	1800	210	72 U	81 U	87 U
Chlorobenzene	10,000	10,000	10,000	3.3 U	3.8 U	3.4 U	4.3 U	3.8 U	5.2 U	3.8 U	3.4 U	3.5 U	3.4 U	4.8 U	3.6 U	4.1 U	4.4 U
cis-1,2-Dichloroethene	7,000	7,000	7,000	36	79	180	130	29	30	110	40	4.9	69	4.8 U	3.6 U	4.1 U	9.6
Ethylbenzene	70,000	70,000	70,000	3.3 U	3.8 U	3.4 U	4.3 U	3.8 U	5.2 U	3.8 U	36	3.5 U	5.4	4.8 U	3.6 U	4.1 U	4.4 U
Isopropylbenzene	21,900	85,500	85,500	3.3 U	3.8 U	3.4 U	4.3 U	3.8 U	5.2 U	3.8 U	23	3.5 U	3.4 U	4.8 U	3.6 U	4.1 U	4.4 U
Methylene chloride	500	2,800	2,800	13 U	15 U	14 U	13 U	15 U	21 U	15 U	14 U	14 U	14 U	19 U	14 U	16 U	17 U
Tetrachloroethene (PCE)	500	500	500	120	150	94	60	12	6.3	12	490	120	48	37	13	46	39
Toluene	100,000	100,000	100,000	3.3 U	3.8 U	3.4 U	4.3 U	3.8 U	5.2 U	3.8 U	12	3.5 U	3.4 U	4.8 U	3.6 U	4.1 U	4.4 U
trans-1,2-Dichloroethene	10,000	10,000	10,000	3.3 U	3.8 U	3.4 U	4.3 U	3.8 U	5.2 U	3.8 U	3.4 U	3.5 U	3.4 U	4.8 U	3.6 U	4.1 U	4.4 U
Trichloroethene (TCE)	500	500	500	24	30	23	17	13	7.1	14	620	26	220	4.8 U	3.6 U	4.1 U	7
Vinyl Chloride	200	200	200	7.5 U	7.6 U	6.8 U	7.5 U	7.6 U	10 U	7.6 U	6.9 U	7 U	6.7 U	9.5 U	7.2 U	8.1 U	8.7 U
Xylene (total)	1,000,000	1,000,000	1,000,000	3.3 U	3.8 U	3.4 U	4.3 U	3.8 U	5.2 U	3.8 U	180	17	32	4.8 U	3.6 U	4.1 U	4.4 U
Semivolatiles- ug/kg																	
Benzo(a)anthracene	5,000	10,100	10,100														
Benzo(b)fluoranthene	5,000	5,000	5,000														
Chrysene	5,000	152,000	152,000														
Fluoranthene	500,000	9,084,000	9,084,000														
Fluorene	360,000	1,514,000	1,514,000														
Naphthalene	100,000	100,000	100,000														
Phenanthrene	110,000	110,000	100,000,000														
Phenol	400,000	400,000	400,000														
Pyrene	500,000	6,677,000	6,677,000														

Table 5
Summary of Soil Analytical Data - Former Pump Room Area

Location	Type 1 RRS	Non-Residential RRS		B-17-03A	B-17-03B	B-17-03C	B-17-03D	B-5A	B-5B	B-5C	B-8A	B-8B	B-31B	B-31A	B-31C	B-5-02
Depth (feet bgs)		SS Soil (0-2')	SB Soil (>2')	2'-4'	4'-6'	8'-10'	12'-14'	3	5	9	3	5	5	3	9	0-2'
Date Sampled		RRS	RRS	1/30/03	1/30/03	1/30/03	1/30/03	3/20/03	3/20/03	3/20/03	3/20/03	3/20/03	3/20/03	3/20/03	3/20/03	2/5/13
Volatiles-ug/kg																
1,1,1-Trichloroethane	20,000	253,000	253,000	5 U	6.4 U	11 U	5.2 U									3.7 U
1,1-Dichloroethane	400,000	400,000	400,000	5 U	6.4 U	11 U	5.2 U									3.7 U
1,1-Dichloroethene	700	700	700	5 U	6.4 U	11 U	5.2 U	4.5 U	25 U	25 U	4 U	9.1 U	4.7 U	4.3 U	4.7 U	3.7 U
1,2,4-Trichlorobenzene	10,800	10,800	10,800	330 U	330 U	330 U	330 U	1700 U	9400	130,000	330 U	1700 U	330 U	330 U	330 U	7.6
1,2-Dichlorobenzene	60,000	60,000	60,000	330 U	330 U	330 U	330 U	1700 U	2300	46000	330 U	1700 U	330 U	330 U	330 U	5.2
1,2-Dichloroethane	500	500	500	5 U	6.4 U	11 U	5.2 U									3.7 U
1,3-Dichlorobenzene	60,000	60,000	60,000					1700 U	1700 U	3300 U	330 U	1700 U	330 U	330 U	330 U	5.7
1,4-Dichlorobenzene	7,500	7,500	7,500					1700 U	1700 U	5000	330 U	1700 U	330 U	330 U	330 U	27
2-Butanone	200,000	200,000	200,000													37 U
Acetone	400,000	400,000	400,000	50 U	64	110 U	52 U	45 U	250 U	250 U	50 U	91 U	47 U	43 U	77	75 U
Benzene	500	500	500	5 U	6.4 U	11 U	5.2 U	4.5 U	25 U	25 U	43	9.1 U	4.7 U	4.3 U	4.7 U	3.7 U
Chlorobenzene	10,000	10,000	10,000	5 U	6.4 U	11 U	5 U	27	6900	3600 E	50	9.1 U	4.7 U	4.3 U	4.7 U	5.3
cis-1,2-Dichloroethene	7,000	7,000	7,000	5 U	100	11 U	5 U						4.7 U	4.3 U	4.7 U	3.7 U
Ethylbenzene	70,000	70,000	70,000	5 U	6.4 U	11 U	5 U	4.5 U	390	340	5 U	9.1 U	4.7 U	4.3 U	4.7 U	3.7 U
Isopropylbenzene	21,900	85,500	85,500													3.7 U
Tetrachloroethene (PCE)	500	500	500	22	170	58	8.1	4.5 U	25 U	25 U	5 U	9.1 U	4.7 U	4.3 U	4.7 U	3.7 U
Toluene	100,000	100,000	100,000	5 U	6.4 U	11 U	5 U	4.5 U	25 U	56	51	9.1 U	4.7 U	4.3 U	4.7 U	3.7 U
trans-1,2-Dichloroethene	10,000	10,000	10,000													3.7 U
Trichloroethene (TCE)	500	500	500	4.6	52	11 U	5 U	4.5 U	25 U	25 U	39	9.1 U	4.7 U	4.3 U	4.7 U	3.7 U
Vinyl Chloride	200	200	200	5 U	6.4 U	11 U	5 U									7.5 U
Xylene (total)	1,000,000	1,000,000	1,000,000	15 U	19 U	34 U	16 U	14 U	2100	3800 E	15 U	27 U	14	13 U	14 U	3.7 U
Semivolatiles- ug/kg																
Acenaphthene	300,000	1,258,000	1,258,000					1700 U	1700 U	3300 U	330 U	1700 U	330 U	330 U	330 U	400 U
Anthracene	500,000	20,187,000	20,187,000													400 U
Fluoranthene	500,000	9,084,000	9,084,000													1000
Fluorene	360,000	1,514,000	1,514,000					1700 U	1700 U	3300 U	330 U	1700 U	330 U	330 U	330 U	400 U
Naphthalene	100,000	100,000	100,000	330 U	330 U	330 U	330 U	1700 U	12000	47000	330 U	1700 U	330 U	330 U	330 U	400 U
Phenanthrene	110,000	110,000	100,000,000	330 U	330 U	330 U	330 U									500
Pyrene	500,000	6,677,000	6,677,000													670

Notes:

Only those compounds detected in one or more samples are shown.

Only those samples collected in 2013 or 2014 are shown, along with older samples relevant to the 2014 remediation/delineation.

U Analyte undetected at reporting limit shown

Denotes sample location was remediated by excavation and off-site disposal.

Denotes sample was collected at or beneath the groundwater table and thus not subject to removal.

Table 5
Summary of Soil Analytical Data - Former Pump Room Area

Location	Type 1 RRS	Non-Residential RRS		B-5-02	B-5-02	B-5-02	B-8	B-8	B-8	B-8	B-10-02	B-10-02	B-10-02	WCB-5	WCB-5	WCB-5
Depth (feet bgs)		SS Soil (0-2')	SB Soil (>2')	2-4'	10-11'	16-17'	0-2'	2-4'	8-9'	12-13'	1-2'	7-8'	16-17'	0-2'	2-4'	8-9'
Date Sampled		RRS	RRS	2/5/13	2/5/13	2/5/13	2/5/13	2/5/13	2/5/13	2/5/13	2/5/13	2/5/13	2/5/13	2/5/13	2/5/13	2/5/13
Volatiles-ug/kg																
1,1,1-Trichloroethane	20,000	253,000	253,000	3.6 U	470 U	2100 U	4.3 U	4.4 U	4.1 U	4.4 U	340 U	470	2400 U	4.4 U	5.0 U	4.8 U
1,1-Dichloroethane	400,000	400,000	400,000	3.6 U	470 U	2100 U	4.3 U	4.4 U	4.1 U	4.4 U	340 U	400 U	2400 U	4.4 U	5.0 U	4.8 U
1,1-Dichloroethene	700	700	700	3.6 U	470 U	2100 U	4.3 U	4.4 U	4.1 U	4.4 U	340 U	400 U	2400 U	4.4 U	5.0 U	4.8 U
1,2,4-Trichlorobenzene	10,800	10,800	10,800	85	25000	260,000	4.3 U	4.4 U	4.1 U	4.4 U	22000	210,000	96000	4.4 U	5.0 U	4.8 U
1,2-Dichlorobenzene	60,000	60,000	60,000	110	7400	130,000	4.3 U	4.4 U	4.1 U	4.4 U	4800	99000	160,000	4.4 U	5.0 U	4.8 U
1,2-Dichloroethane	500	500	500	3.6 U	470 U	2100 U	4.3 U	4.4 U	4.1 U	4.4 U	340 U	400 U	2400 U	4.4 U	5.0 U	4.8 U
1,3-Dichlorobenzene	60,000	60,000	60,000	61	470 U	3000	4.3 U	4.4 U	4.1 U	4.4 U	340 U	4100	7000	4.4 U	5.0 U	4.8 U
1,4-Dichlorobenzene	7,500	7,500	7,500	4300	4100	7300	4.3 U	4.4 U	4.1 U	4.4 U	9700	15000	18000	4.4 U	5.0 U	4.8 U
2-Butanone	200,000	200,000	200,000	36 U	4700 U	21000 U	43 U	44 U	41 U	44 U	3400 U	4000 U	24000 U	44 U	50 U	48 U
Acetone	400,000	400,000	400,000	72 U	9400 U	43000 U	85 U	87 U	83 U	89 U	6800 U	7900 U	48000 U	89 U	99 U	95 U
Benzene	500	500	500	3.7	470 U	2100 U	4.3 U	4.4 U	4.1 U	4.4 U	340 U	400 U	2400 U	4.4 U	5.0 U	4.8 U
Chlorobenzene	10,000	10,000	10,000	2300	1400	2100 U	4.3 U	4.4 U	4.1 U	4.4 U	2700	3800	2400 U	4.4 U	5.0 U	4.8 U
cis-1,2-Dichloroethene	7,000	7,000	7,000	3.6 U	470 U	2100 U	4.3 U	4.4 U	4.1 U	5.5	1700	400 U	2400 U	4.4 U	5.0 U	4.8 U
Ethylbenzene	70,000	70,000	70,000	39	890	5500	4.3 U	4.4 U	4.1 U	4.4 U	670	3800	2400 U	4.4 U	5.0 U	4.8 U
Isopropylbenzene	21,900	85,500	85,500	23	600	3400	4.3 U	4.4 U	4.1 U	4.4 U	480	4200	2500	4.4 U	5.0 U	4.8 U
Tetrachloroethene (PCE)	500	500	500	3.6 U	470 U	2100 U	4.3 U	4.4 U	4.1 U	4.6	4700	2800	2400 U	4.4 U	5.0 U	4.8 U
Toluene	100,000	100,000	100,000	8.1	2300	95000	4.3 U	4.4 U	4.1 U	4.4 U	540	2100	49000	4.4 U	5.0 U	4.8 U
trans-1,2-Dichloroethene	10,000	10,000	10,000	3.6 U	470 U	2100 U	4.3 U	4.4 U	4.1 U	4.4 U	340 U	400 U	2400 U	4.4 U	5.0 U	4.8 U
Trichloroethene (TCE)	500	500	500	3.6 U	470 U	2100 U	4.3 U	4.4 U	4.1 U	4.4 U	340 U	400 U	2400 U	4.4 U	5.0 U	4.8 U
Vinyl Chloride	200	200	200	7.2 U	940 U	4300 U	8.5 U	8.7 U	8.3 U	8.9 U	680 U	790 U	4800 U	8.9 U	9.9 U	9.5 U
Xylene (total)	1,000,000	1,000,000	1,000,000	75	5500	32000	4.3 U	4.4 U	4.1 U	4.4 U	6200	28000	16000	4.4 U	5 U	4.8 U
Semivolatiles- ug/kg																
Acenaphthene	300,000	1,258,000	1,258,000	1300	5300	18000	410 U	410 U	430 U	450 U	700	3000	19000	420 U	420 U	400 U
Anthracene	500,000	20,187,000	20,187,000	380 U	4000 U	4400 U	410 U	410 U	430 U	450 U	390 U	420 U	4600 U	420 U	420 U	400 U
Fluoranthene	500,000	9,084,000	9,084,000	710	4000 U	4400 U	410 U	410 U	430 U	450 U	390 U	420 U	4600 U	420 U	420 U	400 U
Fluorene	360,000	1,514,000	1,514,000	1300	4000 U	8000	410 U	410 U	430 U	450 U	550	2500	9800	420 U	420 U	400 U
Naphthalene	100,000	100,000	100,000	17000	230,000	360,000	410 U	410 U	430 U	450 U	9700	60000	970,000	420 U	420 U	400 U
Phenanthrene	110,000	110,000	100,000,000	820	4000 U	4400 U	410 U	410 U	430 U	450 U	390 U	1100	5400	420 U	420 U	400 U
Pyrene	500,000	6,677,000	6,677,000	480	4000 U	4400 U	410 U	410 U	430 U	450 U	390 U	420 U	4600 U	420 U	420 U	400 U

Table 5
Summary of Soil Analytical Data - Former Pump Room Area

	Location	Type 1 RRS	Non-Residential RRS		WCB-5	WCB-6	WCB-6	WCB-6	WCB-6	WCB-7	WCB-7	WCB-7	WCB-8	WCB-8	WCB-8	WCB-9	WCB-9
	Depth (feet bgs)		SS Soil (0-2')	SB Soil (>2')	12-13'	0-2'	2-4'	9-10'	15'-16'	1-2'	5-6'	7-8'	4-5'	8-9'	12-13'	0-2'	2-4'
	Date Sampled		RRS	RRS	2/5/13	2/5/13	2/5/13	2/5/13	2/5/13	2/5/13	2/5/13	2/5/13	2/5/13	2/5/13	2/5/13	2/5/13	2/5/13
Volatiles-ug/kg																	
1,1,1-Trichloroethane		20,000	253,000	253,000	5.0 U	4.2 U	4.2 U	4.7 U	2100 U	4.9 U	5.1 U	4.4 U	3.8 U	220 U	2500 U	3.1 U	3.2 U
1,1-Dichloroethane		400,000	400,000	400,000	5.0 U	4.2 U	4.2 U	4.7 U	2100 U	4.9 U	5.1 U	4.4 U	6.4	220 U	2500 U	3.1 U	3.2 U
1,1-Dichloroethene		700	700	700	5.0 U	4.2 U	4.2 U	4.7 U	2100 U	4.9 U	5.1 U	4.4 U	3.8 U	220 U	2500 U	3.1 U	3.2 U
1,2,4-Trichlorobenzene		10,800	10,800	10,800	5.0 U	4.2 U	4.2 U	4.7 U	370,000	4.9 U	5.1 U	4.4 U	3.8 U	18000	34000	3.1 U	3.2 U
1,2-Dichlorobenzene		60,000	60,000	60,000	5.0 U	4.2 U	4.2 U	4.7 U	290,000	4.9 U	5.1 U	4.4 U	4.3	3100	17000	3.1 U	3.2 U
1,2-Dichloroethane		500	500	500	5.0 U	4.2 U	4.2 U	4.7 U	2100 U	4.9 U	5.1 U	4.4 U	3.8 U	220 U	2500 U	3.1 U	3.2 U
1,3-Dichlorobenzene		60,000	60,000	60,000	5.0 U	4.2 U	4.2 U	4.7 U	18000	4.9 U	5.1 U	4.4 U	3.8 U	610	2500 U	3.1 U	3.2 U
1,4-Dichlorobenzene		7,500	7,500	7,500	5.0 U	4.2 U	4.2 U	4.7 U	46000	4.9 U	5.1 U	4.4 U	3.8 U	1200	5100	3.1 U	3.2 U
2-Butanone		200,000	200,000	200,000	50 U	42 U	42 U	47 U	21000 U	49 U	51 U	44 U	38 U	2200 U	25000 U	31 U	32 U
Acetone		400,000	400,000	400,000	100 U	85 U	83 U	95 U	43000 U	97 U	300	560	76 U	4400 U	51000 U	63 U	64 U
Benzene		500	500	500	5.0 U	4.2 U	4.2 U	4.7 U	2100 U	4.9 U	5.1 U	4.4 U	3.8 U	220 U	2500 U	3.1 U	3.2 U
Chlorobenzene		10,000	10,000	10,000	5.0 U	4.2 U	4.2 U	4.7 U	2100 U	4.9 U	5.1 U	4.4 U	3.8 U	220 U	2500 U	3.1 U	3.2 U
cis-1,2-Dichloroethene		7,000	7,000	7,000	5.0 U	7.4	4.2 U	4.7 U	2100 U	4.9 U	5.1 U	4.4 U	360	680	2500 U	3.1 U	3.2 U
Ethylbenzene		70,000	70,000	70,000	5.0 U	4.2 U	4.2 U	4.7 U	2100 U	4.9 U	5.1 U	4.4 U	3.8 U	220 U	2500 U	3.1 U	3.2 U
Isopropylbenzene		21,900	85,500	85,500	5.0 U	4.2 U	4.2 U	4.7 U	2100 U	4.9 U	5.1 U	4.4 U	3.8 U	220 U	2500 U	3.1 U	3.2 U
Tetrachloroethene (PCE)		500	500	500	5.0 U	4.2 U	4.2 U	4.7 U	2100 U	4.9 U	5.1 U	4.4 U	15	940	2500 U	3.1 U	3.2 U
Toluene		100,000	100,000	100,000	5.0 U	4.2 U	4.2 U	4.7 U	2100 U	4.9 U	5.1 U	4.4 U	3.8 U	1300	8500	3.1 U	3.2 U
trans-1,2-Dichloroethene		10,000	10,000	10,000	5.0 U	4.2 U	4.2 U	4.7 U	2100 U	4.9 U	5.1 U	4.4 U	3.8 U	220 U	2500 U	3.1 U	3.2 U
Trichloroethene (TCE)		500	500	500	5.0 U	4.2 U	4.2 U	4.7 U	2100 U	4.9 U	5.1 U	4.4 U	7.6	220 U	2500 U	3.1 U	3.2 U
Vinyl Chloride		200	200	200	10 U	8.5 U	8.3 U	9.5 U	4300 U	9.7 U	10 U	8.7 U	10	440 U	5100 U	6.3 U	6.4 U
Xylene (total)		1,000,000	1,000,000	1,000,000	5.0 U	4.2 U	4.2 U	4.7 U	2900	4.9 U	5.1 U	4.4 U	3.8 U	220 U	2500 U	3.1 U	3.2 U
Semivolatiles- ug/kg																	
Acenaphthene		300,000	1,258,000	1,258,000	450 U	400 U	400 U	400 U	1700	430 U	440 U	450 U	420 U	4800	3100	390 U	400 U
Anthracene		500,000	20,187,000	20,187,000	450 U	400 U	400 U	400 U	420 U	430 U	440 U	450 U	420 U	410 U	420 U	390 U	400 U
Fluoranthene		500,000	9,084,000	9,084,000	450 U	400 U	400 U	400 U	420 U	430 U	440 U	450 U	420 U	410 U	420 U	390 U	400 U
Fluorene		360,000	1,514,000	1,514,000	450 U	400 U	400 U	400 U	420 U	430 U	440 U	450 U	420 U	410 U	420 U	390 U	400 U
Naphthalene		100,000	100,000	100,000	450 U	400 U	400 U	400 U	99000	430 U	440 U	450 U	420 U	4500	810	390 U	400 U
Phenanthrene		110,000	110,000	100,000,000	450 U	400 U	400 U	400 U	1100	430 U	440 U	450 U	420 U	410 U	900	390 U	400 U
Pyrene		500,000	6,677,000	6,677,000	450 U	400 U	400 U	400 U	420 U	430 U	440 U	450 U	420 U	410 U	420 U	390 U	400 U

Table 5
Summary of Soil Analytical Data - Former Pump Room Area

	Location	Type 1 RRS	Non-Residential RRS		WCB-9	WCB-9	WCB-10	WCB-10	WCB-10	WCB-10	WCB-11	WCB-11	WCB-11	WCB-11	WCB-47	WCB-47
	Depth (feet bgs)		SS Soil (0-2')	SB Soil (>2')	12-13'	16-17'	0-2'	2-4'	9-10'	16-17'	0-2'	2-4'	9-10'	15-16'	0-2'	4-6'
	Date Sampled		RRS	RRS	2/5/13	2/5/13	2/5/13	2/5/13	2/5/13	2/5/13	2/5/13	2/5/13	2/5/13	2/5/13	9/9/13	9/9/13
Volatiles-ug/kg																
1,1,1-Trichloroethane		20,000	253,000	253,000	2300 U	2400 U	3.4 U	3.6 U	3.8 U	450 U	3.5 U	3.4 U	2000 U	2400 U	3.5 U	4800
1,1-Dichloroethane		400,000	400,000	400,000	2300 U	2400 U	3.4 U	3.6 U	3.8 U	450 U	3.5 U	5.7	2000 U	2400 U	19	2100 U
1,1-Dichloroethene		700	700	700	2300 U	2400 U	3.4 U	3.6 U	3.8 U	450 U	3.5 U	3.4 U	2000 U	2400 U	3.5 U	2100 U
1,2,4-Trichlorobenzene		10,800	10,800	10,800	540,000	580,000	3.4 U	3.6 U	3500	450,000	3.5 U	3.4 U	63000	61000	19	73000
1,2-Dichlorobenzene		60,000	60,000	60,000	130,000	250,000	3.4 U	3.6 U	13	310,000	3.5 U	3.4 U	130,000	140,000	65	420,000
1,2-Dichloroethane		500	500	500	2300 U	2400 U	3.4 U	3.6 U	3.8 U	450 U	3.5 U	3.4 U	2000 U	2400 U	3.5 U	2100 U
1,3-Dichlorobenzene		60,000	60,000	60,000	2300 U	3900	3.4 U	3.6 U	3.8 U	9800	3.5 U	3.4 U	9600	7500	12	30000
1,4-Dichlorobenzene		7,500	7,500	7,500	2300 U	8900	3.4 U	3.6 U	3.8 U	19000	3.5 U	3.4 U	27000	20000	29	79000
2-Butanone		200,000	200,000	200,000	23000 U	24000 U	34 U	36 U	38 U	4500 U	35 U	34 U	20000 U	24000 U	35 U	21000 U
Acetone		400,000	400,000	400,000	46000 U	47000 U	68 U	72 U	76 U	8900 U	71 U	69 U	40000 U	48000 U	70 U	42000 U
Benzene		500	500	500	2300 U	2400 U	3.4 U	3.6 U	3.8 U	450 U	3.5 U	3.4 U	2000 U	2400 U	3.5 U	2100 U
Chlorobenzene		10,000	10,000	10,000	2300 U	2400 U	3.4 U	3.6 U	3.8 U	450 U	3.5 U	3.4 U	2000 U	2400 U	45	2100 U
cis-1,2-Dichloroethene		7,000	7,000	7,000	2300 U	2400 U	3.4 U	3.6 U	3.8 U	450 U	3.5 U	27	2000 U	3900	53	8300
Ethylbenzene		70,000	70,000	70,000	2300 U	2400 U	3.4 U	3.6 U	3.8 U	2600	3.5 U	8.9	2000 U	2400 U	3.5 U	6200
Isopropylbenzene		21,900	85,500	85,500	2300 U	2400 U	3.4 U	3.6 U	3.8 U	2400	3.5 U	16	2000 U	2700	3.5 U	3200
Tetrachloroethene (PCE)		500	500	500	2300 U	2400 U	3.4 U	3.6 U	3.8 U	450 U	8.1	28	5600	2400 U	210	100,000
Toluene		100,000	100,000	100,000	15000	2400 U	3.4 U	3.6 U	4.6	40000	3.5 U	3.4 U	4200	49000	6.7	180,000
trans-1,2-Dichloroethene		10,000	10,000	10,000	2300 U	2400 U	3.4 U	3.6 U	3.8 U	450 U	3.5 U	3.4 U	2000 U	2400 U	4.9	2100 U
Trichloroethene (TCE)		500	500	500	2300 U	2400 U	3.4 U	3.6 U	3.8 U	450 U	3.5 U	15	2000 U	2400 U	84	23000
Vinyl Chloride		200	200	200	4600 U	4700 U	6.8 U	7.2 U	7.6 U	890 U	7.1 U	6.9 U	4000 U	4800 U	7 U	4200 U
Xylene (total)		1,000,000	1,000,000	1,000,000	4900	4800	3.4 U	3.6 U	3.8 U	21000	3.5 U	20	5000	18000	3.5 U	57000
Semivolatiles- ug/kg																
Acenaphthene		300,000	1,258,000	1,258,000	430 U	6100	380 U	400 U	410 U	12000	390 U	380 U	410 U	470 U		
Anthracene		500,000	20,187,000	20,187,000	430 U	4300 U	380 U	400 U	410 U	4400 U	390 U	380 U	410 U	470 U		
Fluoranthene		500,000	9,084,000	9,084,000	430 U	4300 U	380 U	400 U	410 U	4400 U	390 U	380 U	410 U	470 U		
Fluorene		360,000	1,514,000	1,514,000	430 U	4300 U	380 U	400 U	410 U	4400 U	390 U	380 U	410 U	470 U		
Naphthalene		100,000	100,000	100,000	17000	57000	380 U	400 U	610	290,000	390 U	380 U	50000	36000		
Phenanthrene		110,000	110,000	100,000,000	870	4300 U	380 U	400 U	410 U	4400 U	390 U	380 U	410 U	880		
Pyrene		500,000	6,677,000	6,677,000	430 U	4300 U	380 U	400 U	410 U	4400 U	390 U	380 U	410 U	470 U		

Table 5
Summary of Soil Analytical Data - Former Pump Room Area

	Location	Type 1 RRS	Non-Residential RRS		WCB-47	WCB-47	WCB-48	WCB-48	WCB-48	WCB-49	WCB-49	WCB-49	WCB-B15	WCB-B15	WCB-B15	WCB-B15
	Depth (feet bgs)		SS Soil (0-2')	SB Soil (>2')	8-10'	12-14'	4-6'	8-10'	12-14'	4-6'	8-10'	12-14'	0-2'	4-6'	8-10'	12-13'
	Date Sampled		RRS	RRS	9/9/13	9/9/13	9/9/13	9/9/13	9/9/13	9/9/13	9/9/13	9/9/13	9/9/13	9/9/13	9/9/13	9/9/13
Volatiles-ug/kg																
1,1,1-Trichloroethane		20,000	253,000	253,000	2300 U	400 U	150 U	3.4 U	2100 U	3.2 U	3.8 U	3.8 U	310 U	1600 U	2000 U	4300 U
1,1-Dichloroethane		400,000	400,000	400,000	2300 U	400 U	150 U	5.9	2100 U	4.5	3.8 U	5	310 U	1600 U	2000 U	4300 U
1,1-Dichloroethene		700	700	700	2300 U	400 U	150 U	3.4 U	2100 U	3.2 U	3.8 U	3.8 U	310 U	1600 U	2000 U	4300 U
1,2,4-Trichlorobenzene		10,800	10,800	10,800	33000	44000	2100	7.4	26000	3.2 U	6.7	3.8 U	1700	64000	41000	50000
1,2-Dichlorobenzene		60,000	60,000	60,000	12000	64000	990	13	5000	3.2 U	5.8	29	22000	44000	110,000	130,000
1,2-Dichloroethane		500	500	500	2300 U	400 U	150 U	3.4 U	2100 U	3.2 U	3.8 U	3.8 U	310 U	1600 U	2000 U	4300 U
1,3-Dichlorobenzene		60,000	60,000	60,000	2300 U	6400	150 U	3.4 U	2100 U	3.2 U	3.8 U	3.8 U	2800	1700	7200	6900
1,4-Dichlorobenzene		7,500	7,500	7,500	3300	11000	150 U	3.4 U	2100 U	3.2 U	3.8 U	4.6	5700	4100	19000	19000
2-Butanone		200,000	200,000	200,000	23000 U	4000 U	1500 U	34 U	21000 U	32 U	38 U	92	3100 U	16000 U	20000 U	43000 U
Acetone		400,000	400,000	400,000	46000 U	8000 U	3000 U	68 U	41000 U	63 U	76 U	460	6200 U	32000 U	41000 U	86000 U
Benzene		500	500	500	2300 U	400 U	150 U	3.4 U	2100 U	3.2 U	3.8 U	3.8 U	310 U	1600 U	2000 U	4300 U
Chlorobenzene		10,000	10,000	10,000	2300 U	400 U	150 U	3.4 U	2100 U	3.2 U	3.8 U	3.8 U	1600	1600 U	2000 U	4300 U
cis-1,2-Dichloroethene		7,000	7,000	7,000	6100	1700	150 U	69	2100 U	6.2	15	88	310 U	1600 U	2000 U	4300 U
Ethylbenzene		70,000	70,000	70,000	2300 U	400 U	540	3.4 U	2100 U	3.2 U	3.8 U	3.8 U	310 U	6200	5300	4300 U
Isopropylbenzene		21,900	85,500	85,500	2300 U	560	240	3.4 U	2100 U	3.2 U	3.8 U	3.8 U	310 U	3100	3400	4300 U
Tetrachloroethene (PCE)		500	500	500	32000	5100	1500	59	22000	6.7	14	66	310 U	2000	2200	6600
Toluene		100,000	100,000	100,000	52000	65000	11000	3500	2100 U	3.2 U	19	3.8 U	8300	1,700,000	580,000	190,000
trans-1,2-Dichloroethene		10,000	10,000	10,000	2300 U	400 U	150 U	3.4 U	2100 U	3.2 U	3.8 U	3.8 U	310 U	1600 U	2000 U	4300 U
Trichloroethene (TCE)		500	500	500	4000	510	310	24	2100 U	8.7	8.6	25	310 U	1600 U	2300	4300 U
Vinyl Chloride		200	200	200	4600 U	800 U	300 U	6.8 U	4100 U	6.3 U	7.6 U	7.6 U	620 U	3200 U	4100 U	8600 U
Xylene (total)		1,000,000	1,000,000	1,000,000	7700	5600	1900	12	2100 U	3.2 U	3.8 U	3.8 U	3000	34000	41000	30000
Semivolatiles- ug/kg																
Acenaphthene		300,000	1,258,000	1,258,000			390 U	430 U	430 U	390 U	420 U	460 U	370 U	3800 U	4200 U	4300 U
Anthracene		500,000	20,187,000	20,187,000			390 U	430 U	430 U	390 U	420 U	460 U	370 U	3800 U	4200 U	4300 U
Fluoranthene		500,000	9,084,000	9,084,000			390 U	430 U	430 U	390 U	420 U	460 U	370 U	3800 U	4200 U	4300 U
Fluorene		360,000	1,514,000	1,514,000			390 U	430 U	430 U	390 U	420 U	460 U	430	8200	18000	9600
Naphthalene		100,000	100,000	100,000			420	430 U	1500	390 U	420 U	460 U	700	37000	140,000	69000
Phenanthrene		110,000	110,000	100,000,000			390 U	430 U	1400	390 U	420 U	460 U	370 U	3800 U	5100	4300 U
Pyrene		500,000	6,677,000	6,677,000			390 U	430 U	430 U	390 U	420 U	460 U	370 U	3800 U	4200 U	4300 U

Table 5
Summary of Soil Analytical Data - Former Pump Room Area

Location	Type 1 RRS	Non-Residential RRS		WCB-50	WCB-50	WCB-50	WCB-50	WCB-51	WCB-51	WCB-51	WCB-52	WCB-52	WCB-52	WCB-53	WCB-53	WCB-53	WCB-54
Depth (feet bgs)		SS Soil (0-2')	SB Soil (>2')	0-2'	4-6'	8-10'	12-13'	0-2'	4-6'	8-10'	0-2'	4-6'	8-10'	0-2'	4-6'	8-10'	0-2'
Date Sampled		RRS	RRS	9/9/13	9/9/13	9/9/13	9/9/13	9/9/13	9/9/13	9/9/13	9/9/13	9/9/13	9/9/13	9/9/13	9/9/13	9/9/13	9/9/13
Volatiles-ug/kg																	
1,1,1-Trichloroethane	20,000	253,000	253,000	3.4 U	1200 U	2000 U	190 U	2.9 U	2.8 U	3700 U	2.7 U	3.2 U	3.6 U	3.7 U	4 U	300 U	3.1 U
1,1-Dichloroethane	400,000	400,000	400,000	13	1200 U	2000 U	190 U	2.9 U	2.8 U	3700 U	2.7 U	3.2 U	3.6 U	19	39	390	3.1 U
1,1-Dichloroethene	700	700	700	3.4 U	1200 U	2000 U	190 U	2.9 U	2.8 U	3700 U	2.7 U	3.2 U	3.6 U	3.7 U	4 U	300 U	3.1 U
1,2,4-Trichlorobenzene	10,800	10,800	10,800	3.4 U	7600	54000	7500	2.9 U	2.8 U	36000	2.7 U	3.2 U	4	3.7 U	4 U	16000	3.1 U
1,2-Dichlorobenzene	60,000	60,000	60,000	4.4	4900	31000	2800	2.9 U	2.8 U	13000	2.7 U	3.2 U	3.6 U	3.7 U	4 U	740	11
1,2-Dichloroethane	500	500	500	3.4 U	1200 U	2000 U	190 U	2.9 U	2.8 U	3700 U	2.7 U	3.2 U	3.6 U	3.7 U	4 U	300 U	3.1 U
1,3-Dichlorobenzene	60,000	60,000	60,000	3.4 U	1200 U	2000 U	190 U	2.9 U	2.8 U	3700 U	2.7 U	3.2 U	3.6 U	3.7 U	4 U	1700	3.1 U
1,4-Dichlorobenzene	7,500	7,500	7,500	3.4 U	1200 U	2600	240	2.9 U	2.8 U	3700 U	2.7 U	3.2 U	3.6 U	3.7 U	4 U	2400	19
2-Butanone	200,000	200,000	200,000	34 U	12000 U	20000 U	1900 U	29 U	28 U	37000 U	27 U	32 U	36 U	37 U	40 U	3000 U	31 U
Acetone	400,000	400,000	400,000	68 U	25000 U	40000 U	3900 U	58	55 U	74000 U	53 U	68	72 U	75 U	81 U	5900 U	62 U
Benzene	500	500	500	3.4 U	1200 U	2000 U	190 U	2.9 U	2.8 U	3700 U	2.7 U	3.2 U	3.6 U	3.7 U	4 U	300 U	3.1 U
Chlorobenzene	10,000	10,000	10,000	3.4 U	1200 U	2000 U	190 U	2.9 U	2.8 U	3700 U	2.7 U	3.2 U	3.6 U	3.7 U	4 U	300 U	76
cis-1,2-Dichloroethene	7,000	7,000	7,000	250	5900	2000 U	190 U	2.9 U	2.8 U	3700 U	3.6	3.2 U	3.6 U	170	1400	8700	3.1 U
Ethylbenzene	70,000	70,000	70,000	3.4 U	1200	2000 U	190 U	2.9 U	2.8 U	3700 U	2.7 U	3.2 U	3.6 U	3.7 U	4 U	300 U	3.1 U
Isopropylbenzene	21,900	85,500	85,500	3.4 U	1200 U	2000 U	190 U	2.9 U	2.8 U	3700 U	2.7 U	3.2 U	3.6 U	3.7 U	4 U	300 U	3.1 U
Tetrachloroethene (PCE)	500	500	500	17	1200 U	2000 U	190 U	5.2	2.8 U	3700 U	2.7 U	3.2 U	3.6 U	100	4 U	600	3.4
Toluene	100,000	100,000	100,000	14	21000	120,000	3300	2.9 U	2.8 U	55000	2.7 U	3.2 U	3.6 U	3.7 U	4 U	600	3.1 U
trans-1,2-Dichloroethene	10,000	10,000	10,000	3.4 U	1200 U	2000 U	190 U	2.9 U	2.8 U	3700 U	2.7 U	3.2 U	3.6 U	4.4	4.9	300 U	3.1 U
Trichloroethene (TCE)	500	500	500	5.8	1200 U	2000 U	190 U	4.1	2.8 U	3700 U	2.7 U	3.2 U	3.6 U	31	7.1	300 U	3.1 U
Vinyl Chloride	200	200	200	9.2	2500 U	4000 U	390 U	5.7 U	5.5 U	7400 U	5.3 U	6.4 U	7.2 U	17	39	590 U	6.2 U
Xylene (total)	1,000,000	1,000,000	1,000,000	3.4 U	9200	14000	370	2.9 U	2.8 U	10000	2.7 U	3.2 U	3.6 U	3.7 U	4 U	1400	3.1 U
Semivolatiles- ug/kg																	
Acenaphthene	300,000	1,258,000	1,258,000		3800 U	4200 U	440 U										
Anthracene	500,000	20,187,000	20,187,000		3800 U	4200 U	440 U										
Fluoranthene	500,000	9,084,000	9,084,000		3800 U	4200 U	440 U										
Fluorene	360,000	1,514,000	1,514,000		3800 U	6400	440 U										
Naphthalene	100,000	100,000	100,000		7800	40000	440 U										
Phenanthrene	110,000	110,000	100,000,000		3800 U	4200 U	440 U										
Pyrene	500,000	6,677,000	6,677,000		3800 U	4200 U	440 U										

Table 5
Summary of Soil Analytical Data - Former Pump Room Area

	Location	Type 1 RRS	Non-Residential RRS		WCB-54	WCB-54	WCB-B8-02	WCB-B8-02	WCB-B8-02	WCB-55	WCB-55	WCV-71	WCV-71	WCV-72	WCV-72	WCB-81	WCB-82
	Depth (feet bgs)		SS Soil (0-2')	SB Soil (>2')	4-6'	8-10'	0-2'	4-6'	8-10'	4-6'	8-10'	2-4'	6-8'	2-4'	6-8'	8-10'	8-10'
	Date Sampled		RRS	RRS	9/9/13	9/9/13	9/9/13	9/9/13	9/9/13	9/9/13	9/9/13	9/6/13	9/6/13	9/6/13	9/6/13	9/11/13	9/11/13
Volatiles-ug/kg																	
1,1,1-Trichloroethane		20,000	253,000	253,000	2400 U	410 U	3.9 U	4.4 U	3.8 U	4.4 U	4.3 U	27	6.8	29	76	190 U	4.1 U
1,1-Dichloroethane		400,000	400,000	400,000	2400 U	410 U	3.9 U	4.4 U	3.8 U	4.4 U	4.3 U	7.9	5.1	12	41	190 U	4.1 U
1,1-Dichloroethene		700	700	700	2400 U	410 U	3.9 U	4.4 U	3.8 U	4.4 U	4.3 U	5.8	5.8	27	39	190 U	4.1 U
1,2,4-Trichlorobenzene		10,800	10,800	10,800	10000	6500	3.9 U	6	72	5.8	12	2.8 U	3 U	3.4 U	3.7 U	28000	4.1 U
1,2-Dichlorobenzene		60,000	60,000	60,000	240,000	330,000	4.6	5.1	67	4.4 U	6.2	2.8 U	3 U	3.4 U	18	9800	4.1 U
1,2-Dichloroethane		500	500	500	2400 U	410 U	3.9 U	4.4 U	3.8 U	4.4 U	4.3 U	2.8 U	3 U	3.4 U	16	190 U	4.1 U
1,3-Dichlorobenzene		60,000	60,000	60,000	16000	19000	3.9 U	4.4 U	5.5	4.4 U	4.3 U	2.8 U	3 U	3.4 U	3.7 U	200	4.1 U
1,4-Dichlorobenzene		7,500	7,500	7,500	44000	50000	3.9 U	4.4 U	12	4.4 U	4.3 U	2.8 U	3 U	3.4 U	3.7 U	380	4.1 U
2-Butanone		200,000	200,000	200,000	24000 U	4100 U	39 U	44 U	38 U	44 U	43 U	28 U	30 U	34 U	37 U	1900 U	41 U
Acetone		400,000	400,000	400,000	48000 U	8200 U	79 U	87 U	470	120	86 U	96	60 U	80	74 U	3800 U	82 U
Benzene		500	500	500	2400 U	410 U	3.9 U	4.4 U	3.8 U	4.4 U	4.3 U	2.8 U	3 U	3.4 U	3.7 U	190 U	4.1 U
Chlorobenzene		10,000	10,000	10,000	2400 U	410 U	3.9 U	4.4 U	3.8 U	4.4 U	4.3 U	2.8 U	3 U	3.4 U	3.7 U	190 U	4.1 U
cis-1,2-Dichloroethene		7,000	7,000	7,000	2400 U	410 U	67	12	25	4.4 U	4.3 U	8.9	200	11	21	190 U	4.1 U
Ethylbenzene		70,000	70,000	70,000	2400 U	620	3.9 U	4.4 U	3.8 U	4.4 U	4.3 U	2.8 U	3 U	3.4 U	3.7 U	190 U	4.1 U
Isopropylbenzene		21,900	85,500	85,500	2400 U	490	3.9 U	4.4 U	3.8 U	4.4 U	4.3 U	2.8 U	3 U	3.4 U	3.7 U	190 U	4.1 U
Tetrachloroethene (PCE)		500	500	500	2400 U	410 U	40	4.4 U	6.6	33	4.3 U	10000	3600	220	350	880	4.1 U
Toluene		100,000	100,000	100,000	2400 U	5400	3.9 U	4.4 U	3.8 U	4.4 U	4.3 U	3.3	3 U	3.4 U	4.2	700	4.1 U
trans-1,2-Dichloroethene		10,000	10,000	10,000	2400 U	410 U	3.9 U	4.4 U	3.8 U	4.4 U	4.3 U	2.8 U	3 U	3.4 U	3.7 U	190 U	4.1 U
Trichloroethene (TCE)		500	500	500	2400 U	410 U	29	4.4 U	6	9.7	4.3 U	220	81	67	170	190 U	4.1 U
Vinyl Chloride		200	200	200	4800 U	820 U	7.9 U	8.7 U	7.5 U	8.7 U	8.6 U	5.7 U	12	6.9 U	7.4 U	380 U	8.2 U
Xylene (total)		1,000,000	1,000,000	1,000,000	2400 U	4200	3.9 U	4.4 U	3.8 U	4.4 U	4.3 U	2.8 U	3 U	3.4 U	8.4	4500	4.1 U
Semivolatiles- ug/kg																	
Acenaphthene		300,000	1,258,000	1,258,000	6300	8200											
Anthracene		500,000	20,187,000	20,187,000	4200 U	1500											
Fluoranthene		500,000	9,084,000	9,084,000	4200 U	420 U											
Fluorene		360,000	1,514,000	1,514,000	4700	420 U											
Naphthalene		100,000	100,000	100,000	39000	680,000											
Phenanthrene		110,000	110,000	100,000,000	4200 U	3400											
Pyrene		500,000	6,677,000	6,677,000	4200 U	420 U											

Table 5
Summary of Soil Analytical Data - Former Pump Room Area

Location	Type 1 RRS	Non-Residential RRS		WCB-83	WCB-83	WCB-83	WCB-98	WCB-98	WCB-99	WCB-99	WCB-100	WCB-100	WCB-100	WCB-101	WCB-103	WCB-103	WCB-103	WCB-104
Depth (feet bgs)		SS Soil (0-2')	SB Soil (>2')	0-2'	4-6'	8-10'	2-4'	6-8'	6-8'	8-10'	2-4'	6-8'	10-12'	8-10'	0-2'	3-5'	8-10'	0-2'
Date Sampled		RRS	RRS	9/11/13	9/11/13	9/11/13	4/9/14	4/9/14	4/9/14	4/9/14	4/9/14	4/9/14	4/9/14	4/9/14	4/9/14	4/9/14	4/9/14	4/9/14
Volatiles-ug/kg																		
1,1,1-Trichloroethane	20,000	253,000	253,000	3.7 U	3.6 U	4.1 U	3.6 U	3.4 U	3.9 U	4.1 U	3.7 U	16	17	4.2 U	3.9 U	2.9 U	3.8 U	2.6 U
1,1-Dichloroethane	400,000	400,000	400,000	3.7 U	3.6 U	4.1 U	3.6 U	3.4 U	3.9 U	4.1 U	3.7 U	4.7 U	3.8 U	4.2 U	3.9 U	2.9 U	4.1	2.6 U
1,1-Dichloroethene	700	700	700	3.7 U	3.6 U	4.1 U	3.6 U	3.4 U	3.9 U	4.1 U	3.7 U	8.2	9.5	4.2 U	3.9 U	2.9 U	3.8 U	2.6 U
1,2,4-Trichlorobenzene	10,800	10,800	10,800	3.7 U	3.6 U	4.1 U	3.6 U	3.4 U	3.9 U	4.1 U	5.5	4.7 U	3.8 U	4.2 U	5.8	2.9 U	3.8 U	2.6 U
1,2-Dichlorobenzene	60,000	60,000	60,000	4.9	3.6 U	4.1 U	5.4	3.4 U	3.9 U	4.1 U	22	4.7 U	3.8 U	4.2 U	3.9 U	2.9 U	3.8 U	2.6 U
1,2-Dichloroethane	500	500	500	3.7 U	3.6 U	4.1 U	3.6 U	3.4 U	3.9 U	4.1 U	3.7 U	4.7 U	3.8 U	4.2 U	3.9 U	2.9 U	3.8 U	2.6 U
1,3-Dichlorobenzene	60,000	60,000	60,000	3.7 U	3.6 U	4.1 U	3.6 U	3.4 U	3.9 U	4.1 U	3.7 U	4.7 U	3.8 U	4.2 U	3.9 U	2.9 U	3.8 U	2.6 U
1,4-Dichlorobenzene	7,500	7,500	7,500	3.7 U	3.6 U	4.1 U	3.6 U	3.4 U	3.9 U	4.1 U	9.5	4.7 U	3.8 U	4.2 U	3.9 U	2.9 U	3.8 U	2.6 U
2-Butanone	200,000	200,000	200,000	37 U	36 U	41 U	36 U	34 U	39 U	41 U	47	47 U	38 U	42 U	39 U	29 U	38 U	26 U
Acetone	400,000	400,000	400,000	74 U	72 U	82 U	72 U	69 U	79 U	83 U	1400	94 U	76 U	84 U	78 U	59 U	76 U	53 U
Benzene	500	500	500	3.7 U	3.6 U	4.1 U	3.6 U	3.4 U	3.9 U	4.1 U	3.7 U	4.7 U	3.8 U	4.2 U	3.9 U	2.9 U	3.8 U	2.6 U
Chlorobenzene	10,000	10,000	10,000	3.7 U	3.6 U	4.1 U	3.6 U	3.4 U	3.9 U	4.1 U	3.7 U	4.7 U	3.8 U	4.2 U	3.9 U	2.9 U	3.8 U	2.6 U
cis-1,2-Dichloroethene	7,000	7,000	7,000	3.7 U	3.6 U	4.1 U	29	55	42	54	84	630	340	29	5.9	10	8.5	16
Ethylbenzene	70,000	70,000	70,000	3.7 U	3.6 U	4.1 U	3.6 U	3.4 U	3.9 U	4.1 U	3.7 U	4.7 U	3.8 U	4.2 U	3.9 U	2.9 U	3.8 U	2.6 U
Isopropylbenzene	21,900	85,500	85,500	3.7 U	3.6 U	4.1 U	3.6 U	3.4 U	3.9 U	4.1 U	3.7 U	4.7 U	3.8 U	4.2 U	3.9 U	2.9 U	3.8 U	2.6 U
Tetrachloroethene (PCE)	500	500	500	8.5	22	4.1 U	980	80	84	110	11000	1100	5100	1700	21	21	3.8 U	2.6 U
Toluene	100,000	100,000	100,000	3.7 U	3.6 U	4.1 U	3.6 U	3.4 U	3.9 U	4.1 U	3.7 U	4.7 U	3.8 U	4.2 U	3.9 U	2.9 U	3.8 U	2.6 U
trans-1,2-Dichloroethene	10,000	10,000	10,000	3.7 U	3.6 U	4.1 U	3.6 U	3.4 U	3.9 U	4.1 U	3.7 U	4.7 U	4	4.2 U	3.9 U	2.9 U	3.8 U	2.6 U
Trichloroethene (TCE)	500	500	500	3.7 U	3.6 U	4.1 U	60	16	16	16	97	200	140	29	16	10	5.7	2.6 U
Vinyl Chloride	200	200	200	7.4 U	7.2 U	8.2 U	7.2 U	6.9 U	7.9 U	8.3 U	7.3 U	24	8.6	8.4 U	7.8 U	5.9 U	7.6 U	5.3 U
Xylene (total)	1,000,000	1,000,000	1,000,000	3.7 U	3.6 U	4.1 U	3.6 U	3.4 U	3.9 U	4.1 U	18	9.7	3.8 U	4.2 U	3.9 U	2.9 U	3.8 U	2.6 U
Semivolatiles- ug/kg																		
Acenaphthene	300,000	1,258,000	1,258,000															
Anthracene	500,000	20,187,000	20,187,000															
Fluoranthene	500,000	9,084,000	9,084,000															
Fluorene	360,000	1,514,000	1,514,000															
Naphthalene	100,000	100,000	100,000															
Phenanthrene	110,000	110,000	100,000,000															
Pyrene	500,000	6,677,000	6,677,000															

Table 5
Summary of Soil Analytical Data - Former Pump Room Area

Location	Type 1 RRS	Non-Residential RRS		WCB-104	WCB-104	WCB-118	WCB-118	WCB-119	WCB-119	WCB-119	WCB-120	WCB-120	WCB-120	WCTX-67	WCTX-67	WCTX-68	WCTX-68
Depth (feet bgs)		SS Soil (0-2')	SB Soil (>2')	3-5'	8-10'	0-2'	3-5'	0-2'	3-5'	7-9'	0-2'	3-5'	7-9'	3-5'	7-9'	3-5'	7-9'
Date Sampled		RRS	RRS	4/9/14	4/9/14	5/19/14	5/19/14	5/19/14	5/19/14	5/19/14	5/19/14	5/19/14	5/19/14	7/28/14	7/28/14	7/28/14	7/28/14
Volatiles-ug/kg																	
1,1,1-Trichloroethane	20,000	253,000	253,000	3 U	3.8 U	3.9 U	4.2 U	3.8 U	17	68	3.7 U	6.1	23	2.9 U	16	4.2 U	4 U
1,1-Dichloroethane	400,000	400,000	400,000	3 U	3.8 U	3.9 U	4.2 U	3.8 U	6.2	35	3.7 U	3.3 U	4.6 U	5.6	10	4.2 U	4 U
1,1-Dichloroethene	700	700	700	3 U	3.8 U	3.9 U	4.2 U	3.8 U	13	52	3.7 U	3.3 U	14	2.9 U	13	4.2 U	4 U
1,2,4-Trichlorobenzene	10,800	10,800	10,800	3 U	3.8 U	6	4.2 U	6.6	2.5 U	4.8 U	4.8	3.3 U	4.6 U	7.0	5.1 U	4.2 U	4 U
1,2-Dichlorobenzene	60,000	60,000	60,000	3 U	3.8 U	12	4.2 U	9.6	2.5 U	10	10	3.3 U	4.6 U	13	5.1 U	4.2 U	4 U
1,2-Dichloroethane	500	500	500	3 U	3.8 U	3.9 U	4.2 U	3.8 U	2.5 U	11	3.7 U	3.3 U	4.6 U	2.9 U	5.1 U	4.2 U	4 U
1,3-Dichlorobenzene	60,000	60,000	60,000	3 U	3.8 U	3.9 U	4.2 U	3.8 U	2.5 U	4.8 U	3.7 U	3.3 U	4.6 U	2.9 U	5.1 U	4.2 U	4 U
1,4-Dichlorobenzene	7,500	7,500	7,500	3 U	3.8 U	3.9 U	4.2 U	3.8 U	2.5 U	12	3.7 U	3.3 U	4.6 U	4.1	5.1 U	4.2 U	4 U
2-Butanone	200,000	200,000	200,000	30 U	38 U	39 U	42 U	38 U	25 U	48 U	37 U	33 U	46 U	29 U	51 U	42 U	40 U
Acetone	400,000	400,000	400,000	59 U	77 U	140	83 U	75 U	50 U	97 U	210	65 U	93 U	170	100 U	84 U	80 U
Benzene	500	500	500	3 U	3.8 U	3.9 U	4.2 U	3.8 U	2.5 U	4.8 U	3.7 U	3.3 U	4.6 U	2.9 U	5.1 U	4.2 U	4 U
Chlorobenzene	10,000	10,000	10,000	3 U	3.8 U	3.9 U	4.2 U	3.8 U	2.5 U	4.8 U	3.7 U	3.3 U	4.6 U	2.9 U	5.1 U	4.2 U	4 U
cis-1,2-Dichloroethene	7,000	7,000	7,000	6.1	3.8 U	3.9 U	35	3.8 U	220	360	3.7 U	50	130	16	79	4.2 U	15
Ethylbenzene	70,000	70,000	70,000	3 U	3.8 U	3.9 U	4.2 U	3.8 U	2.5 U	4.8 U	3.7 U	3.3 U	4.6 U	2.9 U	5.1 U	4.2 U	4 U
Isopropylbenzene	21,900	85,500	85,500	3 U	3.8 U	3.9 U	4.2 U	3.8 U	2.5 U	4.8 U	3.7 U	3.3 U	4.6 U	2.9 U	5.1 U	4.2 U	4 U
Tetrachloroethene (PCE)	500	500	500	3 U	3.8 U	48	140	140	2900	3500	150	2400	6300	2000	830	2000	1300
Toluene	100,000	100,000	100,000	3 U	3.8 U	3.9 U	4.2 U	3.8 U	2.5 U	4.8 U	3.7 U	3.3 U	4.6 U	2.9 U	5.1 U	4.2 U	4 U
trans-1,2-Dichloroethene	10,000	10,000	10,000	3 U	3.8 U	3.9 U	4.2 U	3.8 U	2.5 U	4.8 U	3.7 U	3.3 U	4.6 U	2.9 U	5.1 U	4.2 U	4 U
Trichloroethene (TCE)	500	500	500	3 U	3.8 U	4.7	27	5.2	220	480	3.7 U	55	160	21	90	17	24
Vinyl Chloride	200	200	200	5.9 U	7.7 U	7.8 U	8.3 U	7.5 U	12	28	7.5 U	6.5 U	16	5.8 U	10 U	8.4 U	8 U
Xylene (total)	1,000,000	1,000,000	1,000,000	3 U	3.8 U	3.9 U	4.2 U	3.8 U	2.5 U	7.1	3.7 U	3.3 U	4.6 U	3.6	5.1 U	4.2 U	4 U
Semivolatiles- ug/kg																	
Acenaphthene	300,000	1,258,000	1,258,000														
Anthracene	500,000	20,187,000	20,187,000														
Fluoranthene	500,000	9,084,000	9,084,000														
Fluorene	360,000	1,514,000	1,514,000														
Naphthalene	100,000	100,000	100,000														
Phenanthrene	110,000	110,000	100,000,000														
Pyrene	500,000	6,677,000	6,677,000														

Table 5
Summary of Soil Analytical Data - Former Pump Room Area

	Location	Type 1 RRS	Non-Residential RRS		WCTX-67A	WCTX-67A	WCTX-68B	WCTX-68B	WCTX-67B	WCTX-67B	WCTX-68C	WCTX-68D
	Depth (feet bgs)		SS Soil (0-2')	SB Soil (>2')	3-5'	7-9'	3-5'	7-9'	3-5'	7-9'	3-5'	3-5'
	Date Sampled		RRS	RRS	7/30/14	7/30/14	7/30/14	7/30/14	8/1/14	8/1/14	8/1/14	8/5/14
Volatiles-ug/kg												
1,1,1-Trichloroethane		20,000	253,000	253,000	3.3 U	76	3.1 U	5.1 U	41	26	5	5 U
1,1-Dichloroethane		400,000	400,000	400,000	3.3 U	57	3.1 U	5.1 U	22	16	3.7 U	5 U
1,1-Dichloroethene		700	700	700	3.3 U	27	3.1 U	5.1 U	14	11	8	5 U
1,2,4-Trichlorobenzene		10,800	10,800	10,800	4.1	5.6	3.1 U	5.1 U	4.3 U	3.8 U	3.7 U	5 U
1,2-Dichlorobenzene		60,000	60,000	60,000	11	76	3.1 U	5.1 U	35	29	33	5 U
1,2-Dichloroethane		500	500	500	3.3 U	73	3.1 U	5.1 U	14	12	3.7 U	5 U
1,3-Dichlorobenzene		60,000	60,000	60,000	3.3 U	4.8 U	3.1 U	5.1 U	4.3 U	3.8 U	3.7 U	5 U
1,4-Dichlorobenzene		7,500	7,500	7,500	3.3 U	8.2	3.1 U	5.1 U	4.3 U	3.8 U	9.9	5 U
2-Butanone		200,000	200,000	200,000	33 U	48 U	31 U	51 U	43 U	38 U	37 U	50 U
Acetone		400,000	400,000	400,000	89	95 U	61 U	100 U	87 U	75 U	75 U	100 U
Benzene		500	500	500	3.3 U	4.8 U	3.1 U	5.1 U	4.3 U	3.8 U	3.7 U	5 U
Chlorobenzene		10,000	10,000	10,000	3.3 U	4.8 U	3.1 U	5.1 U	4.3 U	3.8 U	3.7 U	5 U
cis-1,2-Dichloroethene		7,000	7,000	7,000	3.3 U	47	3.2	5.1 U	4.3 U	4	12	5 U
Ethylbenzene		70,000	70,000	70,000	3.3 U	4.8 U	3.1 U	5.1 U	4.3 U	3.8 U	3.7 U	5 U
Isopropylbenzene		21,900	85,500	85,500	3.3 U	4.8 U	3.1 U	5.1 U	4.3 U	3.8 U	3.7 U	5 U
Tetrachloroethene (PCE)		500	500	500	660	540	740	70	120	87	530	42
Toluene		100,000	100,000	100,000	3.3 U	23	3.1 U	5.1 U	4.4	3.8 U	3.7 U	5 U
trans-1,2-Dichloroethene		10,000	10,000	10,000	3.3 U	4.8 U	3.1 U	5.1 U	4.3 U	3.8 U	3.7 U	5 U
Trichloroethene (TCE)		500	500	500	15	200	11	7.6	81	60	100	14
Vinyl Chloride		200	200	200	6.6 U	9.5 U	6.1 U	10 U	8.7 U	7.5 U	7.5 U	10 U
Xylene (total)		1,000,000	1,000,000	1,000,000	3.3 U	28	3.3	5.1 U	13	9.9	15	5 U
Semivolatiles- ug/kg												
Acenaphthene		300,000	1,258,000	1,258,000								
Anthracene		500,000	20,187,000	20,187,000								
Fluoranthene		500,000	9,084,000	9,084,000								
Fluorene		360,000	1,514,000	1,514,000								
Naphthalene		100,000	100,000	100,000								
Phenanthrene		110,000	110,000	100,000,000								
Pyrene		500,000	6,677,000	6,677,000								

Table 6
Summary of Soil Analytical Data - Wastewater Treatment Facility Area

Location	Type 1 RRS	Non-Residential RRS		B-15-03A	B-15-03B	B-15-03C	B-15-03D	B-1A	B-1B	B-1	B-1	B-1	B-2	B-2	B-2	WCB-1	WCB-1	WCB-1
Depth (feet bgs)		SS Soil (0-2')	SB Soil (>2')	2'-4'	4'-6'	8'-10'	12'-14'	3	5	8-9'	17-18'	22-23'	8-10'	12-13'	16-17'	0-2'	2-4'	13-14'
Date Sampled		RRS	RRS	1/30/03	1/30/03	1/30/03	1/30/03	3/20/03	3/20/03	2/4/13	2/4/13	2/4/13	2/4/13	2/4/13	2/4/13	2/4/13	2/4/13	2/4/13
Volatiles-ug/kg																		
1,2,4-Trichlorobenzene	10,800	10,800	10,800	330 U	330 U	330 U	330 U	1700 U	1700 U	1,400,000	500 U	5800	3100	35	970	16	4.5 U	7.6
1,2-Dichlorobenzene	60,000	60,000	60,000	330 U	330 U	330 U	330 U	1700 U	1700 U	3000	500 U	2300	14	4.8 U	36	5.2 U	4.5 U	3.6 U
1,3-Dichlorobenzene	60,000	60,000	60,000					1700 U	1700 U	3700	500 U	200 U	4.2 U	4.8 U	4.6 U	5.2 U	4.5 U	3.6 U
1,4-Dichlorobenzene	7,500	7,500	7,500					1700 U	1700 U	21000	500 U	200 U	7.6	4.8 U	4.6 U	8.9	6.4	3.6 U
Acetone	400,000	400,000	400,000	63 U	120 U	61 U	74 U	42 U	87	40000 U	10000 U	4000 U	85 U	96 U	92 U	110	91 U	72 U
Benzene	500	500	500	6 U	12 U	6 U	7 U	4.2 U	5.5 U	2000 U	500 U	200 U	4.2 U	4.8 U	4.6 U	5.2 U	4.5 U	3.6 U
Carbon disulfide	400,000	400,000	400,000					7.6	5.5 U	4000 U	1000 U	400 U	8.5 U	9.6 U	9.2 U	10 U	9.1 U	7.2 U
Chlorobenzene	10,000	10,000	10,000	6 U	12 U	6 U	7 U	4.2 U	5.5 U	22000	14000	200 U	4.2 U	4.8 U	4.6 U	5.2 U	4.5 U	3.6 U
cis-1,2-Dichloroethene	7,000	7,000	7,000	6 U	12 U	6 U	7 U	4.2 U	5.5 U	2000 U	500 U	200 U	4.2 U	4.8 U	4.6 U	5.2 U	4.5 U	3.6 U
Ethylbenzene	70,000	70,000	70,000	6 U	12 U	6 U	7 U	4.2 U	5.5 U	2000 U	500 U	200 U	4.2 U	4.8 U	4.6 U	5.2 U	4.5 U	3.6 U
Isopropylbenzene	21,900	85,500	85,500							2000 U	500 U	200 U	4.2 U	4.8 U	4.6 U	5.2 U	4.5 U	3.6 U
Styrene	14,000	135,000	135,000					4.2 U	5.5 U	2000 U	500 U	200 U	4.2 U	4.8 U	4.6 U	5.2 U	4.5 U	3.6 U
Tetrachloroethene (PCE)	500	500	500	6 U	12 U	6 U	7 U	4.2 U	13	2000 U	500 U	200 U	4.2 U	4.8 U	8.4	5.2 U	4.5 U	3.6 U
Toluene	100,000	100,000	100,000	6 U	12 U	6 U	7 U	4.2 U	5.5 U	2000 U	500 U	200 U	4.2 U	4.8 U	4.6 U	5.2 U	4.5 U	3.6 U
Trichloroethene (TCE)	500	500	500	6 U	12 U	6 U	7 U	4.2 U	5.5 U	2000 U	500 U	200 U	4.2 U	4.8 U	4.6 U	5.2 U	4.5 U	3.6 U
Xylene (total)	1,000,000	1,000,000	1,000,000	19 U	36 U	18 U	22 U	13 U	16 U	2000 U	500 U	200 U	4.2 U	4.8 U	4.6 U	5.2 U	4.5 U	3.6 U
Semivolatiles- ug/kg																		
Acenaphthene	300,000	1,258,000	1,258,000					1700 U	1700 U	3,300	610	410 U	420 U	440 U	450 U	390 U	420 U	390 U
Anthracene	500,000	20,187,000	20,187,000							400 U	420 U	410 U	420 U	440 U	450 U	390 U	420 U	390 U
Benzo(a)anthracene	5,000	10,100	10,100							400 U	420 U	410 U	420 U	440 U	450 U	390 U	420 U	390 U
Benzo(a)pyrene	1,640	4,700	4,700							400 U	420 U	410 U	420 U	440 U	450 U	390 U	420 U	390 U
Benzo(b)fluoranthene	5,000	5,000	5,000							400 U	420 U	410 U	420 U	440 U	450 U	390 U	420 U	390 U
Benzo(g,h,i)perylene	500,000	500,000	100,000,000							400 U	420 U	410 U	420 U	440 U	450 U	390 U	420 U	390 U
Benzo(k)fluoranthene	5,000	49,600	49,600							400 U	420 U	410 U	420 U	440 U	450 U	390 U	420 U	390 U
Chrysene	5,000	152,000	152,000							400 U	420 U	410 U	420 U	440 U	450 U	390 U	420 U	390 U
Fluoranthene	500,000	9,084,000	9,084,000							400 U	420 U	410 U	420 U	440 U	450 U	390 U	420 U	390 U
Fluorene	360,000	1,514,000	1,514,000					1700 U	1700 U	400 U	420 U	410 U	420 U	440 U	450 U	390 U	420 U	390 U
Indeno(1,2,3-cd)pyrene	5,000	78,400	111,000							400 U	420 U	410 U	420 U	440 U	450 U	390 U	420 U	390 U
Naphthalene	100,000	100,000	100,000	330 U	330 U	330 U	330 U	1700 U	1700 U	400 U	420 U	410 U	420 U	440 U	450 U	390 U	420 U	390 U
Phenanthrene	110,000	110,000	100,000,000	330 U	330 U	330 U	330 U			530	420 U	410 U	420 U	440 U	450 U	390 U	420 U	390 U
Pyrene	500,000	6,677,000	6,677,000							400 U	420 U	410 U	420 U	440 U	450 U	390 U	420 U	390 U
Pesticides - mg/kg																		
4,4'-DDD	0.660	12.9	12.9	0.15	0.069	0.43	0.0028											
4,4'-DDE	0.660	9.15	9.15	0.21	0.12	0.083 U	0.0017 U											
4,4'-DDT	0.660	13.1	13.1	1.2	0.52	3.3	0.028											
alpha-BHC	0.660	0.66	0.66															
Chlordane	9.20	9.2	9.2	0.033 U	0.033 U	0.083 U	0.0017 U											
Dieldrin	0.660	0.66	0.66	0.033 U	0.033 U	0.083 U	0.0017 U											
gamma-Chlordane	9.20	9.2	9.2	0.33 U	0.033 U	0.83 U	0.017 U											
Heptachlor epoxide	1.64	1.65	1.65	0.033 U	0.033 U	0.083 U	0.0017 U											

Notes:

Only those compounds detected in one or more samples are shown.

Only those samples collected in 2013 or 2014 are shown, along with older samples relevant to the 2014 remediation/delineation.

U Analyte undetected at reporting limit shown

Denotes sample location was remediated by excavation and off-site disposal.

Denotes sample was collected at or beneath the groundwater table and thus not subject to removal.

Table 6
Summary of Soil Analytical Data - Wastewater Treatment Facility Area

Location	Type 1 RRS	Non-Residential RRS		WCB-1	WCB-2	WCB-2	WCB-2	WCB-2	WCB-3	WCB-3	WCB-3	WCB 3	WCB-4	WCB-4	WCB-4	WCB-26	WCB-26	WCB-26
Depth (feet bgs)		SS Soil (0-2')	SB Soil (>2')	19-20'	0-2'	2-4'	13-14'	16-17'	0-2'	4-5'	10-12'	16-17'	6-7'	13'-14'	19-20'	8-9'	12-13'	16-17'
Date Sampled		RRS	RRS	2/4/13	2/4/13	2/4/13	2/4/13	2/4/13	2/4/13	2/4/13	2/4/13	2/4/13	2/4/13	2/4/13	2/4/13	2/4/13	2/4/13	2/4/13
Volatiles-ug/kg																		
1,2,4-Trichlorobenzene	10,800	10,800	10,800	24000	3.6 U	4.0 U	4.8 U	11	4.0 U	4.9 U	4.2 U	4.7 U	4.7 U	4.8 U	21000	970,000	1,700,000	360,000
1,2-Dichlorobenzene	60,000	60,000	60,000	13000	3.6 U	4.0 U	4.8 U	33	4.0 U	4.9 U	4.2 U	4.7 U	4.7 U	4.8 U	1300	350,000	3,000,000	540,000
1,3-Dichlorobenzene	60,000	60,000	60,000	1100	3.6 U	4.0 U	4.8 U	5.1 U	4.0 U	4.9 U	4.2 U	4.7 U	4.7 U	4.8 U	230 U	35000	200,000	39000
1,4-Dichlorobenzene	7,500	7,500	7,500	2500	3.6 U	4.0 U	4.8 U	5.8	4.0 U	4.9 U	4.2 U	4.7 U	4.7 U	4.8 U	430	86000	520,000	90000
Acetone	400,000	400,000	400,000	4100 U	81	80 U	97 U	100 U	80 U	98 U	83 U	95 U	95 U	96 U	4700 U	43000 U	51000 U	4800 U
Benzene	500	500	500	200 U	3.6 U	4.0 U	4.8 U	5.1 U	4.0 U	4.9 U	4.2 U	4.7 U	4.7 U	4.8 U	230 U	2100 U	2500 U	240 U
Carbon disulfide	400,000	400,000	400,000	410 U	7.2 U	8.0 U	9.7 U	10 U	8.0 U	9.8 U	8.3 U	9.5 U	9.5 U	9.6 U	470 U	4300 U	5100 U	480 U
Chlorobenzene	10,000	10,000	10,000	200 U	3.6 U	4.0 U	4.8 U	5.1 U	4.0 U	4.9 U	4.2 U	4.7 U	4.7 U	4.8 U	230 U	14000	2500 U	440
cis-1,2-Dichloroethene	7,000	7,000	7,000	200 U	3.6 U	4.0 U	4.8 U	5.1 U	4.0 U	4.9 U	4.2 U	4.7 U	4.7 U	4.8 U	230 U	2100 U	2500 U	240 U
Ethylbenzene	70,000	70,000	70,000	200 U	3.6 U	4.0 U	4.8 U	5.1 U	4.0 U	4.9 U	4.2 U	4.7 U	4.7 U	4.8 U	230 U	2100 U	2500 U	440
Isopropylbenzene	21,900	85,500	85,500	200 U	3.6 U	4.0 U	4.8 U	5.1 U	4.0 U	4.9 U	4.2 U	4.7 U	4.7 U	4.8 U	230 U	2100 U	2500 U	280
Styrene	14,000	135,000	135,000	200 U	3.6 U	4.0 U	4.8 U	5.1 U	4.0 U	4.9 U	4.2 U	4.7 U	4.7 U	4.8 U	230 U	2100 U	2500 U	240 U
Tetrachloroethene (PCE)	500	500	500	2000	3.6 U	4.0 U	4.8 U	5.1 U	4.0 U	4.9 U	4.2 U	4.7 U	4.7 U	8.5	230 U	2100 U	2500 U	610
Toluene	100,000	100,000	100,000	250	3.6 U	4.0 U	4.8 U	5.1 U	4.0 U	4.9 U	4.2 U	4.7 U	4.7 U	4.8 U	230 U	2100 U	4400	16000
Trichloroethene (TCE)	500	500	500	200 U	3.6 U	4.0 U	4.8 U	5.1 U	4.0 U	4.9 U	4.2 U	4.7 U	4.7 U	4.8 U	230 U	2100 U	2500 U	240 U
Xylene (total)	1,000,000	1,000,000	1,000,000	1300	3.6 U	4.0 U	4.8 U	5.1 U	4.0 U	4.9 U	4.2 U	4.7 U	4.7 U	4.8 U	230 U	2100 U	8700	3500
Semivolatiles- ug/kg																		
Acenaphthene	300,000	1,258,000	1,258,000	3900	380 U	390 U	450 U	450 U	400 U	420 U	400 U	400 U	420 U	400 U	1900	4100 U	4400 U	450 U
Anthracene	500,000	20,187,000	20,187,000	410 U	380 U	390 U	450 U	450 U	400 U	420 U	400 U	400 U	420 U	400 U	410 U	4100 U	4400 U	450 U
Benzo(a)anthracene	5,000	10,100	10,100	410 U	380 U	390 U	450 U	450 U	400 U	420 U	400 U	400 U	420 U	400 U	410 U	4100 U	4400 U	450 U
Benzo(a)pyrene	1,640	4,700	4,700	410 U	380 U	390 U	450 U	450 U	400 U	420 U	400 U	400 U	420 U	400 U	410 U	4100 U	4400 U	450 U
Benzo(b)fluoranthene	5,000	5,000	5,000	410 U	380 U	390 U	450 U	450 U	400 U	420 U	400 U	400 U	420 U	400 U	410 U	4100 U	4400 U	450 U
Benzo(g,h,i)perylene	500,000	500,000	100,000,000	410 U	380 U	390 U	450 U	450 U	400 U	420 U	400 U	400 U	420 U	400 U	410 U	4100 U	4400 U	450 U
Benzo(k)fluoranthene	5,000	49,600	49,600	410 U	380 U	390 U	450 U	450 U	400 U	420 U	400 U	400 U	420 U	400 U	410 U	4100 U	4400 U	450 U
Chrysene	5,000	152,000	152,000	410 U	380 U	390 U	450 U	450 U	400 U	420 U	400 U	400 U	420 U	400 U	410 U	4100 U	4400 U	450 U
Fluoranthene	500,000	9,084,000	9,084,000	410 U	380 U	390 U	450 U	450 U	400 U	420 U	400 U	400 U	420 U	400 U	410 U	4100 U	4400 U	450 U
Fluorene	360,000	1,514,000	1,514,000	2600	380 U	390 U	450 U	450 U	400 U	420 U	400 U	400 U	420 U	400 U	1300	4100 U	4400 U	450 U
Indeno(1,2,3-cd)pyrene	5,000	78,400	111,000	410 U	380 U	390 U	450 U	450 U	400 U	420 U	400 U	400 U	420 U	400 U	410 U	4100 U	4400 U	450 U
Naphthalene	100,000	100,000	100,000	10000	380 U	390 U	450 U	450 U	400 U	420 U	400 U	400 U	420 U	400 U	19000	24000	39000	11000
Phenanthrene	110,000	110,000	100,000,000	600	380 U	390 U	450 U	450 U	400 U	420 U	400 U	400 U	420 U	400 U	500	4100 U	4400 U	450 U
Pyrene	500,000	6,677,000	6,677,000	410 U	380 U	390 U	450 U	450 U	400 U	420 U	400 U	400 U	420 U	400 U	410 U	4100 U	4400 U	450 U
Pesticides - mg/kg																		
4,4' -DDD	0.660	12.9	12.9															
4,4' -DDE	0.660	9.15	9.15															
4,4' -DDT	0.660	13.1	13.1															
alpha-BHC	0.660	0.66	0.66															
Chlordane	9.20	9.2	9.2															
Dieldrin	0.660	0.66	0.66															
gamma-Chlordane	9.20	9.2	9.2															
Heptachlor epoxide	1.64	1.65	1.65															

Table 6
Summary of Soil Analytical Data - Wastewater Treatment Facility Area

Location	Type 1 RRS	Non-Residential RRS		WCB-27	WCB-27	WCB-27	WTF-VER-74/74A	WTF-VER-74/74A	WTF-VER-74/74A	WCB-56	WCB-56	WCB-56	WCB-57	WCB-57	WCB-57	WCB-57	WCB-58
Depth (feet bgs)		SS Soil (0-2')	SB Soil (>2')	0-2'	2-4'	6-7'	8-10'	17'-18'	23-24'	0-2'	4-6'	7-9'	0-2'	4-6'	7-9'	11-13'	8-10'
Date Sampled		RRS	RRS	2/4/13	2/4/13	2/4/13	2/4/13	2/4/13	2/4/13	9/10/13	9/10/13	9/10/13	9/10/13	9/10/13	9/10/13	9/10/13	9/10/13
Volatiles-ug/kg																	
1,2,4-Trichlorobenzene	10,800	10,800	10,800	3.9 U	3.5 U	4.1 U	960	210000	780	3.4 U	4.0 U	4.9 U	4.3 U	3.3 U	4.3 U	3.6 U	43000
1,2-Dichlorobenzene	60,000	60,000	60,000	3.9 U	3.5 U	4.1 U	21	57000	1500	3.4 U	4.0 U	4.9 U	4.3 U	3.3 U	4.3 U	3.6 U	110,000
1,3-Dichlorobenzene	60,000	60,000	60,000	3.9 U	3.5 U	4.1 U	21	2000 U	230 U	3.4 U	4.0 U	4.9 U	4.3 U	3.3 U	4.3 U	3.6 U	19000
1,4-Dichlorobenzene	7,500	7,500	7,500	3.9 U	3.5 U	4.1 U	730	3100	1100	3.4 U	4.0 U	4.9 U	4.3 U	3.3 U	4.3 U	3.6 U	40000
Acetone	400,000	400,000	400,000	79 U	69 U	82 U	100 U	40000 U	4600 U	69 U	80 U	99 U	86 U	65 U	86 U	72 U	37000 U
Benzene	500	500	500	3.9 U	3.5 U	4.1 U	5.0 U	2000 U	230 U	3.4 U	4.0 U	4.9 U	4.3 U	3.3 U	4.3 U	3.6 U	1900 U
Carbon disulfide	400,000	400,000	400,000	7.9 U	6.9 U	8.2 U	10 U	4000 U	460 U	6.9 U	8.0 U	9.9 U	8.6 U	6.5 U	8.6 U	7.2 U	3700 U
Chlorobenzene	10,000	10,000	10,000	3.9 U	3.5 U	4.1 U	480	2000 U	290	3.4 U	4.0 U	4.9 U	4.3 U	3.3 U	4.3 U	3.6 U	1900 U
cis-1,2-Dichloroethene	7,000	7,000	7,000	3.9 U	3.5 U	4.1 U	5.0 U	2000 U	310	3.4 U	4.0 U	4.9 U	4.3 U	3.3 U	4.3 U	3.6 U	1900 U
Ethylbenzene	70,000	70,000	70,000	3.9 U	3.5 U	4.1 U	5.0 U	2000 U	230 U	3.4 U	4.0 U	4.9 U	4.3 U	3.3 U	4.3 U	3.6 U	1900 U
Isopropylbenzene	21,900	85,500	85,500	3.9 U	3.5 U	4.1 U	5.0 U	2000 U	230 U	3.4 U	4.0 U	4.9 U	4.3 U	3.3 U	4.3 U	3.6 U	1900 U
Styrene	14,000	135,000	135,000	3.9 U	3.5 U	4.1 U	5.0 U	2000 U	230 U	3.4 U	4.0 U	4.9 U	4.3 U	3.3 U	4.3 U	3.6 U	1900 U
Tetrachloroethene (PCE)	500	500	500	3.9 U	3.5 U	4.1 U	5.0 U	2000 U	230 U	3.4 U	4.0 U	4.9 U	4.3 U	3.3 U	4.3 U	3.6 U	1900 U
Toluene	100,000	100,000	100,000	3.9 U	3.5 U	4.1 U	5.0 U	2000 U	230 U	3.4 U	4.0 U	4.9 U	4.3 U	3.3 U	4.3 U	3.6 U	1900 U
Trichloroethene (TCE)	500	500	500	3.9 U	3.5 U	4.1 U	5.0 U	2000 U	230 U	3.4 U	4.0 U	4.9 U	4.3 U	3.3 U	4.3 U	3.6 U	1900 U
Xylene (total)	1,000,000	1,000,000	1,000,000	3.9 U	3.5 U	4.1 U	5.0 U	2000 U	900	3.4 U	4.0 U	4.9 U	4.3 U	3.3 U	4.3 U	3.6 U	5600
Semivolatiles- ug/kg																	
Acenaphthene	300,000	1,258,000	1,258,000	390 U	390 U	380 U	990	410 U	5800	390 U	410 U	410 U	380 U	400 U	430 U	410 U	
Anthracene	500,000	20,187,000	20,187,000	390 U	390 U	380 U	360 U	410 U	430	390 U	410 U	410 U	380 U	400 U	430 U	410 U	
Benzo(a)anthracene	5,000	10,100	10,100	390 U	390 U	380 U	360 U	410 U	410 U	440	410 U	410 U	380 U	400 U	430 U	410 U	
Benzo(a)pyrene	1,640	4,700	4,700	390 U	390 U	380 U	360 U	410 U	410 U	720	410 U	410 U	380 U	400 U	430 U	410 U	
Benzo(b)fluoranthene	5,000	5,000	5,000	390 U	390 U	380 U	360 U	410 U	410 U	1100	410 U	410 U	380 U	400 U	430 U	410 U	
Benzo(g,h,i)perylene	500,000	500,000	100,000,000	390 U	390 U	380 U	360 U	410 U	410 U	680	410 U	410 U	380 U	400 U	430 U	410 U	
Benzo(k)fluoranthene	5,000	49,600	49,600	390 U	390 U	380 U	360 U	410 U	410 U	450	410 U	410 U	380 U	400 U	430 U	410 U	
Chrysene	5,000	152,000	152,000	390 U	390 U	380 U	360 U	410 U	410 U	690	410 U	410 U	380 U	400 U	430 U	410 U	
Fluoranthene	500,000	9,084,000	9,084,000	390 U	390 U	380 U	360 U	410 U	410 U	790	410 U	410 U	380 U	400 U	430 U	410 U	
Fluorene	360,000	1,514,000	1,514,000	390 U	390 U	380 U	360 U	1300	410 U	390 U	410 U	410 U	380 U	400 U	430 U	410 U	
Indeno(1,2,3-cd)pyrene	5,000	78,400	111,000	390 U	390 U	380 U	360 U	410 U	410 U	540	410 U	410 U	380 U	400 U	430 U	410 U	
Naphthalene	100,000	100,000	100,000	390 U	390 U	380 U	1500	11000	120000	390 U	410 U	410 U	380 U	400 U	430 U	410 U	
Phenanthrene	110,000	110,000	100,000,000	390 U	390 U	380 U	360 U	410 U	920	390 U	410 U	410 U	380 U	400 U	430 U	410 U	
Pyrene	500,000	6,677,000	6,677,000	390 U	390 U	380 U	360 U	410 U	410 U	690	410 U	410 U	380 U	400 U	430 U	410 U	
Pesticides - mg/kg																	
4,4' -DDD	0.660	12.9	12.9														
4,4' -DDE	0.660	9.15	9.15														
4,4' -DDT	0.660	13.1	13.1														
alpha-BHC	0.660	0.66	0.66														
Chlordane	9.20	9.2	9.2														
Dieldrin	0.660	0.66	0.66														
gamma-Chlordane	9.20	9.2	9.2														
Heptachlor epoxide	1.64	1.65	1.65														

Table 6
Summary of Soil Analytical Data - Wastewater Treatment Facility Area

Location	Type 1 RRS	Non-Residential RRS		WCB-B26	WCB-59	WCB-VER77	WCB-VER77	WCB-VER77	WCB-60	WCB-60	WCB-60	WCB-61	WCB-61	WCB-61	WCB-62	WCB-62	WCB-62
Depth (feet bgs)		SS Soil (0-2')	SB Soil (>2')	8-10'	8-10'	0-2'	5-7'	9-11'	0-2'	5-7'	9-11'	0-2'	5-7'	9-11'	0-2'	5-7'	9-11'
Date Sampled		RRS	RRS	9/10/13	9/10/13	9/10/13	9/10/13	9/10/13	9/10/13	9/10/13	9/10/13	9/10/13	9/10/13	9/10/13	9/10/13	9/10/13	9/10/13
Volatiles-ug/kg																	
1,2,4-Trichlorobenzene	10,800	10,800	10,800	9000	3.8 U												
1,2-Dichlorobenzene	60,000	60,000	60,000	26000	3.8 U												
1,3-Dichlorobenzene	60,000	60,000	60,000	2900	3.8 U												
1,4-Dichlorobenzene	7,500	7,500	7,500	7600	3.8 U												
Acetone	400,000	400,000	400,000	4400 U	520												
Benzene	500	500	500	220 U	3.8 U												
Carbon disulfide	400,000	400,000	400,000	440 U	7.6 U												
Chlorobenzene	10,000	10,000	10,000	220 U	3.8 U												
cis-1,2-Dichloroethene	7,000	7,000	7,000	220 U	3.8 U												
Ethylbenzene	70,000	70,000	70,000	220 U	3.8 U												
Isopropylbenzene	21,900	85,500	85,500	220 U	3.8 U												
Styrene	14,000	135,000	135,000	220 U	3.8 U												
Tetrachloroethene (PCE)	500	500	500	220 U	3.8 U												
Toluene	100,000	100,000	100,000	310	3.8 U												
Trichloroethene (TCE)	500	500	500	220 U	3.8 U												
Xylene (total)	1,000,000	1,000,000	1,000,000	220 U	3.8 U												
Semivolatiles- ug/kg																	
Acenaphthene	300,000	1,258,000	1,258,000														
Anthracene	500,000	20,187,000	20,187,000														
Benzo(a)anthracene	5,000	10,100	10,100														
Benzo(a)pyrene	1,640	4,700	4,700														
Benzo(b)fluoranthene	5,000	5,000	5,000														
Benzo(g,h,i)perylene	500,000	500,000	100,000,000														
Benzo(k)fluoranthene	5,000	49,600	49,600														
Chrysene	5,000	152,000	152,000														
Fluoranthene	500,000	9,084,000	9,084,000														
Fluorene	360,000	1,514,000	1,514,000														
Indeno(1,2,3-cd)pyrene	5,000	78,400	111,000														
Naphthalene	100,000	100,000	100,000														
Phenanthrene	110,000	110,000	100,000,000														
Pyrene	500,000	6,677,000	6,677,000														
Pesticides - mg/kg																	
4,4' -DDD	0.660	12.9	12.9			9.3	8.6	19	0.0038 U	0.0041 U	0.0049	0.076	0.0042 U	0.0042 U	49	41	0.80
4,4' -DDE	0.660	9.15	9.15			0.79	0.15	0.44	0.0038 U	0.0041 U	0.0042 U	0.093	0.0042 U	0.0075	3.5	0.80	0.14
4,4' -DDT	0.660	13.1	13.1			1.4	0.086 U	30	0.0038 U	0.0041 U	0.0042 U	0.65	0.0042 U	0.016	0.80	0.24 U	5.0
alpha-BHC	0.660	0.66	0.66														
Chlordane	9.20	9.2	9.2														
Dieldrin	0.660	0.66	0.66														
gamma-Chlordane	9.20	9.2	9.2														
Heptachlor epoxide	1.64	1.65	1.65														

Table 6
Summary of Soil Analytical Data - Wastewater Treatment Facility Area

Location	Type 1 RRS	Non-Residential RRS		WCB-84	WCB-84	WCB-84	WCB-105	WCB-105	WCB-105	WCB-106	WCB-106	WCB-106	WCB-107	WCB-107	WCB-107	WCB-108	WCB-108	WCB-109
Depth (feet bgs)		SS Soil (0-2')	SB Soil (>2')	0-2'	5-7'	9-11'	0-2'	3-5'	6-8'	0-2'	4-6'	8-10'	0-2'	4-6'	8-10'	8-10'	11-13'	5-7'
Date Sampled		RRS	RRS	9/30/13	9/30/13	9/30/13	4/9/14	4/9/14	4/9/14	4/9/14	4/9/14	4/9/14	4/9/14	4/9/14	4/9/14	4/9/14	4/9/14	4/9/14
Volatiles-ug/kg																		
1,2,4-Trichlorobenzene	10,800	10,800	10,800				3.3 U	1600	130,000	3.4 U	4.1 U	4.5 U	5.8	3.9 U	4.4 U	77	870	
1,2-Dichlorobenzene	60,000	60,000	60,000				3.3	1700	1700	3.4 U	4.1 U	4.5 U	4.7	3.9 U	4.4 U	330	6300	
1,3-Dichlorobenzene	60,000	60,000	60,000				3.3 U	3500	3200	3.4 U	4.1 U	4.5 U	9.5	3.9 U	4.4 U	53	110	
1,4-Dichlorobenzene	7,500	7,500	7,500				3.3 U	38000	22000	3.4 U	4.1 U	4.5 U	11	3.9 U	4.4 U	250	920	
Acetone	400,000	400,000	400,000				65 U	4200 U	4900 U	69 U	210	110	66 U	98	180	110	79 U	
Benzene	500	500	500				3.3 U	210 U	250 U	3.4 U	4.1 U	4.5 U	3.3 U	3.9 U	4.4 U	4.5 U	4 U	
Carbon disulfide	400,000	400,000	400,000				6.5 U	420 U	490 U	6.9 U	8.2 U	9 U	6.6 U	7.9 U	8.7 U	8.9 U	7.9 U	
Chlorobenzene	10,000	10,000	10,000				3.3 U	5900	9000	3.4 U	4.1 U	4.5 U	3.3 U	3.9 U	4.4 U	630	62	
cis-1,2-Dichloroethene	7,000	7,000	7,000				3.3 U	210 U	250 U	3.4 U	4.1 U	4.5 U	5.5	3.9 U	4.4 U	6.5	4.8	
Ethylbenzene	70,000	70,000	70,000				3.3 U	210 U	250 U	3.4 U	4.1 U	4.5 U	3.3 U	3.9 U	4.4 U	4.5 U	4 U	
Isopropylbenzene	21,900	85,500	85,500				3.3 U	210 U	250 U	3.4 U	4.1 U	4.5 U	3.3 U	3.9 U	4.4 U	4.5 U	4 U	
Styrene	14,000	135,000	135,000				3.3 U	210 U	250 U	3.4 U	4.1 U	4.5 U	3.3 U	3.9 U	4.4 U	4.5 U	4 U	
Tetrachloroethene (PCE)	500	500	500				3.3 U	210 U	250 U	3.4 U	17	4.5 U	4800	3.9 U	19	4.5 U	4 U	
Toluene	100,000	100,000	100,000				3.3 U	210 U	250 U	3.4 U	5.4	4.5 U	3.3 U	3.9 U	4.4 U	200	410	
Trichloroethene (TCE)	500	500	500				3.3 U	210 U	250 U	3.4 U	6.2	4.5 U	79	3.9 U	4.4 U	4.5 U	4 U	
Xylene (total)	1,000,000	1,000,000	1,000,000				3.3 U	380	250 U	3.4 U	4.1 U	4.5 U	3.3 U	3.9 U	4.4 U	8.2	15	
Semivolatiles- ug/kg																		
Acenaphthene	300,000	1,258,000	1,258,000															
Anthracene	500,000	20,187,000	20,187,000															
Benzo(a)anthracene	5,000	10,100	10,100															
Benzo(a)pyrene	1,640	4,700	4,700															
Benzo(b)fluoranthene	5,000	5,000	5,000															
Benzo(g,h,i)perylene	500,000	500,000	100,000,000															
Benzo(k)fluoranthene	5,000	49,600	49,600															
Chrysene	5,000	152,000	152,000															
Fluoranthene	500,000	9,084,000	9,084,000															
Fluorene	360,000	1,514,000	1,514,000															
Indeno(1,2,3-cd)pyrene	5,000	78,400	111,000															
Naphthalene	100,000	100,000	100,000															
Phenanthrene	110,000	110,000	100,000,000															
Pyrene	500,000	6,677,000	6,677,000															
Pesticides - mg/kg																		
4,4' -DDD	0.660	12.9	12.9	0.99	0.014	0.0046 U												0.057
4,4' -DDE	0.660	9.15	9.15	0.23	0.0042 U	0.0046 U												0.0069
4,4' -DDT	0.660	13.1	13.1	0.33	0.0042 U	0.0046 U												0.0043 U
alpha-BHC	0.660	0.66	0.66															0.0022 U
Chlordane	9.20	9.2	9.2															0.0022 U
Dieldrin	0.660	0.66	0.66															0.0043 U
gamma-Chlordane	9.20	9.2	9.2															0.0022 U
Heptachlor epoxide	1.64	1.65	1.65															0.0022 U

Table 6
Summary of Soil Analytical Data - Wastewater Treatment Facility Area

Location	Type 1 RRS	Non-Residential RRS		WCB-109	WCB-110	WCB-121	WCB-122	WCB-122	WCB-122	WCB-123	WCB-123	WCB-124	WCB-125	WCB-125
Depth (feet bgs)		SS Soil (0-2')	SB Soil (>2')	8-10'	0-2'	7-9'	0-2'	3-5'	7-9'	0-2'	2-4'	0-2'	0-2'	5-7'
Date Sampled		RRS	RRS	4/9/14	4/9/14	5/19/14	5/19/14	5/19/14	5/19/14	5/19/14	5/19/14	5/19/14	5/20/14	5/19/14
Volatiles-ug/kg														
1,2,4-Trichlorobenzene	10,800	10,800	10,800			4.3 U	4.1 U	4.1 U	3.8 U	2.7 U	4.3 U			
1,2-Dichlorobenzene	60,000	60,000	60,000			4.3 U	4.1 U	4.1 U	3.8 U	2.7 U	4.3 U			
1,3-Dichlorobenzene	60,000	60,000	60,000			4.3 U	4.1 U	4.1 U	3.8 U	2.7 U	4.3 U			
1,4-Dichlorobenzene	7,500	7,500	7,500			4.3 U	4.1 U	4.1 U	3.8 U	2.7 U	4.3 U			
Acetone	400,000	400,000	400,000			85 U	82 U	82 U	97	54 U	86 U			
Benzene	500	500	500			4.3 U	4.1 U	4.1 U	3.8 U	2.7 U	4.3 U			
Carbon disulfide	400,000	400,000	400,000			8.5 U	8.2 U	8.2 U	7.5 U	5.4 U	8.6 U			
Chlorobenzene	10,000	10,000	10,000			42	4.1 U	4.1 U	3.8 U	2.7 U	4.3 U			
cis-1,2-Dichloroethene	7,000	7,000	7,000			4.3 U	4.1 U	4.1 U	3.8 U	2.7 U	4.3 U			
Ethylbenzene	70,000	70,000	70,000			4.3 U	4.1 U	4.1 U	3.8 U	2.7 U	4.3 U			
Isopropylbenzene	21,900	85,500	85,500			4.3 U	4.1 U	4.1 U	3.8 U	2.7 U	4.3 U			
Styrene	14,000	135,000	135,000			4.3 U	4.1 U	4.1 U	3.8 U	2.7 U	4.3 U			
Tetrachloroethene (PCE)	500	500	500			4.3 U	4.1 U	4.1 U	3.8 U	2.7 U	4.3 U			
Toluene	100,000	100,000	100,000			4.3 U	4.1 U	4.1 U	3.8 U	2.7 U	4.3 U			
Trichloroethene (TCE)	500	500	500			4.3 U	4.1 U	4.1 U	3.8 U	2.7 U	4.3 U			
Xylene (total)	1,000,000	1,000,000	1,000,000			4.3 U	4.1 U	4.1 U	3.8 U	2.7 U	4.3 U			
Semivolatiles- ug/kg														
Acenaphthene	300,000	1,258,000	1,258,000											
Anthracene	500,000	20,187,000	20,187,000											
Benzo(a)anthracene	5,000	10,100	10,100											
Benzo(a)pyrene	1,640	4,700	4,700											
Benzo(b)fluoranthene	5,000	5,000	5,000											
Benzo(g,h,i)perylene	500,000	500,000	100,000,000											
Benzo(k)fluoranthene	5,000	49,600	49,600											
Chrysene	5,000	152,000	152,000											
Fluoranthene	500,000	9,084,000	9,084,000											
Fluorene	360,000	1,514,000	1,514,000											
Indeno(1,2,3-cd)pyrene	5,000	78,400	111,000											
Naphthalene	100,000	100,000	100,000											
Phenanthrene	110,000	110,000	100,000,000											
Pyrene	500,000	6,677,000	6,677,000											
Pesticides - mg/kg														
4,4' -DDD	0.660	12.9	12.9	0.0045 U	0.0042 U							27	0.021	0.0043 U
4,4' -DDE	0.660	9.15	9.15	0.0045 U	0.0042 U							2.8	0.074	0.0044
4,4' -DDT	0.660	13.1	13.1	0.0045 U	0.0042 U							1	0.21	0.0043 U
alpha-BHC	0.660	0.66	0.66	0.0022 U	0.0021 U							0.1 U	0.0021 U	0.0022 U
Chlordane	9.20	9.2	9.2	0.0022 U	0.0021 U							0.51	0.0065	0.008
Dieldrin	0.660	0.66	0.66	0.0045 U	0.0042 U							0.2 U	0.005	0.0043 U
gamma-Chlordane	9.20	9.2	9.2	0.0022 U	0.0021 U							0.22	0.0042 U	0.0087
Heptachlor epoxide	1.64	1.65	1.65	0.0022 U	0.0021 U							0.1 U	0.0024	0.0022 U

Table 7
Summary of Post-Treatment TCLP VOC Sample Results

		Area 2			Area 4					Area 5	Area 7		
	TCLP Limits	PM-A2S 2-6' 9/3/2014	PM-A2 4-6' 9/9/2014	PMRM-A2 2-6' 9/17/2014	PM-A4 2-7' 8/29/2014	PMRM-A4 2-7' 9/3/2014	PMRM2-A4 2-7' 9/5/2014	PMRM3-A4 2-5' 9/10/2014	PM-A4 5-10' 9/15/2014	PM-A5 0-5' 9/18/2014	PM-A7W 2-5' 8/29/2014	PM-A7 1.5-8' 9/5/2014	PM-A7 8-12' 9/15/2014
1,1-Dichloroethene	0.7	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.005 U	0.10 U	0.10 U	0.10 U
1,2-Dichloroethane	0.5	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.005 U	0.10 U	0.10 U	0.10 U
2-Butanone	200	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.01 U	0.20 U	0.20 U	0.20 U
Benzene	0.5	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.005 U	0.10 U	0.10 U	0.10 U
Carbon tetrachloride	0.5	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.005 U	0.10 U	0.10 U	0.10 U
Chlorobenzene	100	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.005 U	0.10 U	0.10 U	0.10 U
Chloroform	6	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.005 U	0.10 U	0.10 U	0.10 U
Tetrachloroethene	0.7	0.31	1.2	0.7	1.6	0.86	0.83	0.26	0.10 U	0.005	0.10 U	0.10 U	0.10 U
Trichloroethene	0.5	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.005 U	0.10 U	0.10 U	0.10 U
Vinyl chloride	0.2	0.040 U	0.040 U	0.040 U	0.040 U	0.040 U	0.040 U	0.040 U	0.040 U	0.002 U	0.040 U	0.040 U	0.040 U

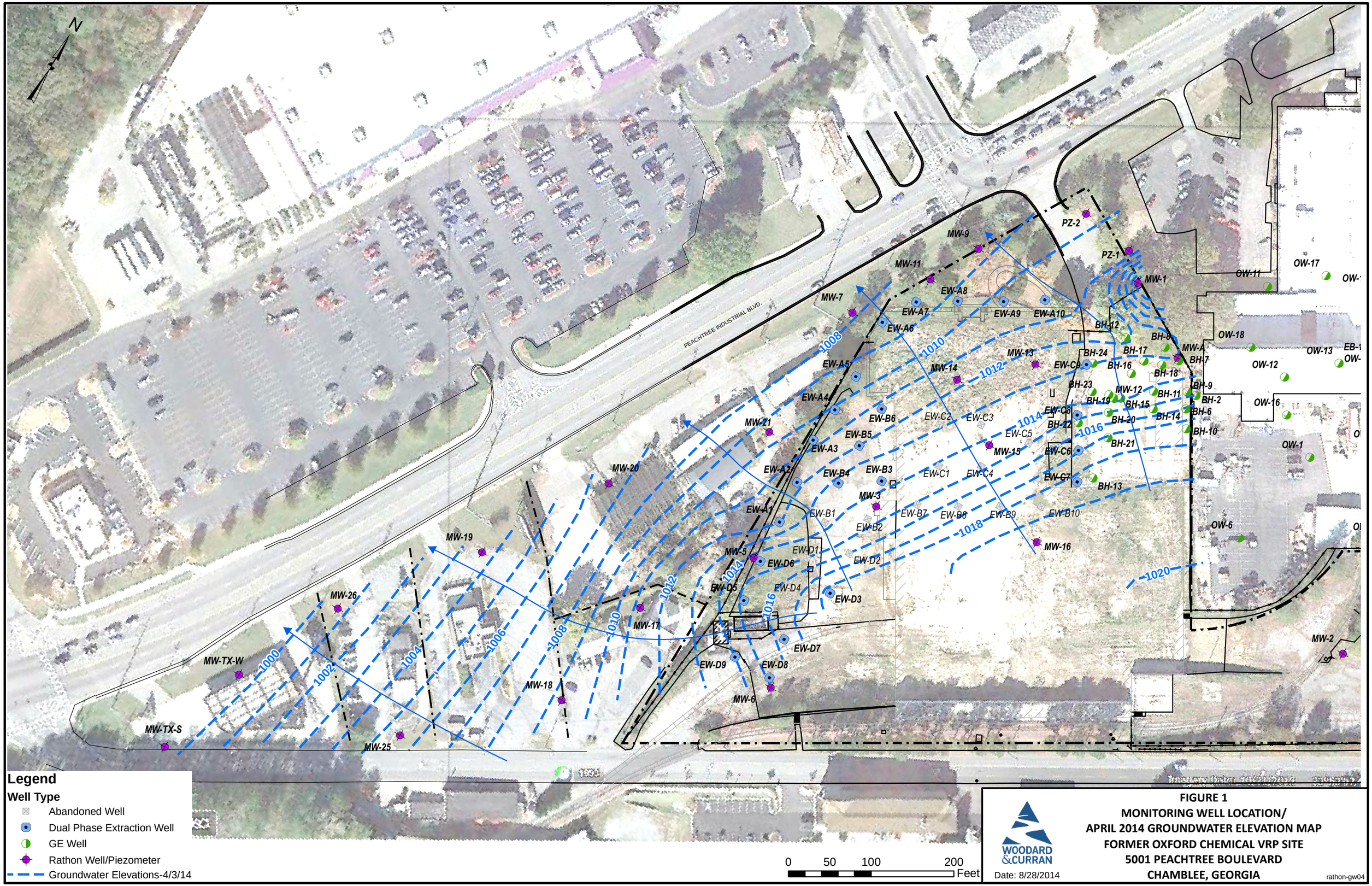
Note: All results in mg/l. Soil batches represented by shading required retreatment and followup testing.

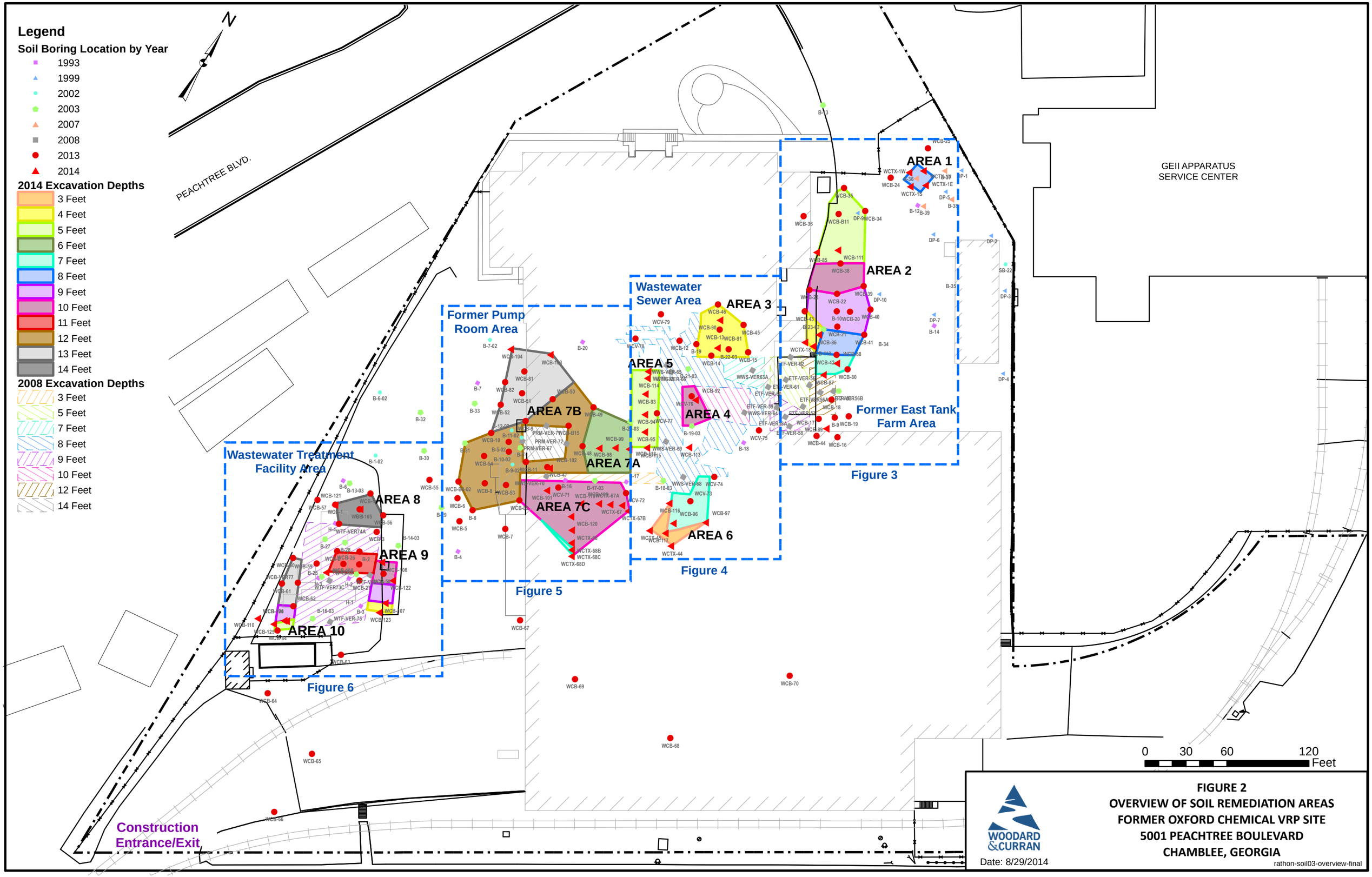
Table 8
Professional Service Hours
January 1, 2014 through August 31, 2014

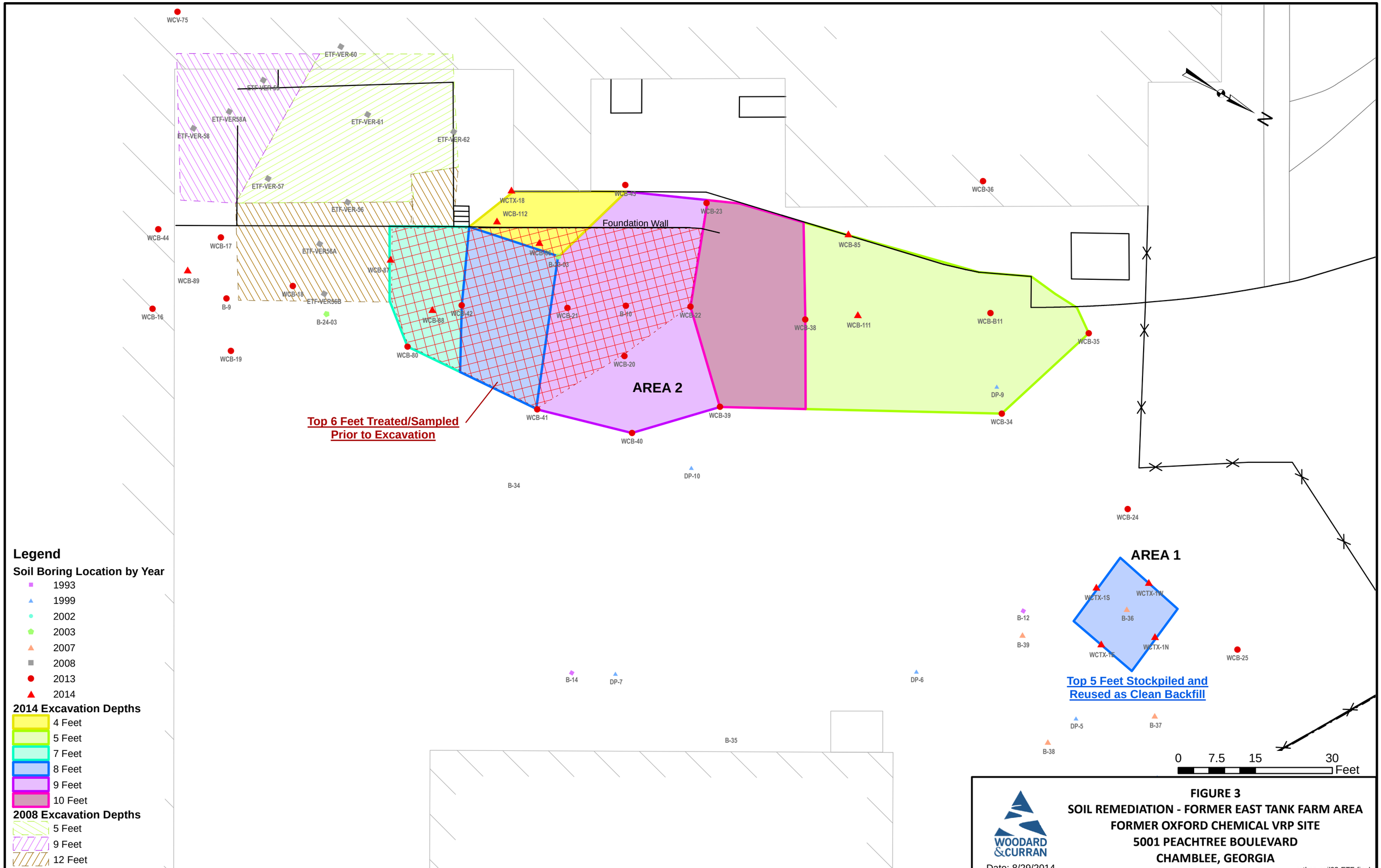
Company	Month/Year	Project Manager / P.G. hours	Total Hours Worked
Woodard & Curran	January 2014	42.25	82.5
Woodard & Curran	February 2014	16.5	28.5
Woodard & Curran	March 2014	13.75	68.25
Woodard & Curran	April 2014	61.75	224.75
Woodard & Curran	May 2014	49.75	158.75
Woodard & Curran	June 2014	40.25	189.5
Woodard & Curran	July 2014	44.75	381.5
Woodard & Curran	August 2014	39.25	571.25
	Total Hours	**308.25**	**1705.00**

Note: The above hours do not include subcontractor hours worked for Woodard & Curran.

Figures


N
PEACHTREE INDUSTRIAL BLVD.
MW-9
MW-11
MW-7
PZ-2
PZ-1
MW-1
EW-A8
EW-A7
EW-A9
EW-A10
EW-A6
BH-12
BH-8
MW-A
BH-7
BH-24
BH-17
EW-C9
BH-16
BH-18
MW-13
MW-14
EW-A5
EW-A4
BH-23
MW-12
BH-11
BH-9
BH-19
BH-15
BH-2
BH-6
EW-C8
BH-22
BH-20
BH-14
BH-10
EW-B6
EW-C2
EW-C3
EW-C5
EW-B5
EW-A3
MW-21
MW-15
EW-C6
BH-21
EW-A2
EW-B4
EW-B3
EW-C1
EW-C4
EW-C7
BH-13
MW-20
MW-3
EW-A1
EW-B1
EW-B7
EW-B8
EW-B9
EW-B10
EW-B2
MW-19
MW-16
MW-5
EW-D1
EW-D6
EW-D2
EW-D5
EW-D4
EW-D3
MW-26
MW-17
EW-D7
MW-TX-W
EW-D9
EW-D8
MW-18
MW-6
MW-TX-S
MW-25
MW-2
OW-17
OW-11
OW-18
OW-13
OW-12
OW-16
OW-1
OW-6
1000
1002
1004
1006
1008
1010
1012
1014
1016
1018
1020
0
50
100
200
Feet
Legend
Well Type
Abandoned Well
Dual Phase Extraction Well
GE Well
Rathon Well/Piezometer
Groundwater Elevations-4/3/14
WOODARD &CURRAN
Date: 8/28/2014
FIGURE 1
MONITORING WELL LOCATION/
APRIL 2014 GROUNDWATER ELEVATION MAP
FORMER OXFORD CHEMICAL VRP SITE
5001 PEACHTREE BOULEVARD
CHAMBLEE, GEORGIA
rathon-gw04


Legend
Soil Boring Location by Year
1993
1999
2002
2003
2007
2008
2013
2014
2014 Excavation Depths
3 Feet
4 Feet
5 Feet
6 Feet
7 Feet
8 Feet
9 Feet
10 Feet
11 Feet
12 Feet
13 Feet
14 Feet
2008 Excavation Depths
3 Feet
5 Feet
7 Feet
8 Feet
9 Feet
10 Feet
12 Feet
14 Feet
N
PEACHTREE BLVD.
GEII APPARATUS SERVICE CENTER
AREA 1
AREA 2
AREA 3
AREA 4
AREA 5
AREA 6
AREA 7A
AREA 7B
AREA 7C
AREA 8
AREA 9
AREA 10
Former Pump Room Area
Wastewater Sewer Area
Former East Tank Farm Area
Wastewater Treatment Facility Area
Figure 3
Figure 4
Figure 5
Figure 6
Construction Entrance/Exit
0 30 60 120
Feet
WOODARD &CURRAN
Date: 8/29/2014
FIGURE 2
OVERVIEW OF SOIL REMEDIATION AREAS
FORMER OXFORD CHEMICAL VRP SITE
5001 PEACHTREE BOULEVARD
CHAMBLEE, GEORGIA
rathon-soil03-overview-final

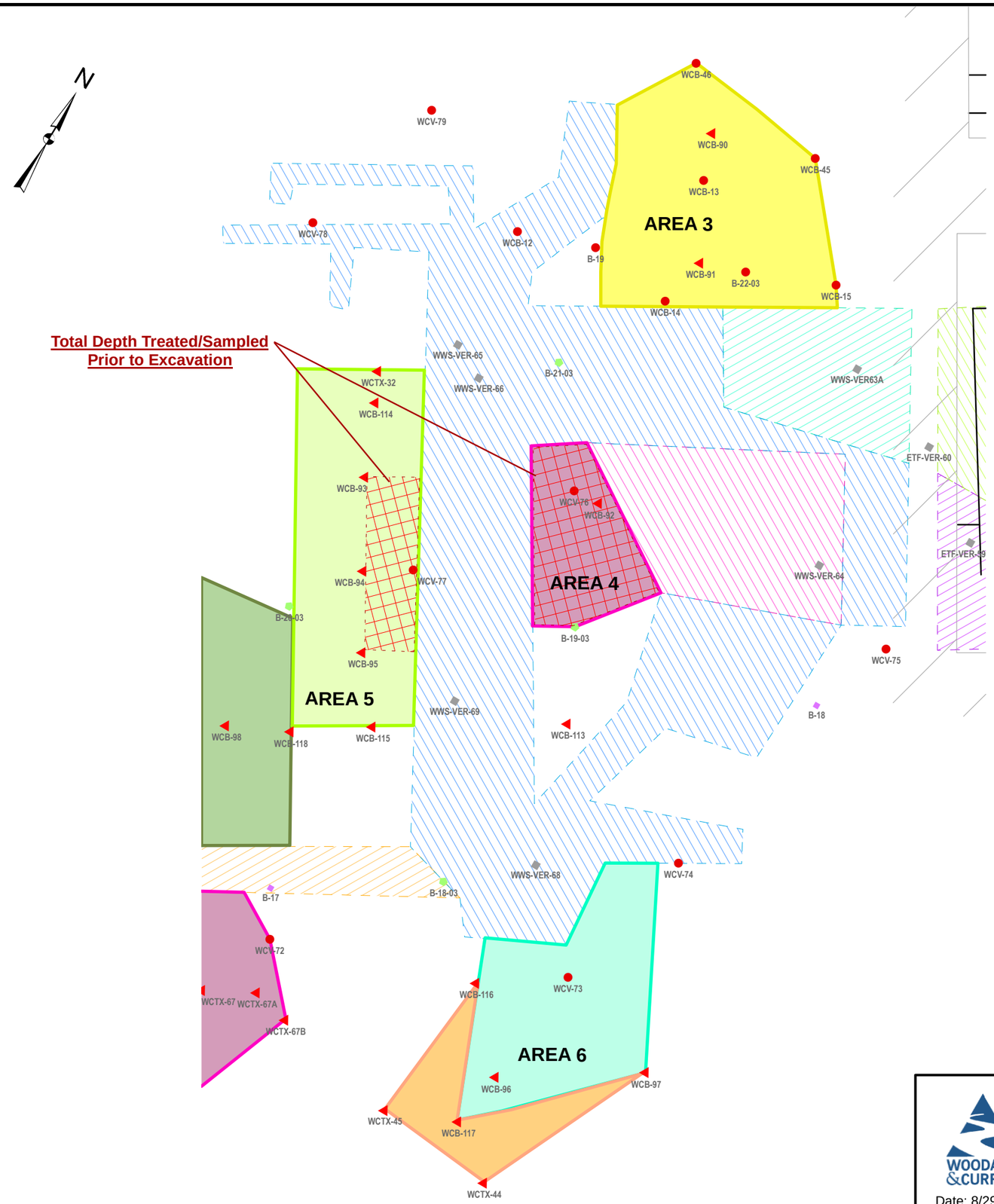


WOODARD &CURRAN

Date: 8/29/2014

FIGURE 3
SOIL REMEDIATION - FORMER EAST TANK FARM AREA
FORMER OXFORD CHEMICAL VRP SITE
5001 PEACHTREE BOULEVARD
CHAMBLEE, GEORGIA

rathon-soil03-ETF-final



Legend

Soil Boring Location by Year

- 1993
- 1999
- 2002
- 2003
- 2007
- 2008
- 2013
- 2014

2014 Excavation Depths

- 3 Feet
- 4 Feet
- 5 Feet
- 6 Feet
- 7 Feet
- 10 Feet

2008 Excavation Depths

- 3 Feet
- 5 Feet
- 7 Feet
- 8 Feet
- 9 Feet
- 10 Feet

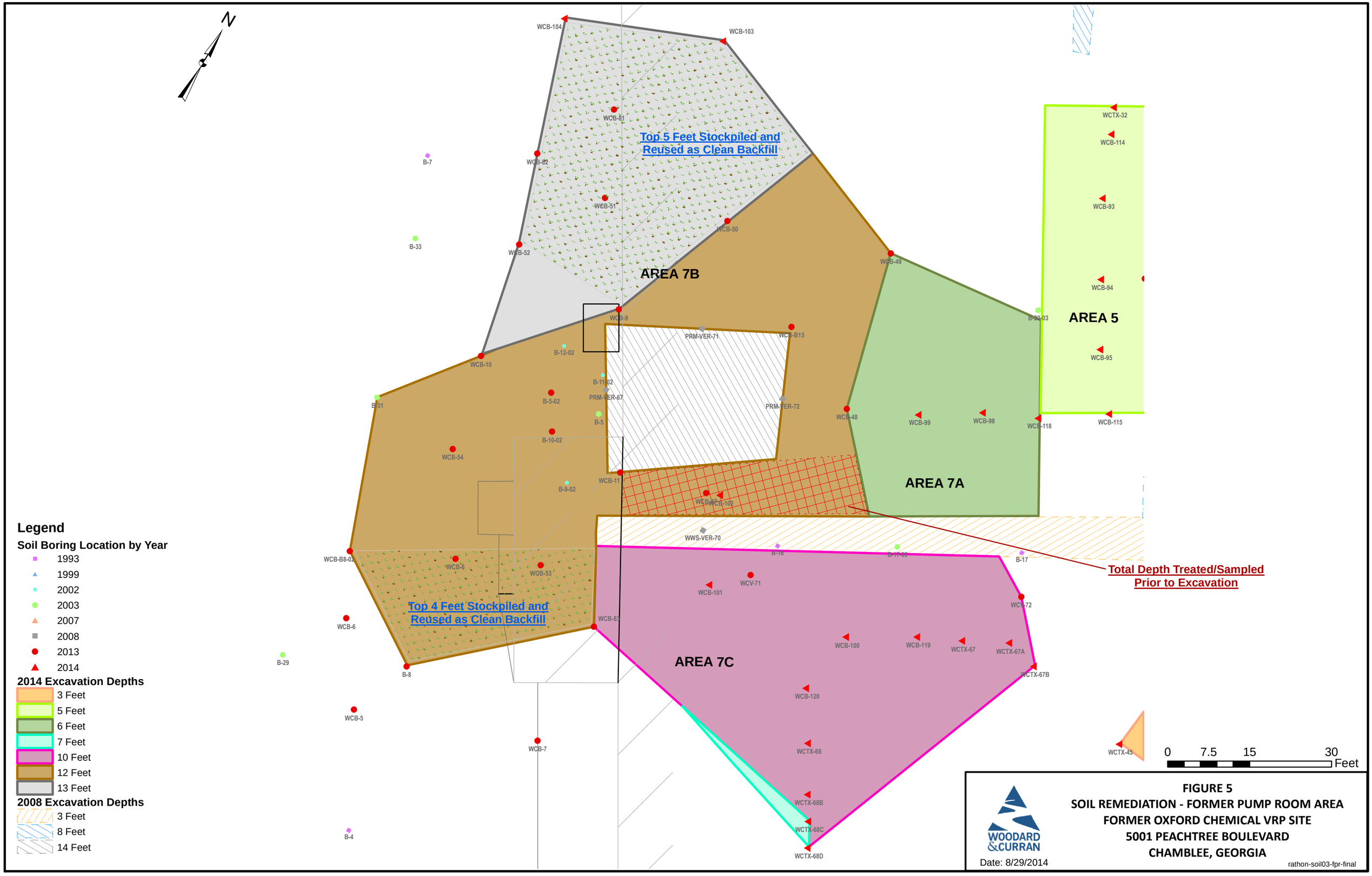
0 9 18 36 Feet

WOODARD &CURRAN

Date: 8/29/2014

FIGURE 4
SOIL REMEDIATION - WASTEWATER SEWER AREA
FORMER OXFORD CHEMICAL VRP SITE
5001 PEACHTREE BOULEVARD
CHAMBLEE, GEORGIA

rathon-soil03-WWS-final


N
WCB-104
WCB-103
WCB-81
Top 5 Feet Stockpiled and Reused as Clean Backfill
B-7
WCB-82
WCB-51
WCB-50
B-33
WCB-52
WCB-49
AREA 7B
WCB-9
PRM-VER-71
WCB-B15
B-12-02
WCB-10
B-11-02
B-5-02
PRM-VER-67
PRM-VER-72
B-31
B-5
WCB-48
B-10-02
WCB-54
WCB-11
B-9-02
WCB-102
WCTX-32
WCB-114
WCB-93
WCB-94
B-00-03
AREA 5
WCB-95
WCB-99
WCB-98
WCB-118
WCB-115
AREA 7A
WWS-VER-70
B-16
B-17-02
B-17
Total Depth Treated/Sampled Prior to Excavation
WCB-B8-02
WCB-8
WCB-53
WCV-71
WCB-101
WCV-72
Top 4 Feet Stockpiled and Reused as Clean Backfill
WCB-6
WCB-83
WCB-100
WCB-119
WCTX-67
WCTX-67A
B-29
B-8
AREA 7C
WCTX-67B
WCB-120
WCB-5
WCB-7
WCTX-68
WCTX-45
WCTX-68B
WCTX-68C
B-4
WCTX-68D
0 7.5 15 30 Feet
Legend
Soil Boring Location by Year
1993
1999
2002
2003
2007
2008
2013
2014
2014 Excavation Depths
3 Feet
5 Feet
6 Feet
7 Feet
10 Feet
12 Feet
13 Feet
2008 Excavation Depths
3 Feet
8 Feet
14 Feet
WOODARD &CURRAN
Date: 8/29/2014
FIGURE 5
SOIL REMEDIATION - FORMER PUMP ROOM AREA
FORMER OXFORD CHEMICAL VRP SITE
5001 PEACHTREE BOULEVARD
CHAMBLEE, GEORGIA
rathon-soil03-fpr-final

WOODARD &CURRAN

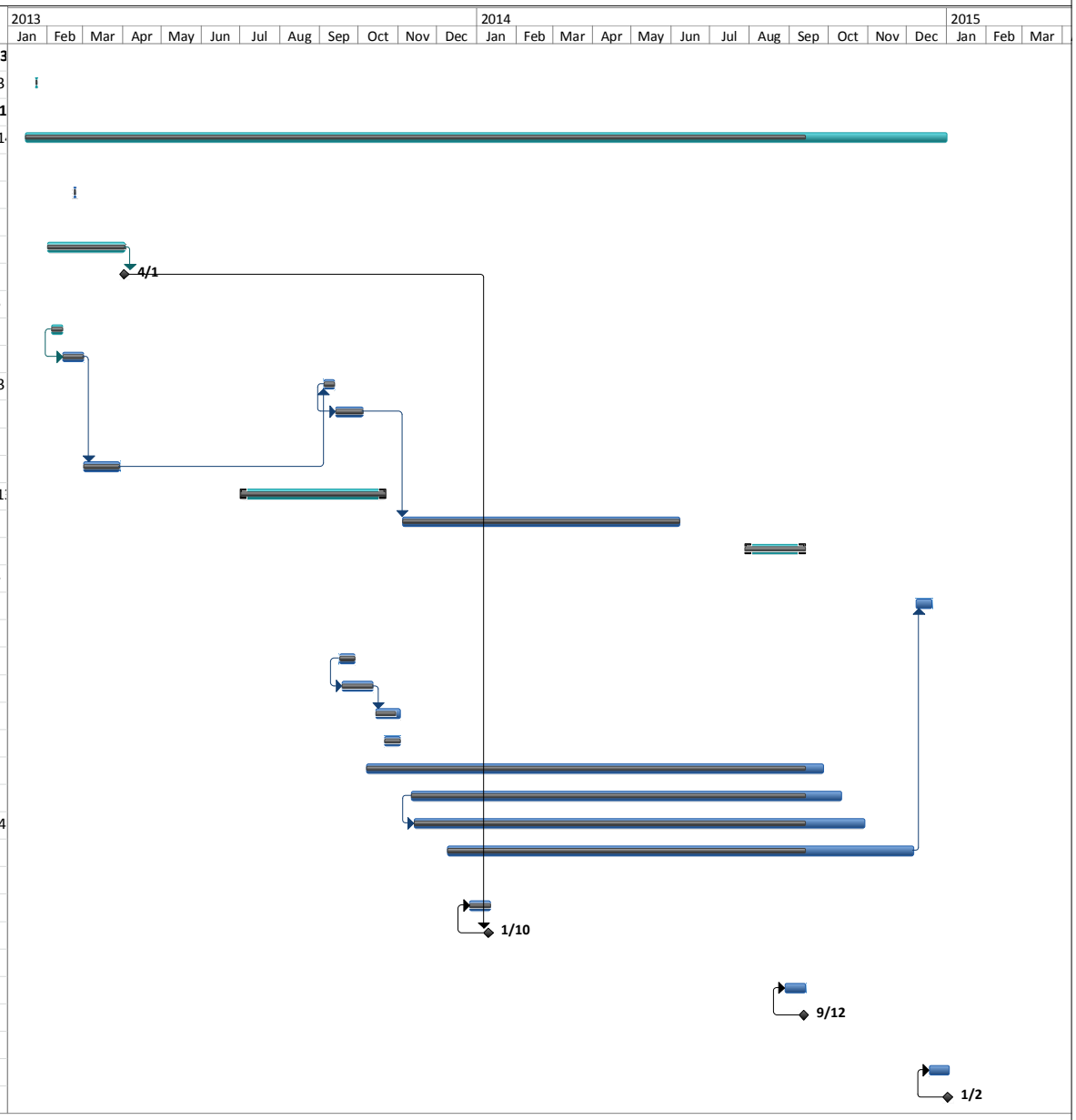
Date: 8/29/2014

FIGURE 6
SOIL REMEDIATION - WASTEWATER TREATMENT FACILITY AREA
FORMER OXFORD CHEMICAL VRP SITE
5001 PEACHTREE BOULEVARD
CHAMBLEE, GEORGIA

rathon-soil03-wwtf-final

Figure 7
VRP Schedule

ID	Task Name	Duration	Start	Finish
1	**Groundskeeping**	**261 days**	**Tue 1/1/13**	**Tue 12/31/13**
2	Fence Installation	1 day	Wed 1/23/13	Wed 1/23/13
3	**GW Capture System O&M and Reporting**	**512 days**	**Tue 1/15/13**	**Wed 12/31/1**
4	Monthly Reporting w/o system operating	512 days	Tue 1/15/13	Wed 12/31/1
5	**EPD Meetings/Interaction**	**1 day**	**Fri 2/22/13**	**Fri 2/22/13**
6	Notify EPD of intent to enter VRP	1 day	Fri 2/22/13	Fri 2/22/13
7	**Submittal of VRP Application**	**42 days**	**Fri 2/1/13**	**Mon 4/1/13**
8	VRP Application Preparation	42 days	Fri 2/1/13	Mon 4/1/13
9	Submittal of VRP Application	0 days	Mon 4/1/13	Mon 4/1/13
10	**Soil Delineation**	**174 days**	**Mon 2/4/13**	**Thu 10/3/13**
11	Fieldwork	7 days	Mon 2/4/13	Tue 2/12/13
12	Laboratory Analysis	12 days	Wed 2/13/13	Thu 2/28/13
13	Additional Soil Delineation Fieldwork	6 days	Wed 9/4/13	Wed 9/11/13
14	Laboratory Analysis	15 days	Fri 9/13/13	Thu 10/3/13
15	**Soil Remediation to Non-Residential RRS Evaluation**	**401 days**	**Fri 3/1/13**	**Fri 9/12/14**
16	Initial Data Evaluation and Plan Preparation	20 days	Fri 3/1/13	Thu 3/28/13
17	Revised Risk Reduction Standards	81 days	Mon 7/1/13	Mon 10/21/1
18	Additional Data Evaluation and Plan Preparation	155 days	Mon 11/4/13	Fri 6/6/14
19	Soil Remediation	35 days	Mon 7/28/14	Fri 9/12/14
20	**Fate and Transport Modeling**	**10 days**	**Mon 12/8/14**	**Fri 12/19/14**
21	Modeling with Delineated GW Data	10 days	Mon 12/8/14	Fri 12/19/14
22	**Shallow GW Delineation**	**320 days**	**Mon 9/16/13**	**Fri 12/5/14**
23	Collection of Property-Wide GW Data	10 days	Mon 9/16/13	Fri 9/27/13
24	Laboratory Analysis	18 days	Wed 9/18/13	Fri 10/11/13
25	GW Data Evaluation	15 days	Mon 10/14/13	Fri 11/1/13
26	Off-Site Delineation Plan Preparation	10 days	Mon 10/21/13	Fri 11/1/13
27	Obtain Offsite Access	255 days	Mon 10/7/13	Fri 9/26/14
28	Conduct Off-Site Delineation of GW	240 days	Mon 11/11/13	Fri 10/10/14
29	Laboratory Analysis	250 days	Wed 11/13/13	Tue 10/28/14
30	GW Data Evaluation	260 days	Mon 12/9/13	Fri 12/5/14
31	**VRP Status Report #1**	**12 days**	**Thu 12/26/13**	**Fri 1/10/14**
32	Preparation	12 days	Thu 12/26/13	Fri 1/10/14
33	Submittal	0 days	Fri 1/10/14	Fri 1/10/14
34	**VRP Status Report #2**	**12 days**	**Thu 8/28/14**	**Fri 9/12/14**
35	Preparation	12 days	Thu 8/28/14	Fri 9/12/14
36	Submittal	0 days	Fri 9/12/14	Fri 9/12/14
37	**VRP Status Report #3**	**12 days**	**Thu 12/18/14**	**Fri 1/2/15**
38	Preparation	12 days	Thu 12/18/14	Fri 1/2/15
39	Submittal	0 days	Fri 1/2/15	Fri 1/2/15



Project: Schedule 091214 VRP
Date: Fri 8/29/14

Task		Project Summary		Inactive Milestone		Manual Summary Rollup		Deadline	
Split		External Tasks		Inactive Summary		Manual Summary		Progress	
Milestone		External Milestone		Manual Task		Start-only			
Summary		Inactive Task		Duration-only		Finish-only			

Appendix A
Groundwater Sampling Logs

LOW FLOW GROUNDWATER MONITORING WELL SAMPLING FORM

WOODARD &CURRAN

2055 Sugarloaf Circle, Suite 175
Duluth, GA 30097
Ph: 770.622.6766
F: 770.396.0095

Project #:	226278.00
Facility Name:	Rathon
Facility Location:	Chamblee Ga.

Well ID:	EW-A1		Date:	9/18/2013
Well Diameter:	4"	(inches)	Measuring Pt:	No
Total Depth (TD):	29.40	(ft)	Personnel:	JDK
Depth to Groundwater (GW):	15.00	(ft)	Weather:	Cloudy, Warm
Water Column Height (CH):	14.4	(ft) = TD - GW	Additional Notes:	
Well Volume:	9.40	(gals)		
Total Liters Purged:	5.60	(Lt)		

Well Volume Factors (gallons/foot of water in well): 0.75-inch (0.023), 1-inch (0.041), 1.5-inch (0.092), 2-inch (0.163), 4-inch (0.653)

Parameter Monitoring Results

Time	Vol. Purged (units: mL/min)	D.T.W. (feet)	Temp. (°C)	Sp. Cond (mS/cm)	D.O. (mg/l)	pH (su)	Orp (mV)	Turb. (NTUs)	Clarity /Color
Instrument Accuracy			+/- 0.5 °C	+/- 5%	+/- 0.5 mg/L	+/- 0.2	+/- 20mV	+/- 10%	Stabilization Criteria
12:02	140	15.2	20.23	0.857	8.1	6.71	-115.9	n/a	SC
12:07	140	15.21	20.49	0.867	7.5	6.48	-88.9	n/a	SC
12:12	140	15.22	20.48	0.868	7.6	6.48	-89.1	n/a	SC
12:17	140	15.2	20.37	0.867	8.1	6.5	-95.1	n/a	SC
12:22	140	15.21	20.33	0.867	7.7	6.54	-92.1	n/a	C

Clarity: VC = very cloudy, CL = Cloudy, SC = slightly cloudy, AC = almost clear, C = clear

Comments:

Low flow sampling method used with a GEO pump peristaltic pump, YSI 556 MPS water checker and a Heron water level tape.

Note: Sampling Method, Sample Interval, Recharge Conditions, Color, Odor, Sediment Content, etc.

Sample Time: 14:42

# Containers/Type	Preservative	Analysis/Method	Field Filter Y/N	Filter size	MS/MSD	Dup ID
2-40 Ml VOA's	HCL	VOC	n	n/a	n/a	n/a
2-1Lt Amber	Neat	SVOC	n	n/a	n/a	n/a
2-1Lt Amber	Neat	Pesticides	n	n/a	n/a	n/a

Note sample time, parameters, duplicates, field blanks, etc.

LOW FLOW GROUNDWATER MONITORING WELL SAMPLING FORM

WOODARD &CURRAN

2055 Sugarloaf Circle, Suite 175
Duluth, GA 30097
Ph: 770.622.6766
F: 770.396.0095

Project #:	226278.00
Facility Name:	Rathon
Facility Location:	Chamblee Ga.

Well ID:	EW-A2		Date:	9/18/2013
Well Diameter:	4"	(inches)	Measuring Pt:	No
Total Depth (TD):	28.90	(ft)	Personnel:	JDK
Depth to Groundwater (GW):	12.60	(ft)	Weather:	Cloudy, Warm
Water Column Height (CH):	16.3	(ft) = TD - GW	Additional Notes:	
Well Volume:	10.64	(gals)		
Total Liters Purged:	2.80	(Lt)		

Well Volume Factors (gallons/foot of water in well): 0.75-inch (0.023), 1-inch (0.041), 1.5-inch (0.092), 2-inch (0.163), 4-inch (0.653)

Parameter Monitoring Results

Time	Vol. Purged (units: mL/min)	D.T.W. (feet)	Temp. (°C)	Sp. Cond (mS/cm)	D.O. (mg/l)	pH (su)	Orp (mV)	Turb. (NTUs)	Clarity /Color
Instrument Accuracy			+/- 0.5 °C	+/- 5%	+/- 0.5 mg/L	+/- 0.2	+/- 20mV	+/- 10%	Stabilization Criteria
14:00	140	12.81	20.95	0.425	21	6.11	-45.4	n/a	CL
14:05	140	12.82	21.09	0.422	13.6	5.88	-26.1	n/a	SC
14:10	140	12.85	20.9	0.42	11.4	5.72	-20.5	n/a	SC
14:15	140	12.86	20.75	0.418	9.9	5.71	-18.8	n/a	AC
14:20	140	12.85	20.67	0.417	9.4	5.76	-22	n/a	AC
14:25	140	12.85	20.73	0.417	8.7	5.83	-26.1	n/a	AC
14:30	140	12.84	20.77	0.416	8.2	5.9	-28.7	n/a	AC
14:35	140	12.84	20.74	0.415	8.2	5.93	-31.6	n/a	AC
14:40	140	12.84	20.77	0.415	8.4	5.93	-31.4	n/a	AC

Clarity: VC = very cloudy, CL = Cloudy, SC = slightly cloudy, AC = almost clear, C = clear

Comments:

Low flow sampling method used with a GEO pump peristaltic pump, YSI 556 MPS water checker and a Heron water level tape.

Note: Sampling Method, Sample Interval, Recharge Conditions, Color, Odor, Sediment Content, etc.

Sample Time: 14:42

# Containers/Type	Preservative	Analysis/Method	Field Filter Y/N	Filter size	MS/MSD	Dup ID
2-40 Ml VOA's	HCL	VOC	n	n/a	n/a	n/a
2-1Lt Amber	Neat	SVOC	n	n/a	n/a	n/a
2-1Lt Amber	Neat	Pesticides	n	n/a	n/a	n/a

Note sample time, parameters, duplicates, field blanks, etc.

LOW FLOW GROUNDWATER MONITORING WELL SAMPLING FORM

WOODARD &CURRAN

2055 Sugarloaf Circle, Suite 175
Duluth, GA 30097
Ph: 770.622.6766
F: 770.396.0095

Project #:	226278.00
Facility Name:	Rathon
Facility Location:	Chamblee Ga.

Well ID:	BH-19		Date:	9/26/2013
Well Diameter:	2"	(inches)	Measuring Pt:	Yes
Total Depth (TD):	16.81	(ft)	Personnel:	JDK
Depth to Groundwater (GW):	8.85	(ft)	Weather:	Clear, Warm
Water Column Height (CH):	7.96	(ft) = TD - GW	Additional Notes:	
Well Volume:	1.30	(gals)		
Total Liters Purged:	7.00	(Lt)		

Well Volume Factors (gallons/foot of water in well): 0.75-inch (0.023), 1-inch (0.041), 1.5-inch (0.092), 2-inch (0.163), 4-inch (0.653)

Parameter Monitoring Results

Time	Vol. Purged (units: mL/min)	D.T.W. (feet)	Temp. (°C)	Sp. Cond (mS/cm)	D.O. (mg/l)	pH (su)	Orp (mV)	Turb. (NTUs)	Clarity /Color
Instrument Accuracy			+/- 0.5 °C	+/- 5%	+/- 0.5 mg/L	+/- 0.2	+/- 20mV	+/- 10%	Stabilization Criteria
12:02	140	8.25	24.7	0.435	11.4	5.55	-35.2	n/a	C
12:07	140	8.28	24.86	0.434	9.1	5.23	-13.9	n/a	C
12:12	140	8.29	24.75	0.435	7.2	5.35	-18	n/a	C
12:17	140	8.29	24.64	0.434	6.8	5.37	-16.1	n/a	C
12:22	140	8.28	24.56	0.437	6.3	5.31	-12	n/a	C
12:27	140	8.28	24.57	0.435	7.1	5.39	-14.7	n/a	C
12:32	140	8.29	24.48	0.434	8.4	5.36	-12.7	n/a	C
12:37	140	8.29	24.56	0.432	7.4	5.42	-14.2	n/a	C
12:42	140	8.29	24.56	0.433	5.8	5.45	-14.9	n/a	C
12:47	140	8.29	24.55	0.433	6.1	5.42	-12.9	n/a	C
12:52	140	8.29	24.72	0.433	6.1	5.46	-13.4	n/a	C

Comments:

Low flow sampling method used with a GEO pump peristaltic pump, YSI 556 MPS water checker and a Heron water level tape.

Note: Sampling Method, Sample Interval, Recharge Conditions, Color, Odor, Sediment Content, etc.

Sample Time: 12:54

# Containers/Type	Preservative	Analysis/Method	Field Filter Y/N	Filter size	MS/MSD	Dup ID
2-40 Ml VOA's	HCL	VOC	n	n/a	n/a	n/a

Note sample time, parameters, duplicates, field blanks, etc.

Appendix B
Analytical Data Reports, 2013-2014 (on CD)

Appendix C
Soil Boring Logs

Soil Boring Log

Boring ID: WCB-85

Project:	Rathon	Elevation:	
Project No:	226278.00	Date started:	4/9/2014
Location:	Chamblee, Ga	Date Completed:	4/9/2014
Driller:	GeoLab	Field Oversight:	BRM/JDK
DTW:		Final Depth:	5

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	Brown clayey sand, gravel at 1'	55%	0-2	
5	Boring Terminated @ 5'			
10				
15				
20				
25				
30				
35				
40				

Soil Boring Log

WOODARD & CURRAN

Boring ID: WCB-86

Project:	Rathon	Elevation:	
Project No:	226278.00	Date started:	4/9/2014
Location:	Chamblee, Ga	Date Completed:	4/9/2014
Driller:	GeoLab	Field Oversight:	BRM/JDK
DTW:		Final Depth:	5

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	Asphalt (3")			
	Brown to gray to white sand and gravel	80%	0.5-2	
	Brown silty sand, wet at 3'			
5	Boring Terminated @ 5'			
10				
15				
20				
25				
30				
35				
40				

Soil Boring Log

Boring ID: WCB-87

Project:	Rathon	Elevation:	
Project No:	226278.00	Date started:	4/9/2014
Location:	Chamblee, Ga	Date Completed:	4/9/2014
Driller:	GeoLab	Field Oversight:	BRM/JDK
DTW:		Final Depth:	5

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	Brown clayey sand	70%	0-2	
			3-5	
5	Boring Terminated @ 5'			
10				
15				
20				
25				
30				
35				
40				▽

Soil Boring Log

WOODARD & CURRAN

Boring ID: WCB-88

Project:	Rathon	Elevation:	
Project No:	226278.00	Date started:	4/9/2014
Location:	Chamblee, Ga	Date Completed:	4/9/2014
Driller:	GeoLab	Field Oversight:	BRM/JDK
DTW:		Final Depth:	10

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	concrete (6")			
	gray sand and gravel	65%		
	dark brown sandy clay			
5	brown stiff sandy clay		5-7	
	gray silty sand	100%		wet at 7'
10	Boring Terminated @ 10'			
15				
20				
25				
30				
35				
40				

Soil Boring Log

WOODARD & CURRAN

Boring ID: WCB-89

Project:	Rathon	Elevation:	
Project No:	226278.00	Date started:	4/9/2014
Location:	Chamblee, Ga	Date Completed:	4/9/2014
Driller:	GeoLab	Field Oversight:	BRM/JDK
DTW:		Final Depth:	10

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	concrete (6")			
	light gray sand			
	light brown stiff sandy clay	70%	3-5	
5	light bown to white to pink clayey sand	100%	5-7	
			7-9	wet at 9'
10	Boring Terminated @ 10'			
15				
20				
25				
30				
35				
40				▽

Soil Boring Log

WOODARD & CURRAN

Boring ID: WCB-90

Project:	Rathon	Elevation:	
Project No:	226278.00	Date started:	4/9/2014
Location:	Chamblee, Ga	Date Completed:	4/9/2014
Driller:	GeoLab	Field Oversight:	BRM/JDK
DTW:		Final Depth:	10

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	dark brown to gray silty sand and gravel	75%		
	reddish brown stiff clay, trace sand		4-6	
5		95%	6-8	
10	Boring Terminated @ 10'			
15				
20				
25				
30				
35				
40				

Soil Boring Log

Boring ID: WCB-91

Project:	Rathon	Elevation:	
Project No:	226278.00	Date started:	4/9/2014
Location:	Chamblee, Ga	Date Completed:	4/9/2014
Driller:	GeoLab	Field Oversight:	BRM/JDK
DTW:		Final Depth:	10

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	brown sand and gravel	100%		
	reddish brown stiff clay			
5			4-6	
			6-8	
	light brown sandy clay	90%		
10	Boring Terminated @ 10'			
15				
20				
25				
30				
35				
40				

Soil Boring Log

Boring ID: WCB-92

Project:	Rathon	Elevation:	
Project No:	226278.00	Date started:	4/9/2014
Location:	Chamblee, Ga	Date Completed:	4/9/2014
Driller:	GeoLab	Field Oversight:	BRM/JDK
DTW:		Final Depth:	15

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	Brown sand and gravel	80%		
	brown stiff sandy clay to clayey sand			
5		100%	6-8	
			8-10	
10		100%		wet at 10'
15	Boring Terminated @ 15'			
20				
25				
30				
35				
40				

Soil Boring Log

WOODARD & CURRAN

Boring ID: WCB-93

Project:	Rathon	Elevation:	
Project No:	226278.00	Date started:	4/9/2014
Location:	Chamblee, Ga	Date Completed:	4/9/2014
Driller:	GeoLab	Field Oversight:	BRM/JDK
DTW:		Final Depth:	5

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	Brown to gray silty sand	100%	0-2	
	reddish brown stiff sandy clay		3-5	
5	Boring Terminated @ 5'			
10				
15				
20				
25				
30				
35				
40				

Soil Boring Log

WOODARD & CURRAN

Boring ID: WCB-94

Project:	Rathon	Elevation:	
Project No:	226278.00	Date started:	4/9/2014
Location:	Chamblee, Ga	Date Completed:	4/9/2014
Driller:	GeoLab	Field Oversight:	BRM/JDK
DTW:		Final Depth:	10

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	Brown to gray sand and gravel	100%		
	reddish brown stiff sandy clay		2-4	
5			5-7	
	light brown sandy clay	90%		
10	Boring Terminated @ 10'			
15				
20				
25				
30				
35				
40				

Soil Boring Log

Boring ID: WCB-95

Project:	Rathon	Elevation:	
Project No:	226278.00	Date started:	4/9/2014
Location:	Chamblee, Ga	Date Completed:	4/9/2014
Driller:	GeoLab	Field Oversight:	BRM/JDK
DTW:		Final Depth:	5

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	Brown to gray sand and gravel	90%	0-2	
	reddish brown stiff sandy clay		3-5	
5	Boring Terminated @ 5'			
10				
15				
20				
25				
30				
35				
40				

Soil Boring Log

WOODARD & CURRAN

Boring ID: WCB-96

Project:	Rathon	Elevation:	
Project No:	226278.00	Date started:	4/9/2014
Location:	Chamblee, Ga	Date Completed:	4/9/2014
Driller:	GeoLab	Field Oversight:	BRM/JDK
DTW:		Final Depth:	10

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	Brown to gray sand and gravel	70%		
			2-4	
	reddish brown to gray silty sand, saprolites			
5			5-7	
	dark brown to gray silty sand, saprolites	70%		
10	Boring Terminated @ 10'			
15				
20				
25				
30				
35				
40				▽

Soil Boring Log

WOODARD & CURRAN

Boring ID: WCB-97

Project:	Rathon	Elevation:	
Project No:	226278.00	Date started:	4/9/2014
Location:	Chamblee, Ga	Date Completed:	4/9/2014
Driller:	GeoLab	Field Oversight:	BRM/JDK
DTW:		Final Depth:	10

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	reddish brown clayey sand to sandy clay	70%	0-2	
	light brown to gray silty sand, saprolites		2-4	
5		90%	5-7	
10	Boring Terminated @ 10'			
15				
20				
25				
30				
35				
40				

Soil Boring Log

WOODARD & CURRAN

Boring ID: WCB-98

Project:	Rathon	Elevation:	
Project No:	226278.00	Date started:	4/9/2014
Location:	Chamblee, Ga	Date Completed:	4/9/2014
Driller:	GeoLab	Field Oversight:	BRM/JDK
DTW:		Final Depth:	10

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	Brown to gray clayey sand	60%		
			2-4	
	reddish brown stiff sandy clay			
5				
		90%	6-8	
	reddish brown clayey sand			
	light gray sandy clay			
10	Boring Terminated @ 10'			
15				
20				
25				
30				
35				
40				▽

Soil Boring Log

Boring ID: WCB-99

Project:	Rathon	Elevation:	
Project No:	226278.00	Date started:	4/9/2014
Location:	Chamblee, Ga	Date Completed:	4/9/2014
Driller:	GeoLab	Field Oversight:	BRM/JDK
DTW:		Final Depth:	10

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	brown to gray sand and gravel	55%		
	dark brown sandy clay			
5	reddish brown sandy clay	90%	6-8	
			8-10	
10	Boring Terminated @ 10'			
15				
20				
25				
30				
35				
40				

Soil Boring Log

WOODARD & CURRAN

Boring ID: WCB-100

Project:	Rathon	Elevation:	
Project No:	226278.00	Date started:	4/9/2014
Location:	Chamblee, Ga	Date Completed:	4/9/2014
Driller:	GeoLab	Field Oversight:	BRM/JDK
DTW:		Final Depth:	15

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	Brown to gray clayey sand	80%	2-4	
5	reddish brown sandy clay	100%	6-8	
	light brown stiff sandy clay			
10	reddish brown stiff sandy clay, moist	100%	10-12	wet at 12'
	light brown to gray clayey sand, saprolites			
15	Boring Terminated @ 15'			
20				
25				
30				
35				
40				

Soil Boring Log

WOODARD & CURRAN

Boring ID: WCB-101

Project:	Rathon	Elevation:	
Project No:	226278.00	Date started:	4/9/2014
Location:	Chamblee, Ga	Date Completed:	4/9/2014
Driller:	GeoLab	Field Oversight:	BRM/JDK
DTW:		Final Depth:	15

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	light brown to gray silty sand	80%		
	reddish brown stiff sandy clay			
5	light brown sandy clay	100%	8-10	
10	light gray sandy clay, wet	100%		wet at 10'
15	Boring Terminated @ 15'			
20				
25				
30				
35				
40				

Soil Boring Log

Boring ID: WCB-102

Project:	Rathon	Elevation:	
Project No:	226278.00	Date started:	4/9/2014
Location:	Chamblee, Ga	Date Completed:	4/9/2014
Driller:	GeoLab	Field Oversight:	BRM/JDK
DTW:		Final Depth:	10

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	brown to gray sand and gravel	70%		
	brown stiff sandy clay, organic odor at 5-7'			
5			5-7	
	light brown stiff sandy clay	90%		
10	Boring Terminated @ 10'			
15				
20				
25				
30				
35				
40				

Soil Boring Log

WOODARD & CURRAN

Boring ID: WCB-103

Project:	Rathon	Elevation:	
Project No:	226278.00	Date started:	4/9/2014
Location:	Chamblee, Ga	Date Completed:	4/9/2014
Driller:	GeoLab	Field Oversight:	BRM/JDK
DTW:		Final Depth:	10

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	brown clayey sand and gravel	60%	0-2	
	brown sandy clay		3-5	
5	dark brown sandy clay, cobbles at 5.5'	100%		
	reddish brown stiff sandy clay		8-10	
10	Boring Terminated @ 10'			
15				
20				
25				
30				
35				
40				

Soil Boring Log

WOODARD & CURRAN

Boring ID: WCB-104

Project:	Rathon	Elevation:	
Project No:	226278.00	Date started:	4/9/2014
Location:	Chamblee, Ga	Date Completed:	4/9/2014
Driller:	GeoLab	Field Oversight:	BRM/JDK
DTW:		Final Depth:	10

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	asphalt (3")			
	dark brown sand and gravel		0-2	
	reddish brown sandy clay	70%		
			3-5	
5				
		80%		
			8-10	damp at 9'
10	Boring Terminated @ 10'			
15				
20				
25				
30				
35				
40				▽

Soil Boring Log

WOODARD & CURRAN

Boring ID: WCB-105

Project:	Rathon	Elevation:	
Project No:	226278.00	Date started:	4/9/2014
Location:	Chamblee, Ga	Date Completed:	4/9/2014
Driller:	GeoLab	Field Oversight:	BRM/JDK
DTW:		Final Depth:	10

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	dark brown silty sand and gravel			
	dark brown stiff sandy clay	60%	0-2	
			3-5	
5	rock fragments at 5-5.5'			
	light brown sandy clay	70%	6-8	
10	Boring Terminated @ 10'			
15				
20				
25				
30				
35				
40				

Soil Boring Log

WOODARD & CURRAN

Boring ID: WCB-106

Project:	Rathon	Elevation:	
Project No:	226278.00	Date started:	4/9/2014
Location:	Chamblee, Ga	Date Completed:	4/9/2014
Driller:	GeoLab	Field Oversight:	BRM/JDK
DTW:		Final Depth:	10

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	brown sandy clay, some rock fragments	65%	0-2	
5	light brown clayey sand		4-6	
	brown to gray clayey sand, saprolites	90%	8-10	
10	Boring Terminated @ 10'			
15				
20				
25				
30				
35				
40				▽

Soil Boring Log

WOODARD & CURRAN

Boring ID: WCB-107

Project:	Rathon	Elevation:	
Project No:	226278.00	Date started:	4/9/2014
Location:	Chamblee, Ga	Date Completed:	4/9/2014
Driller:	GeoLab	Field Oversight:	BRM/JDK
DTW:		Final Depth:	10

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	brown clayey silty sand			
	light gray sand	70%	0-2	
	brown stiff sandy clay			
	brown to red clayey sand, saprolites			
5			4-6	
		90%		
			8-10	
10	Boring Terminated @ 10'			
15				
20				
25				
30				
35				
40				

Soil Boring Log

Boring ID: WCB-108

Project:	Rathon	Elevation:	
Project No:	226278.00	Date started:	4/9/2014
Location:	Chamblee, Ga	Date Completed:	4/9/2014
Driller:	GeoLab	Field Oversight:	BRM/JDK
DTW:		Final Depth:	15

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	brown clayey sand	75%		
	brown sandy clay			
5	brown to gray clayey sand	60%	8-10	
10	light brown to gray clayey sand	95%	11-13	
15	Boring Terminated @ 15'			
20				
25				
30				
35				
40				

Soil Boring Log

WOODARD & CURRAN

Boring ID: WCB-109

Project:	Rathon	Elevation:	
Project No:	226278.00	Date started:	4/9/2014
Location:	Chamblee, Ga	Date Completed:	4/9/2014
Driller:	GeoLab	Field Oversight:	BRM/JDK
DTW:		Final Depth:	10

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	brown sandy clay to clayey sand, rock fragments	60%		
	light brown to red stiff sandy clay			
5		80%	5-7	
			8-10	
10	Boring Terminated @ 10'			
15				
20				
25				
30				
35				
40				

Soil Boring Log

Boring ID: WCB-110

Project:	Rathon	Elevation:	
Project No:	226278.00	Date started:	4/9/2014
Location:	Chamblee, Ga	Date Completed:	4/9/2014
Driller:	GeoLab	Field Oversight:	BRM/JDK
DTW:		Final Depth:	5

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	brown silty sand			
	light brown to reddish brown sandy clay, stiff	70%	0-2	
5	Boring Terminated @ 5'			
10				
15				
20				
25				
30				
35				
40				

Soil Boring Log

WOODARD & CURRAN

Boring ID: WCB-111

Project:	Rathon	Elevation:	
Project No:	226278.00	Date started:	5/19/2014
Location:	Chamblee, Ga	Date Completed:	5/19/2014
Driller:	GeoLab	Field Oversight:	JDK
DTW:		Final Depth:	10'

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	Concrete			
	Tan Red SILT firm, fine and moist	80%		
	Black Tan sandy SILT firm, fine-med and moist			
5	Tan Brown sandy SILT firm, fine-med and moist with some wood in the sleeve	80%	5-7'	
	Tan Brown sandy SILT firm, fine-med and moist			
10	Boring Terminated @ 10'			
15				
20				
25				
30				
35				
40				

Soil Boring Log

WOODARD & CURRAN

Boring ID: WCB-112

Project:	Rathon	Elevation:	
Project No:	226278.00	Date started:	5/19/2014
Location:	Chamblee, Ga	Date Completed:	5/19/2014
Driller:	GeoLab	Field Oversight:	JDK
DTW:		Final Depth:	5'

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	Asphalt w/some gravel			
	Orange Tan Sandy SILT firm, fine-med and damp	80%	0-2'	
			4-5'	
5	Boring Terminated @ 5'			
10				
15				
20				
25				
30				
35				
40				

Soil Boring Log

WOODARD & CURRAN

Boring ID: WCB-113

Project:	Rathon	Elevation:	
Project No:	226278.00	Date started:	5/19/2014
Location:	Chamblee, Ga	Date Completed:	5/19/2014
Driller:	GeoLab	Field Oversight:	JDK
DTW:		Final Depth:	10'

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	Brown Gray Sandy CLAY fill w/gravel	100%	0-2'	
	Orange Brown Sandy CLAY		3-5'	
5	Tan Gray Sandy CLAY	100%	7-9'	
10	Boring Terminated @ 10'			
15				
20				
25				
30				
35				
40				▽

Soil Boring Log

WOODARD & CURRAN

Boring ID: WCB-114

Project:	Rathon	Elevation:	
Project No:	226278.00	Date started:	5/19/2014
Location:	Chamblee, Ga	Date Completed:	5/19/2014
Driller:	GeoLab	Field Oversight:	JDK
DTW:		Final Depth:	10'

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	Brown Gray Silty SAND firm, fine-med moist	65%	0-2'	
	Red Brown Silty Sandy CLAY		3-5'	
5	Reddish Sandy CLAY firm, fine-med damp	80%	5-7'	
	Reddish Silty SAND firm, fine-med moist			
10	Boring Terminated @ 10'			
15				
20				
25				
30				
35				
40				▽

Soil Boring Log

WOODARD & CURRAN

Boring ID: WCB-115

Project:	Rathon	Elevation:	
Project No:	226278.00	Date started:	5/19/2014
Location:	Chamblee, Ga	Date Completed:	5/19/2014
Driller:	GeoLab	Field Oversight:	JDK
DTW:		Final Depth:	10'

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	Brown Gray Sandy gravel	70%	0-2'	
	Red Brown stiff sandy CLAY		3-5'	
5	Tan Red Silty SAND losse,fine-med moist	95%	5-7'	
	Tan White Silty SAND loose, fine-med wet at bottom of 10' push			
10	Boring Terminated @ 10'			
15				
20				
25				
30				
35				
40				▽

Soil Boring Log

WOODARD & CURRAN

Boring ID: WCB-116

Project:	Rathon	Elevation:	
Project No:	226278.00	Date started:	5/19/2014
Location:	Chamblee, Ga	Date Completed:	5/19/2014
Driller:	GeoLab	Field Oversight:	JDK
DTW:		Final Depth:	10'

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	Gravel fill			
	Tan Red SILT firm, fine dry	95%	0-2'	
			3-5'	
5	SAA			
	Tan Red Pink w/Black spec SILT firm,fine moist	95%	6-8'	
10	Boring Terminated @ 10'			
15				
20				
25				
30				
35				
40				

Soil Boring Log

WOODARD & CURRAN

Boring ID: WCB-117

Project:	Rathon	Elevation:	
Project No:	226278.00	Date started:	5/19/2014
Location:	Chamblee, Ga	Date Completed:	5/19/2014
Driller:	GeoLab	Field Oversight:	JDK
DTW:		Final Depth:	10'

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	Brown Gray Sand Gravel	70%	0-2'	
	Reddish Brown gray Silty SAND Sapralite		3-5'	
5	SAA	95%	6-8'	
	DK Brown Gray Silty SAND Sapralite			
10	Boring Terminated @ 10'			
15				
20				
25				
30				
35				
40				

Soil Boring Log

WOODARD & CURRAN

Boring ID: WCB-118

Project:	Rathon	Elevation:	
Project No:	226278.00	Date started:	5/19/2014
Location:	Chamblee, Ga	Date Completed:	5/19/2014
Driller:	GeoLab	Field Oversight:	JDK
DTW:		Final Depth:	5'

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	Brown Gray Calyey SAND	75%	0-2'	
	Reddish Brown Sandy CLAY stiff		3-5'	
5	Boring Terminated @ 5'			
10				
15				
20				
25				
30				
35				
40				▽

Soil Boring Log

WOODARD & CURRAN

Boring ID: WCB-119

Project:	Rathon	Elevation:	
Project No:	226278.00	Date started:	5/19/2014
Location:	Chamblee, Ga	Date Completed:	5/19/2014
Driller:	GeoLab	Field Oversight:	JDK
DTW:		Final Depth:	10'

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	Brown Gray Clayey SAND	90%	0-2'	
			3-5'	
5	Reddish Drown Sandy CLAY	100%		
			7-9'	
	Lt drown Sandy CLAY stiff			
10	Boring Terminated @ 10'			
15				
20				
25				
30				
35				
40				

Soil Boring Log

WOODARD & CURRAN

Boring ID: WCB-120

Project:	Rathon	Elevation:	
Project No:	226278.00	Date started:	5/19/2014
Location:	Chamblee, Ga	Date Completed:	5/19/2014
Driller:	GeoLab	Field Oversight:	JDK
DTW:		Final Depth:	10'

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	Brown Gray Clayey SAND	65%	0-2'	
			3-5'	
5	Reddish Drown Sandy CLAY	100%		
			7-9'	
	Lt drown Sandy CLAY stiff			
10	Boring Terminated @ 10'			
15				
20				
25				
30				
35				
40				▽

Soil Boring Log

WOODARD & CURRAN

Boring ID: WCB-121

Project:	Rathon	Elevation:	
Project No:	226278.00	Date started:	5/19/2014
Location:	Chamblee, Ga	Date Completed:	5/19/2014
Driller:	GeoLab	Field Oversight:	JDK
DTW:		Final Depth:	10'

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	Tan Gray to Light Brown Sandy Clay FILL w/silty clay layers DK Gray @ 4.5-5'	75%		
5	Orange Tan Sandy CLAY	70%	7-9'	
10	Boring Terminated @ 10'			
15				
20				
25				
30				
35				
40				

Soil Boring Log

WOODARD & CURRAN

Boring ID: WCB-122

Project:	Rathon	Elevation:	
Project No:	226278.00	Date started:	5/19/2014
Location:	Chamblee, Ga	Date Completed:	5/19/2014
Driller:	GeoLab	Field Oversight:	JDK
DTW:		Final Depth:	10'

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	Gray Brown Silty CLAY Fill	100%	0-2'	
	Orange Tan Sandy CLAY		3-5'	
5	White Pink Sandy CLAY	100%		
	Orange Tan Sandy CLAY		7-9'	
	Tan White Sandy CLAY			
10	Boring Terminated @ 10'			
15				
20				
25				
30				
35				
40				

Soil Boring Log

WOODARD & CURRAN

Boring ID: WCB-123

Project:	Rathon	Elevation:	
Project No:	226278.00	Date started:	5/19/2014
Location:	Chamblee, Ga	Date Completed:	5/19/2014
Driller:	GeoLab	Field Oversight:	JDK
DTW:		Final Depth:	5'

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	Brown Clayey Silty SAND	75%	0-2'	
	Reddish Brown Sandy CLAY Saprolite		2-4'	
5	Boring Terminated @ 5'			
10				
15				
20				
25				
30				
35				
40				

Soil Boring Log

Boring ID: WCB-124

Project:	Rathon	Elevation:	
Project No:	226278.00	Date started:	5/19/2014
Location:	Chamblee, Ga	Date Completed:	5/19/2014
Driller:	GeoLab	Field Oversight:	JDK
DTW:		Final Depth:	5'

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	Brown Clayey Silty SAND	75%	0-2'	
	Reddish Brown Sandy CLAY Saprolite			
5	Boring Terminated @ 5'			
10				
15				
20				
25				
30				
35				
40				

Soil Boring Log

WOODARD & CURRAN

Boring ID: WCB-125

Project:	Rathon	Elevation:	
Project No:	226278.00	Date started:	5/19/2014
Location:	Chamblee, Ga	Date Completed:	5/19/2014
Driller:	GeoLab	Field Oversight:	JDK
DTW:		Final Depth:	10'

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	Brown Sandy CLAY to Clayey SAND	80%	0-2'	
5	Lt Brown to Red Sandy CLAY stiff	90%	5-7'	
10	Boring Terminated @ 10'			
15				
20				
25				
30				
35				
40				

Appendix D
Soil Remediation Photographs

PROJECT PHOTOS

Excavation activities – Area 7

Stockpiling clean backfill – Southeast end of property

Construction entrance/exit – Cleaning trucks before entering street

Dust suppression being conducted

Backfilling of a completed excavation Area 7B

Loaded trucks in line for inspection, decontamination and manifesting before exiting the property

Completed excavation Area 6 and excavation and loading of Area 7C

Debris encountered during the excavation of Area 10A (former western tank farm)

Excavation and loading of Area 7C

Large pieces of concrete encountered in excavation Area 7A

Excavation of a clean overburden zone to reach impacted soil in Area 7B

Excavation at Area 8

Placing backfill at Area 7B

Excavation at Area 5 (non-hazardous portion)

Removing surface concrete at Area 2A

Mixing of soils at the south end of Area 2 with potassium permanganate.

Mixing of treated soils at Area 4 with quick-lime.

Leveled backfill stockpile area in southeast corner of site.

Appendix E
Soil Disposal Manifests (on CD)

Appendix F
Perimeter Air Monitoring Records

WOODARD &CURRAN

Perimeter Air Monitoring Log
Former Oxford Chemical
2014 Soil Remediation

Date: 7/28/14

Day of Week: Monday

Testing Time			A		B		C		D		E		F		G		H	
Start	End	By	PID	Dust	PID	Dust	PID	Dust	PID	Dust	PID	Dust	PID	Dust	PID	Dust	PID	Dust
7:15	7:30	SJB/JDK	0.1	0.0	0.2	0.0	0.2	0.0	0.2	0.0	0.2	0.0	0.2	0.0	0.2	0.0	0.2	0.0
14:45	15:00	SJB	0.2	0	0.2	0	0.3	0	0.2	0	0.3	0	0.3	0	0.3	0	0.3	0
16:00	16:15	SJB	0.2	0	0.3	0	0.3	0	0.3	0	0.4	0	0.4	0.0	0.2	0	0.1	0

Active Work Areas/Activities:

Decon Pad

Weather Conditions (temp, wind speed/dir, precip, etc):

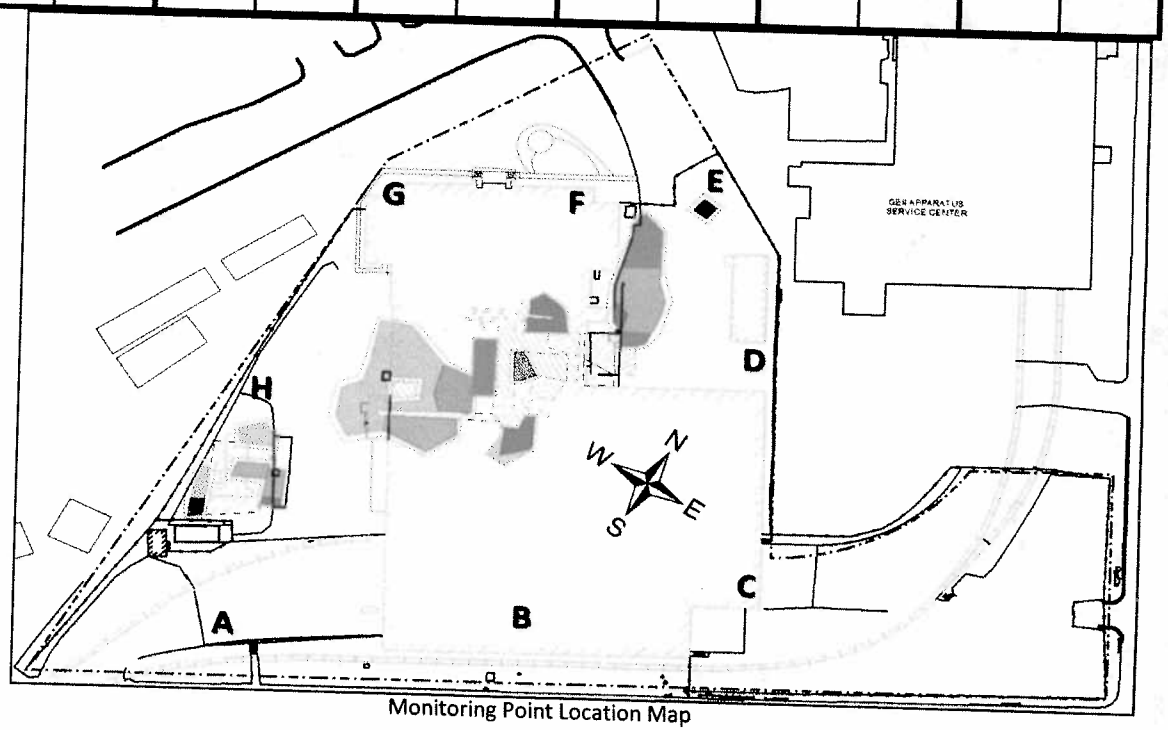
AM: High 70s - Mid 80s, 6 MPH / W

PM:

Comments/Corrective Measures:

Meter Calibration Date:

PID: _____ Dust: _____



Monitoring Point Location Map

WOODARD & CURRAN

Perimeter Air Monitoring Log
Former Oxford Chemical
2014 Soil Remediation

Date: 7/29/14

Day of Week: Tuesday

Testing Time			A		B		C		D		E		F		G		H	
Start	End	By	PID	Dust	PID	Dust	PID	Dust	PID	Dust	PID	Dust	PID	Dust	PID	Dust	PID	Dust
0715	0730	SJB	0.2	0	0.2	0	0.2	0	0.2	0	0.2	0	0.2	0	0.3	0	0.2	0
1030	1045	SJB	0.3	0.022	0.3	0.183 ~~0.033~~	0.3	0.092	0.3	0.062	0.3	0.074	0.3	0.115	0.3	0.197	0.3	0.136
1330	1545	SJB	0.4	0	0.4	0	0.4	0.042	0.4	0.050	0.4	0.017	0.4		0.4		0.4	

Active Work Areas/Activities:

Weather Conditions (temp, wind speed/dir, precip, etc):

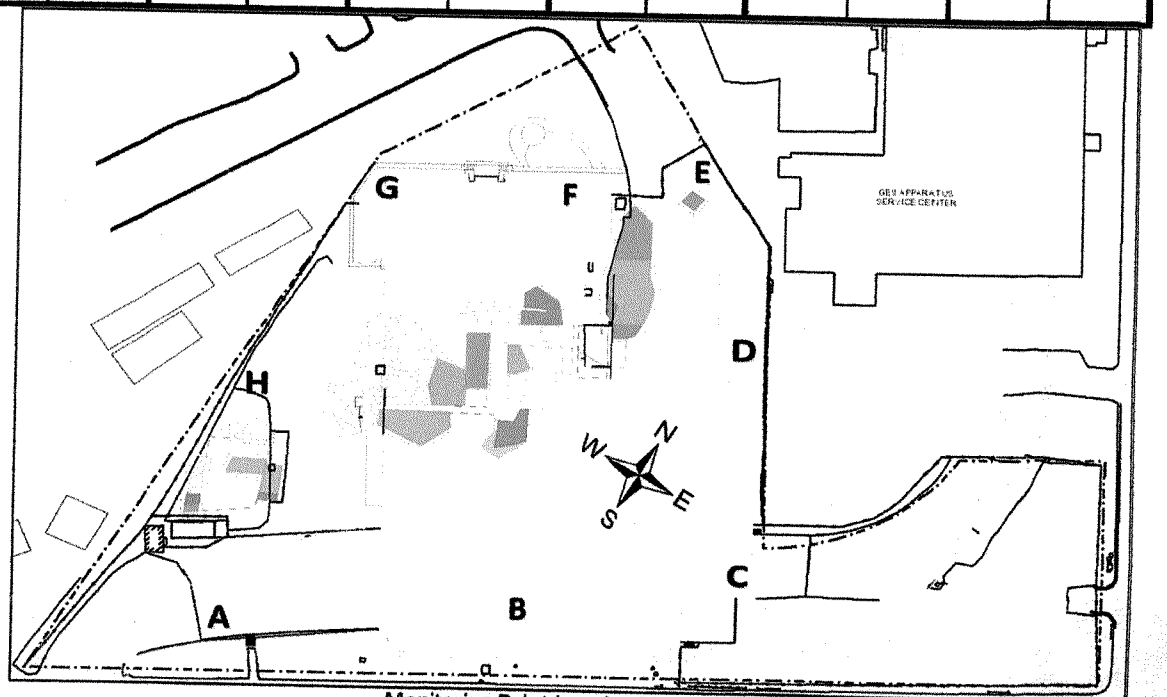
AM: High 70s - Low 80s

PM:

Comments/Corrective Measures:

Meter Calibration Date:

PID: _____ Dust: _____



Monitoring Point Location Map

WOODARD & CURRAN

Perimeter Air Monitoring Log
Former Oxford Chemical
2014 Soil Remediation

Date: 7/30/14

Day of Week: Wednesday

Testing Time			A		B		C		D		E		F		G		H	
Start	End	By	PID	Dust	PID	Dust	PID	Dust	PID	Dust	PID	Dust	PID	Dust	PID	Dust	PID	Dust
07:00	07:15	SJB	0.3	0.038	0.3	0.025	0.3	0.011	0.3	0.012	0.3	0.014	0.3	0.019	0.3	0.016	0.3	0.012
14:00	14:15	SJB	0.2	0.072	0.2	0.041	0.2	0.022	0.2	0.017	0.2	0.026	0.2	0.030	0.2	0.052	0.2	0.083
16:00	16:15	SJB	0.3	0.133	0.3	0	0.3	0	0.3	0	0.3	0	0.3	0	0.3	0	0.4	0

Active Work Areas/Activities:

Excavation 7C & 6B

Weather Conditions (temp, wind speed/dir, precip, etc):

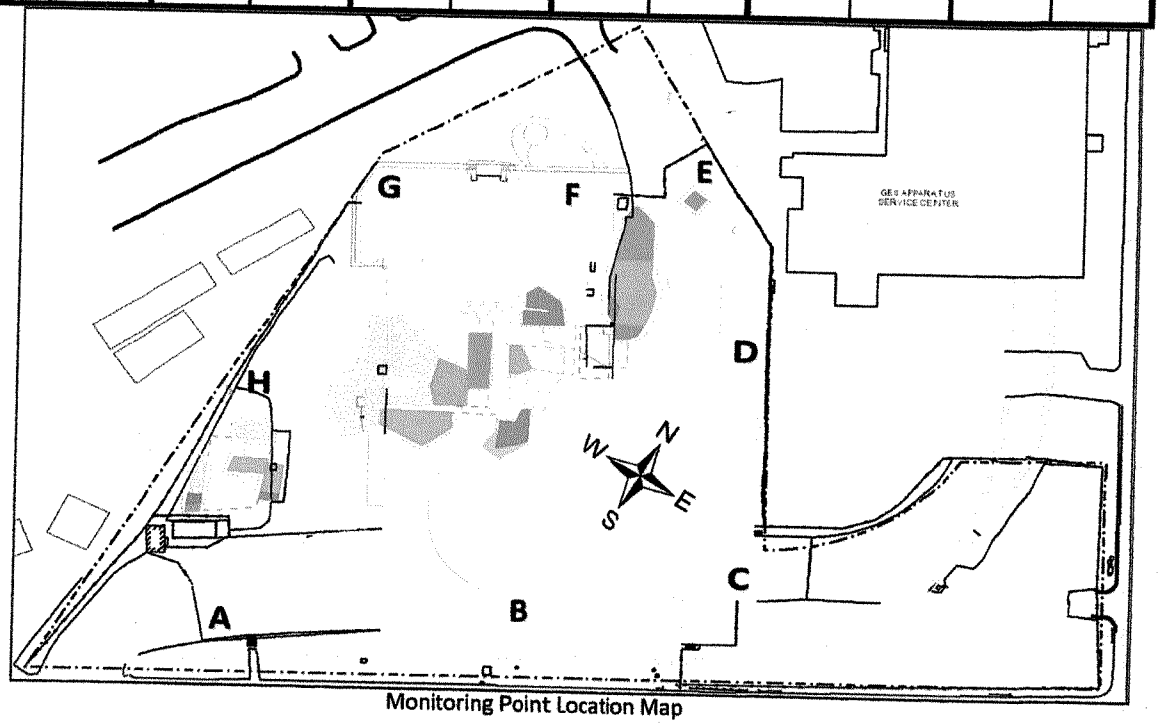
AM: High 80s - Mid 70s Mostly Sunny

PM:

Comments/Corrective Measures:

Meter Calibration Date:

PID: _____ Dust: _____



Monitoring Point Location Map

WOODARD &CURRAN

Perimeter Air Monitoring Log
Former Oxford Chemical
2014 Soil Remediation

Date: 7/31/14

Day of Week: Thursday

Testing Time			A		B		C		D		E		F		G		H	
Start	End	By	PID	Dust	PID	Dust	PID	Dust	PID	Dust	PID	Dust	PID	Dust	PID	Dust	PID	Dust
0740	0755	SJB	0.2	0	0.1	0	0.1	0	0.1	0	0.1	0	0.1	0.140	0.1	0.048	0.1	0.098
1025	1040	SJB	0.5	0.100	0.4	0	0.4	0.023	0.4	0.064	0.4	0	0.4	0.100	0.4	0	0.4	0
1350	1405	SJB	0.4	0.130	0.4	0	0.3	0	0.4	0.050	0.4	0	0.3	0	0.3	0	0.4	0.062

Active Work Areas/Activities:

Excavation 7C, 7A, 6B, 6A

Weather Conditions (temp, wind speed/dir, precip, etc):

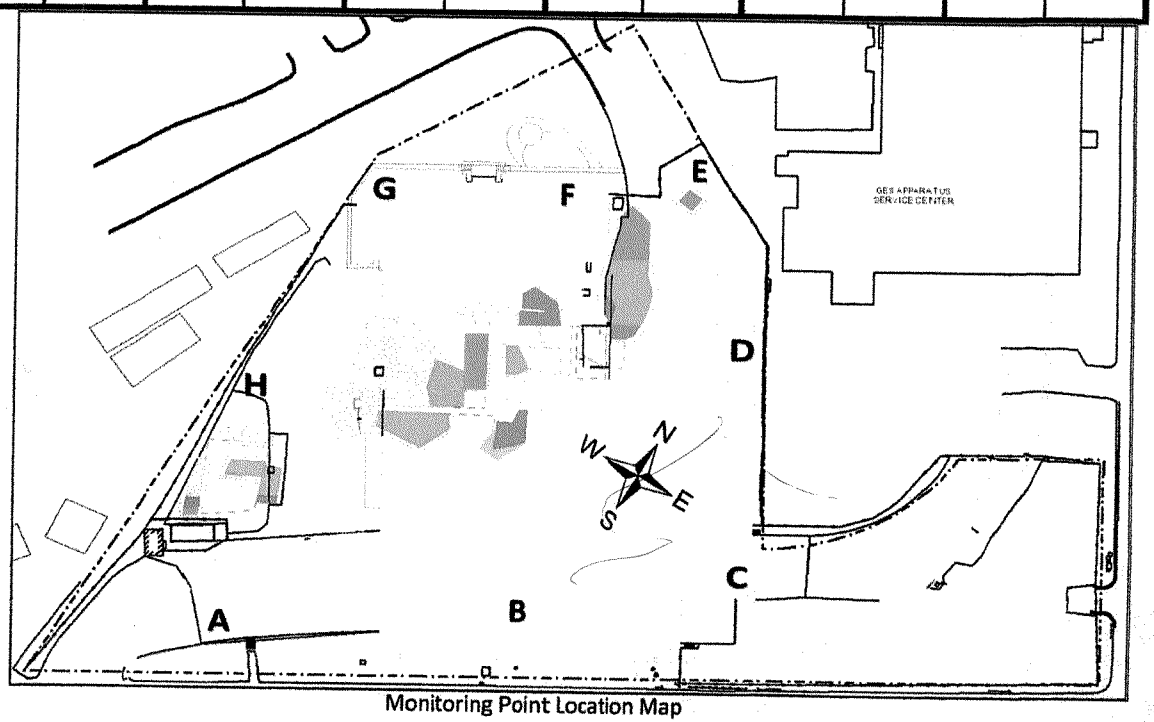
AM:

PM:

Comments/Corrective Measures:

Meter Calibration Date:

PID: _____ Dust: _____



Monitoring Point Location Map

WOODARD &CURRAN

Perimeter Air Monitoring Log
Former Oxford Chemical
2014 Soil Remediation

Date: 8/4/14

Day of Week: Monday

Testing Time			A		B		C		D		E		F		G		H	
Start	End	By	PID	Dust	PID	Dust	PID	Dust	PID	Dust	PID	Dust	PID	Dust	PID	Dust	PID	Dust
0650	0700	SJB	0.1	0.010	0	0.018	0	0.005	0	0.004	0	0.014	0	0.009	0	0.008	0	0.011
1030	1045	SJB	0.4	0.169	0.4	0	0.4	0.088	0.4	0.218	0.4	0.101	0.4	0	0.4	0.015	0.4	0
1625	1640	SJB	0.7	0	0.7	0	0.7	0	0.6	0.007	0.6	0	0.6	0	0.7	0	0.7	0

Active Work Areas/Activities:

Excavation 7C, 3, 10

Weather Conditions (temp, wind speed/dir, precip, etc):

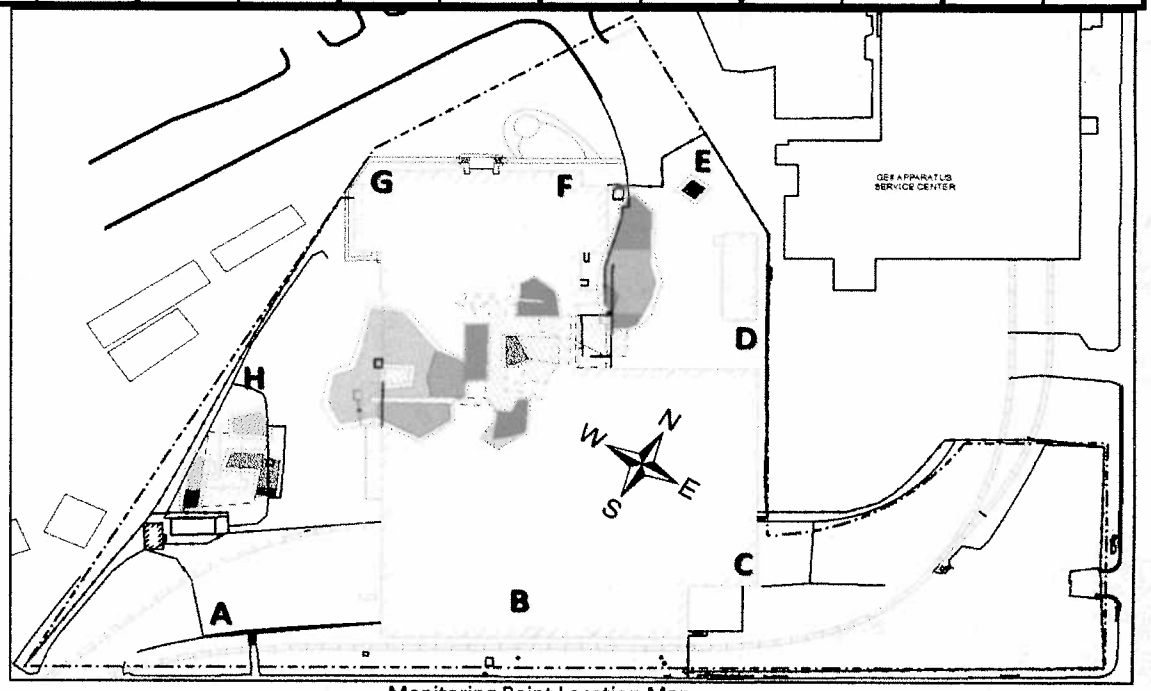
AM:

PM:

Comments/Corrective Measures:

Meter Calibration Date:

PID: _____ Dust: _____



Monitoring Point Location Map

WOODARD & CURRAN

Perimeter Air Monitoring Log
Former Oxford Chemical
2014 Soil Remediation

Date: 8/5/14

Day of Week: Tuesday

Testing Time			A		B		C		D		E		F		G		H	
Start	End	By	PID	Dust	PID	Dust	PID	Dust	PID	Dust	PID	Dust	PID	Dust	PID	Dust	PID	Dust
1000	1010	SJB	0.4	0	0.4	0	0.4	0	0.4	0	0.4	0	0.4	0	0.4	0	0.4	0
1320	1330		0.7	0	0.7	0	0.7	0	0.7	0	0.7	0	0.6	0	0.6	0	0.7	0

Active Work Areas/Activities:

Excavation 7C, 9, 10

Weather Conditions (temp, wind speed/dir, precip, etc):

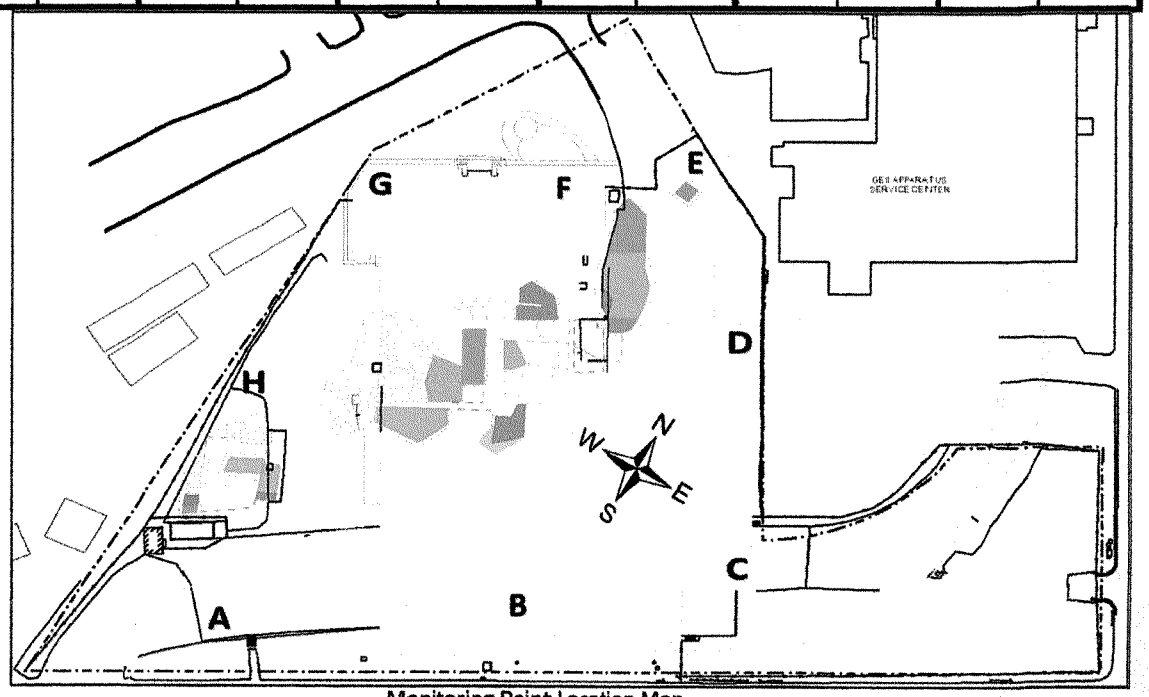
AM:

PM:

Comments/Corrective Measures:

Meter Calibration Date:

PID: _____ Dust: _____



Monitoring Point Location Map

WOODARD & CURRAN

Perimeter Air Monitoring Log
Former Oxford Chemical
2014 Soil Remediation

Date: 8/6/14

Day of Week: Wednesday

Testing Time			A		B		C		D		E		F		G		H	
Start	End	By	PID	Dust	PID	Dust	PID	Dust	PID	Dust	PID	Dust	PID	Dust	PID	Dust	PID	Dust
1115	1125	SJB	0	0.037	0	0.040	0	0.160	0	0.052	0	0.023	0	0.031	0	0.030	0	0.015
		SJB	0	0.029	0	0.048	0	0.155	0	0.027	0	0.025	0	0.118	0	0.024	0	0.134

Active Work Areas/Activities:

Excavation 9

Weather Conditions (temp, wind speed/dir, precip, etc):

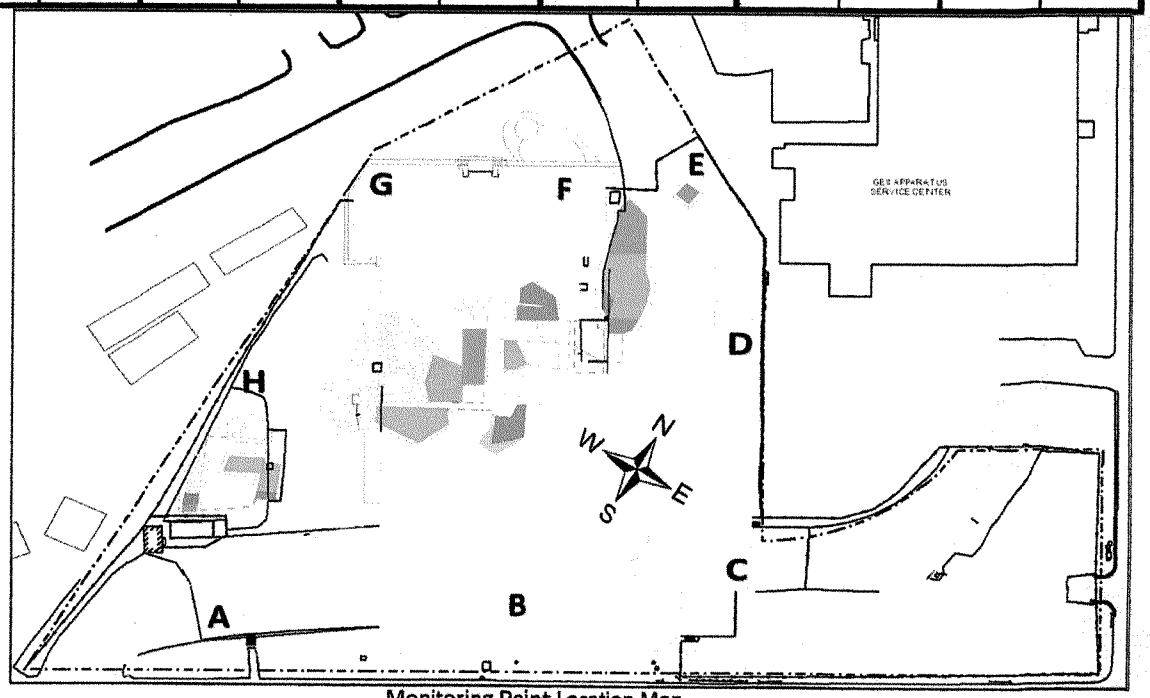
AM:

PM:

Comments/Corrective Measures:

Meter Calibration Date:

PID: _____ Dust: _____



Monitoring Point Location Map

WOODARD & CURRAN

Perimeter Air Monitoring Log
Former Oxford Chemical
2014 Soil Remediation

Date: 8/7/14

Day of Week: Thursday

Testing Time			A		B		C		D		E		F		G		H	
Start	End	By	PID	Dust	PID	Dust	PID	Dust	PID	Dust	PID	Dust	PID	Dust	PID	Dust	PID	Dust
0700	0710	SJB	0	0.108	0	0.062	0	0.061	0	0.066	0	0.147	0	0.131	0	0.065	0	0.083
1300	1310	SJB	0	0.136	0	0.027	0	0.029	0	0.062	0	0.020	0	0.021	0	0.025	0	0.015
1540	1550	SJB	0	0.123	0	0.013	0	0.014	0	0.016	0	0.020	0	0.105	0	0.017		

Active Work Areas/Activities:

Excavation 7C, 7B

Weather Conditions (temp, wind speed/dir, precip, etc):

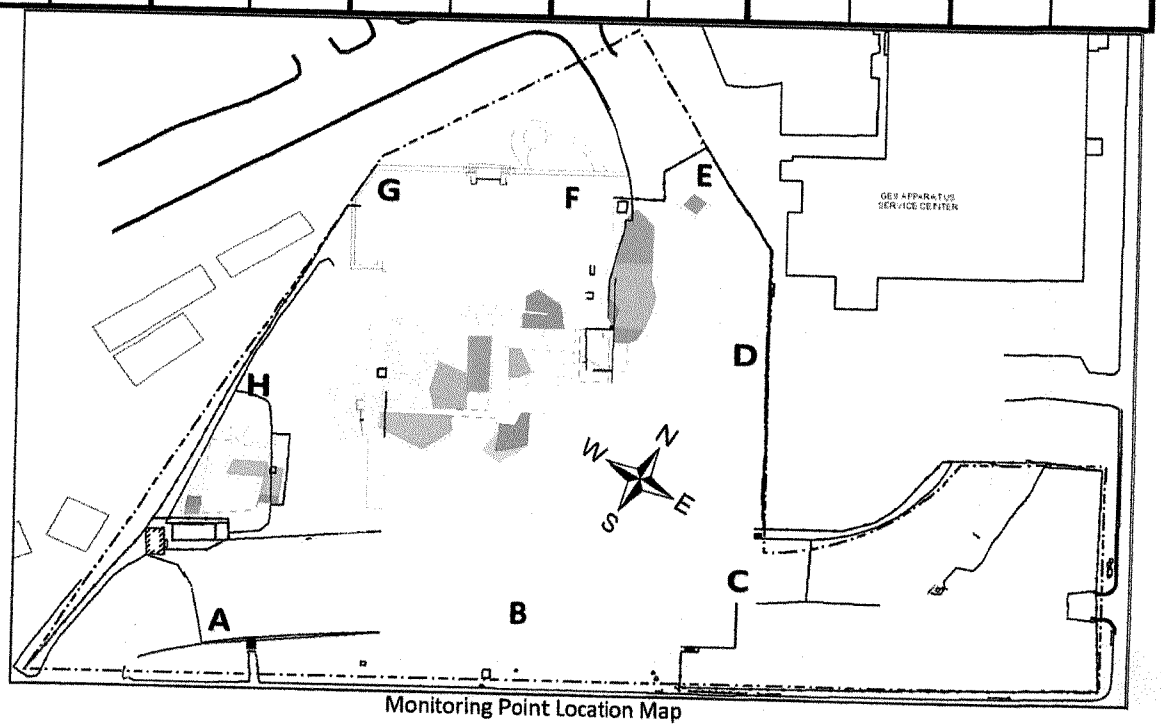
AM: Mid 70s - High 80s Mostly Sunny

PM: High 80s - Low 90s Mostly Sunny

Comments/Corrective Measures:

Meter Calibration Date:

PID: 8/7/14 Dust: 8/7/14



Monitoring Point Location Map

WOODARD &CURRAN

Perimeter Air Monitoring Log
Former Oxford Chemical
2014 Soil Remediation

Date: 8/13/14

Day of Week: Wednesday

Testing Time			A		B		C		D		E		F		G		H	
Start	End	By	PID	Dust	PID	Dust	PID	Dust	PID	Dust	PID	Dust	PID	Dust	PID	Dust	PID	Dust
0800	0810	SJB	0.4	0	0.4	0	0.4	0	0.4	0	0.4	0	0.4	0	0.4	0	0.6	0.019

Active Work Areas/Activities:

Excavation 7B

Weather Conditions (temp, wind speed/dir, precip, etc):

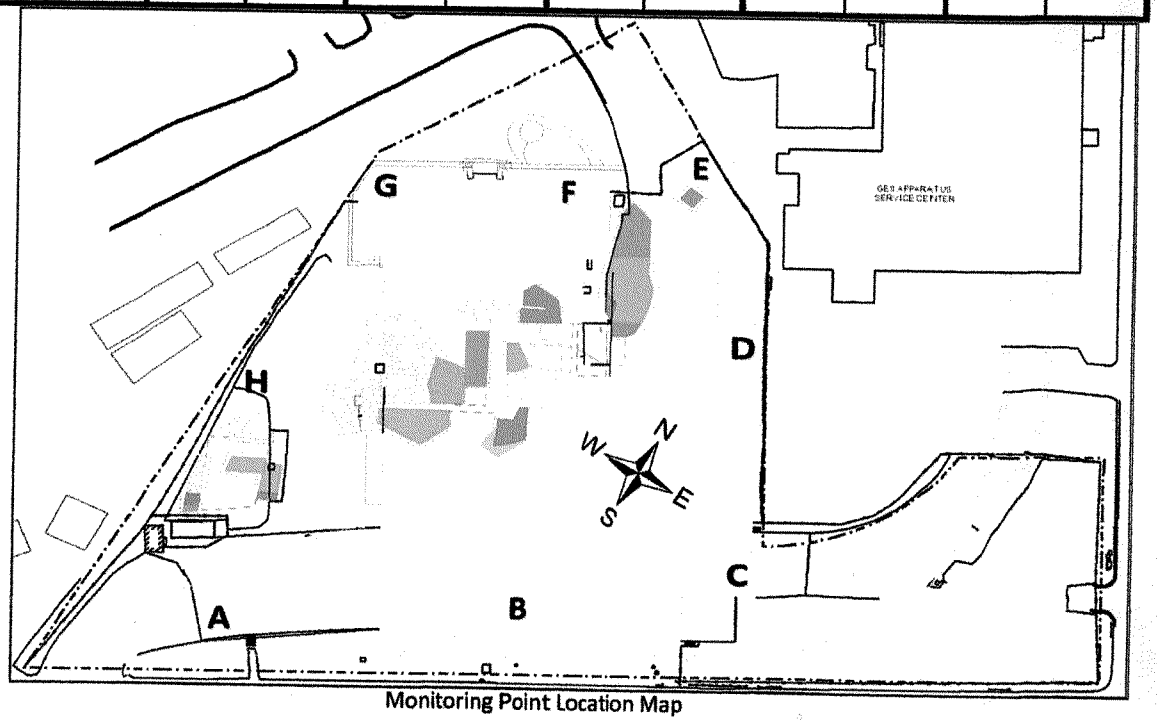
AM:

PM:

Comments/Corrective Measures:

Meter Calibration Date:

PID: 8/13/14 Dust: 8/13/14



Monitoring Point Location Map

WOODARD &CURRAN

Perimeter Air Monitoring Log
Former Oxford Chemical
2014 Soil Remediation

Date: 8-15-14

Day of Week: Friday

Testing Time			A		B		C		D		E		F		G		H	
Start	End	By	PID	Dust	PID	Dust	PID	Dust	PID	Dust	PID	Dust	PID	Dust	PID	Dust	PID	Dust
1007	1030	JDK	0.0	.046	0.0	.006	0.0	.083	0.0	.001	0.0	.000	0.0	.279	0.0	.005	0.0	.294
1400	1435	JDK	0.0	.021	0.0	.008	0.0	.010	0.0	.001	0.0	.001	0.0	.314	0.0	.015	0.0	.300

Active Work Areas/Activities:

Area 7A/7B

Weather Conditions (temp, wind speed/dir, precip, etc):

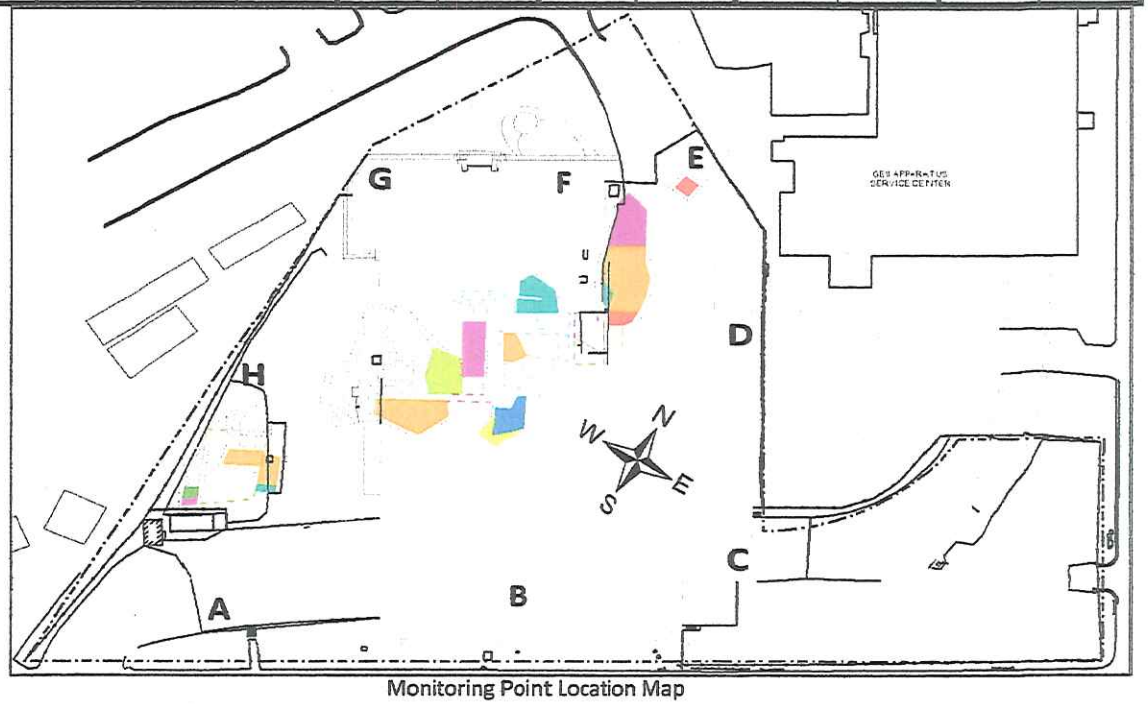
AM: Hot Small breeze 3 knots

PM:

Comments/Corrective Measures:

Meter Calibration Date:

PID: 8-15-14 Dust: 8-15-14



Monitoring Point Location Map

WOODARD & CURRAN

Perimeter Air Monitoring Log
Former Oxford Chemical
2014 Soil Remediation

Date: 8-16-14
Day of Week: Saturday

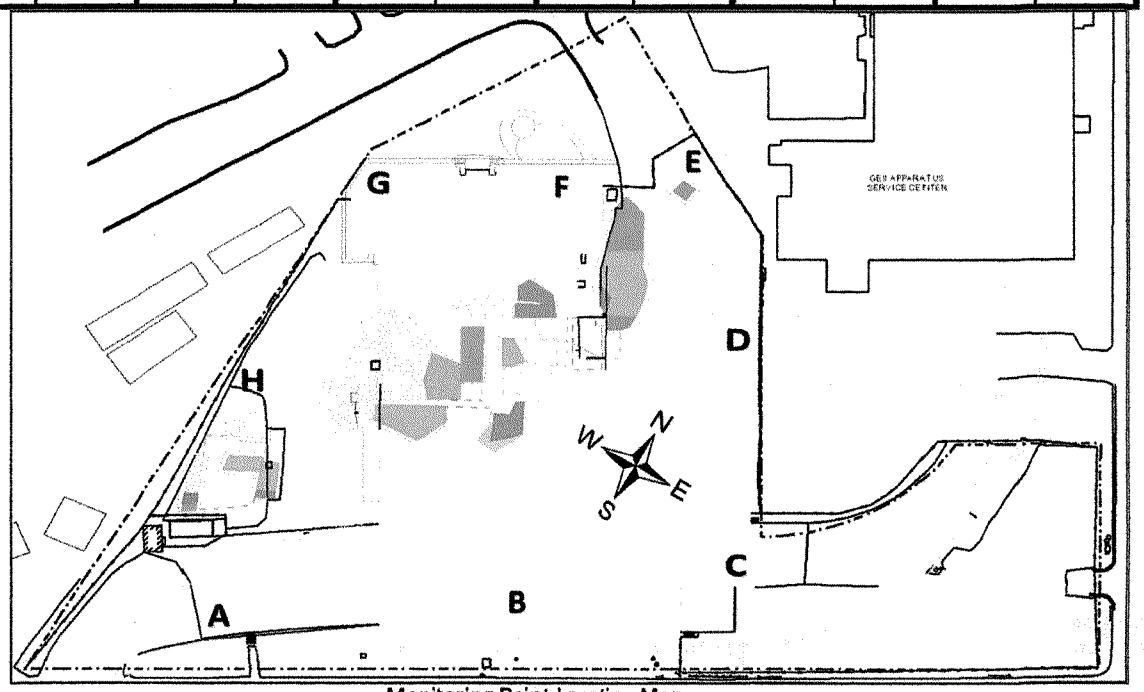
Testing Time			A		B		C		D		E		F		G		H	
Start	End	By	PID	Dust	PID	Dust	PID	Dust	PID	Dust	PID	Dust	PID	Dust	PID	Dust	PID	Dust
0713	0738	JDK	0.0	0.020	0.0	0.031	0.0	0.00	0.0	0.004	0.0	0.002	0.1	0.002	0.2	0.006	0.2	0.121

Active Work Areas/Activities:
7A/B

Weather Conditions (temp, wind speed/dir, precip, etc):
AM: Clear Calm Moist Warm
PM:

Comments/Corrective Measures:

Meter Calibration Date:
PID: 8-16-14 Dust: 8-16-14



Monitoring Point Location Map

WOODARD &CURRAN

Perimeter Air Monitoring Log
Former Oxford Chemical
2014 Soil Remediation

Date: 8/18/14

Day of Week: Monday

Testing Time			A		B		C		D		E		F		G		H	
Start	End	By	PID	Dust	PID	Dust	PID	Dust	PID	Dust	PID	Dust	PID	Dust	PID	Dust	PID	Dust
0810	0820	SJB	0.5	0.101	0.5	0.013	0.4	0.005	0.5	0.098	0.4	0.018	0.5	0.011	0.5	0.020	0.4	0
1435	1445	SJB	0.5	0.018	0.5	0.011	0.5	0.612	0.5	0.145	0.4	0	0.4	0.035	0.4	0	0.4	0

Active Work Areas/Activities:

Excavation 7A, 7B

Weather Conditions (temp, wind speed/dir, precip, etc):

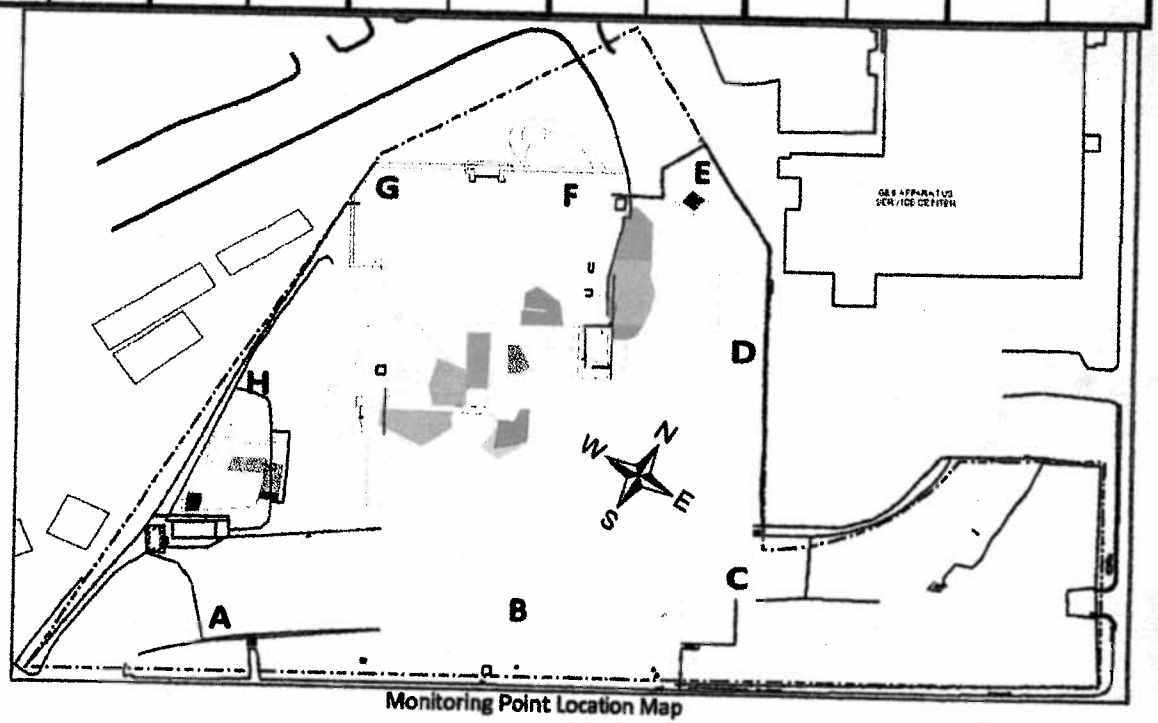
AM: Low 70s - Low 80s overcast

PM: Mid-High 80s Partly Sunny

Comments/Corrective Measures:

Meter Calibration Date:

PID: _____ Dust: _____



Monitoring Point Location Map

WOODARD &CURRAN

Perimeter Air Monitoring Log
Former Oxford Chemical
2014 Soil Remediation

Date: 8/19/14

Day of Week: Tuesday

Testing Time			A		B		C		D		E		F		G		H	
Start	End	By	PID	Dust	PID	Dust	PID	Dust	PID	Dust	PID	Dust	PID	Dust	PID	Dust	PID	Dust
0800	0815	SJB	0.5	0	0.7	0	0.6	0	0.6	0	0.5	0	0.5	0	0.6	0	0.6	0
1050	1100	SJB	0.7	0.015	0.7	0.018	0.7	0.004	0.6	0.010	0.6	0	0.6	0	0.6	0	0.6	0.021
1355	1405	SJB	0.4	0	0.4	0	0.5	0.017	0.5	0	0.4	0	0.4	0	0.4	0	0.4	0

Active Work Areas/Activities:

Excavation 8

Weather Conditions (temp, wind speed/dir, precip, etc):

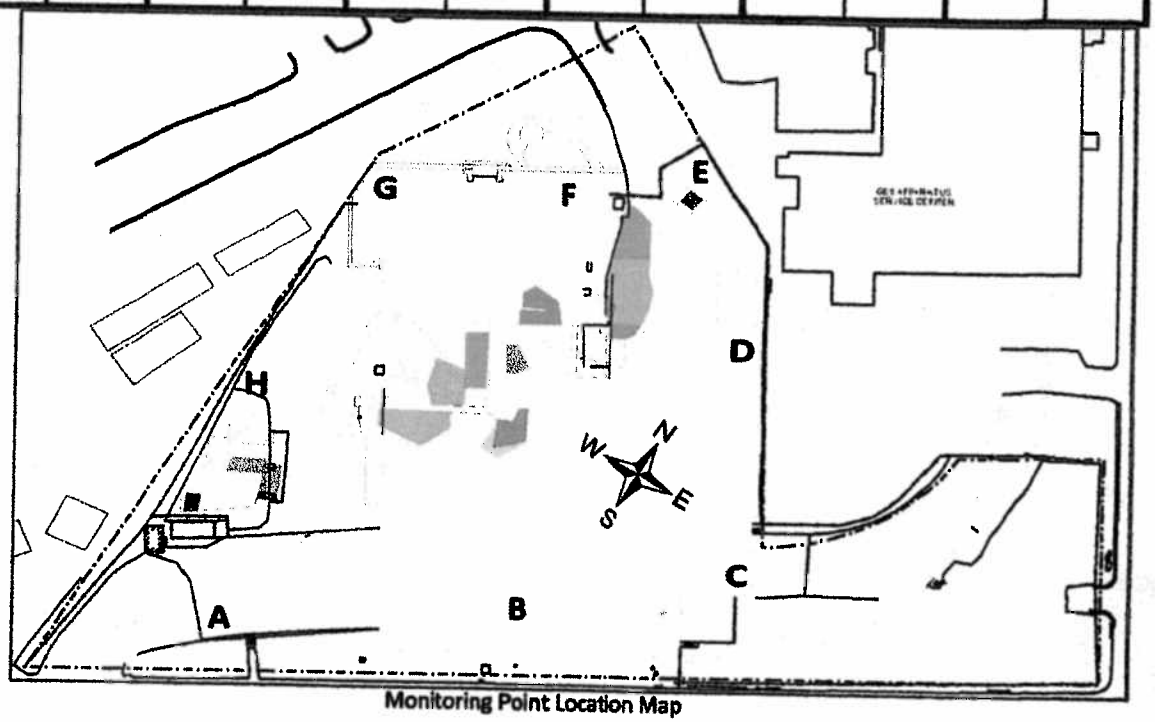
AM:

PM:

Comments/Corrective Measures:

Meter Calibration Date:

PID: _____ Dust: _____



Monitoring Point Location Map

WOODARD &CURRAN

Perimeter Air Monitoring Log
Former Oxford Chemical
2014 Soil Remediation

Date: 8/20/14

Day of Week: Wednesday

Testing Time			A		B		C		D		E		F		G		H	
Start	End	By	PID	Dust	PID	Dust	PID	Dust	PID	Dust	PID	Dust	PID	Dust	PID	Dust	PID	Dust
0715	0725	SJB	0.3	0.015	0.3	0.011	0.3	0	0.3	0.018	0.3	0	0.3	0.012	0.3	0.031	0.3	0.035
1055	1105	SJB	0.5	0	0.5	0.015	0.4	0	0.5	0.015	0.4	0.014	0.4	0	0.4	0.010	0.5	0

Active Work Areas/Activities:

Excavation 7B, 7A, 8, 5

Weather Conditions (temp, wind speed/dir, precip, etc):

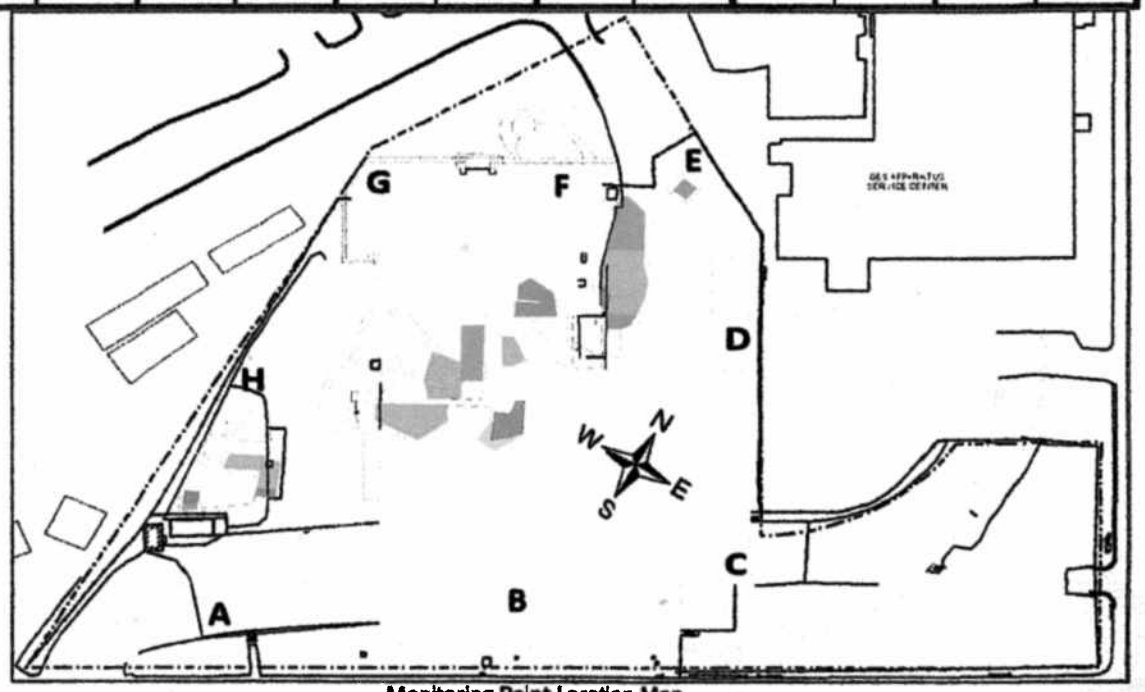
AM: m.d 70s - m.d 80s Humid, Partly Cloudy

PM: m.d 80s. low 90s Humid, Some rain/Storms

Comments/Corrective Measures:

Meter Calibration Date:

PID: _____ Dust: _____



Monitoring Point Location Map

WOODARD &CURRAN

Perimeter Air Monitoring Log
Former Oxford Chemical
2014 Soil Remediation

Date: 8/21/14

Day of Week: Thursday

Testing Time			A		B		C		D		E		F		G		H	
Start	End	By	PID	Dust	PID	Dust	PID	Dust	PID	Dust	PID	Dust	PID	Dust	PID	Dust	PID	Dust
0920	0930	SJB	0.6	0.051	0.6	0.417	0.7	0.018	0.7	0.025	0.7	0	0.6	0	0.6	0.055	0.7	0.032

Active Work Areas/Activities:

Excavation 5, 2A, 7B

Weather Conditions (temp, wind speed/dir, precip, etc):

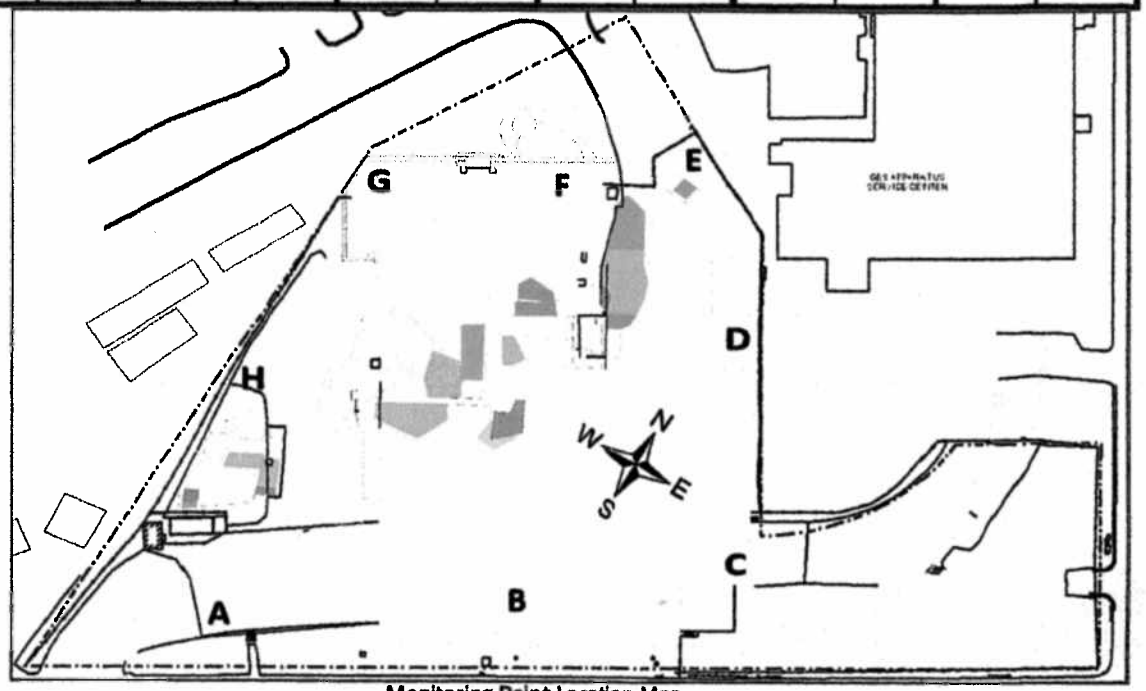
AM: High 60s - Mid 80s Mostly Sunny

PM: High 80s - High 90s Mostly Sunny

Comments/Corrective Measures:

Meter Calibration Date:

PID: _____ Dust: _____



Monitoring Point Location Map

WOODARD &CURRAN

Perimeter Air Monitoring Log
Former Oxford Chemical
2014 Soil Remediation

Date: 8/25/14

Day of Week: Monday

Testing Time			A		B		C		D		E		F		G		H	
Start	End	By	PID	Dust	PID	Dust	PID	Dust	PID	Dust	PID	Dust	PID	Dust	PID	Dust	PID	Dust
1400	1410	SJB	0	0	0	0.035	0	0.121	0	0.081	0	0.224	0	0.014	0	0.011	0	0.116

Active Work Areas/Activities:

Excavation 2B, 2C, 8

Weather Conditions (temp, wind speed/dir, precip, etc):

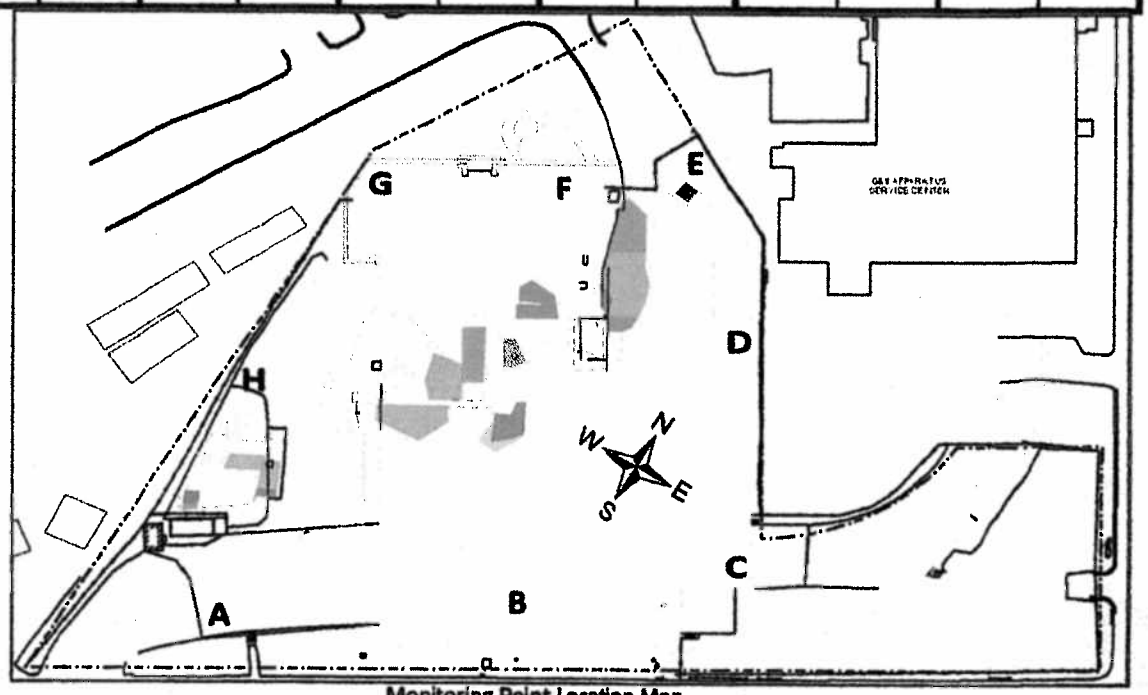
AM:

PM:

Comments/Corrective Measures:

Meter Calibration Date:

PID: _____ Dust: _____



Monitoring Point Location Map

WOODARD &CURRAN

Perimeter Air Monitoring Log
Former Oxford Chemical
2014 Soil Remediation

Date: 8/27/14

Day of Week: Wednesday

Testing Time			A		B		C		D		E		F		G		H	
Start	End	By	PID	Dust	PID	Dust	PID	Dust	PID	Dust	PID	Dust	PID	Dust	PID	Dust	PID	Dust
1015	1025	SJB	0.1	0	0.2	0.014	0.2	0.022	0.1	0.113	0.1	0.017	0.2	0.016	0.2	0.031	0.2	0.016
1330	1340	SJB	0.7	0.035	0.7	0	0.7	0.007	0.6	0.020	0.6	0.015	0.8	0.065	0.7	0.056	0.7	0.010

Active Work Areas/Activities:

Exavation 4, 5

Weather Conditions (temp, wind speed/dir, precip, etc):

AM: m.d 60s High 70s Mostly Sunny

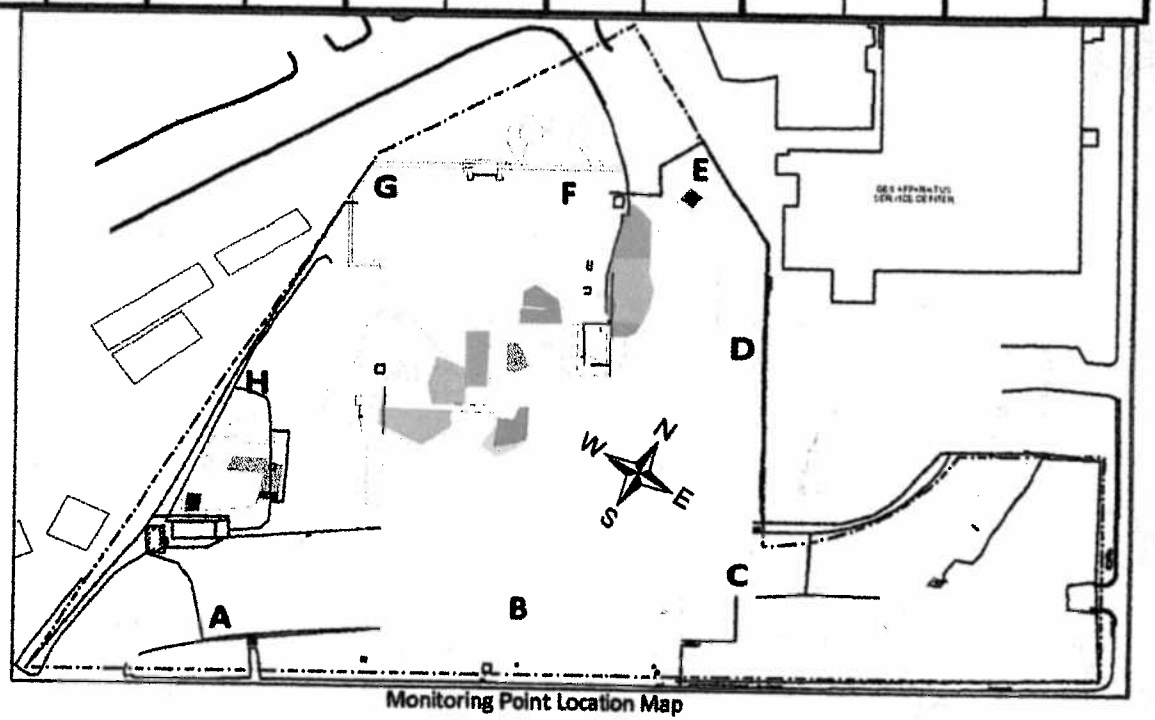
PM: High 70s - High 80s Partly Cloudy

Comments/Corrective Measures:

Dust supression w/ water truck

Meter Calibration Date:

PID: 8/27/14 Dust: 8/27/14



Monitoring Point Location Map

WOODARD &CURRAN

Perimeter Air Monitoring Log
Former Oxford Chemical
2014 Soil Remediation

Date: 8/28/14

Day of Week: Thursday

Testing Time			A		B		C		D		E		F		G		H	
Start	End	By	PID	Dust	PID	Dust	PID	Dust	PID	Dust	PID	Dust	PID	Dust	PID	Dust	PID	Dust
1000	1010	SJB	0.2	0.018	0.6	0.054	0.6	0.037	0.2	0.022	0.2	0	0.2	0	0.2	0	0.2	0.033

Active Work Areas/Activities:

Excavation 4(Hz), 2A, 2B, 5(Hz)

Weather Conditions (temp, wind speed/dir, precip, etc):

AM:

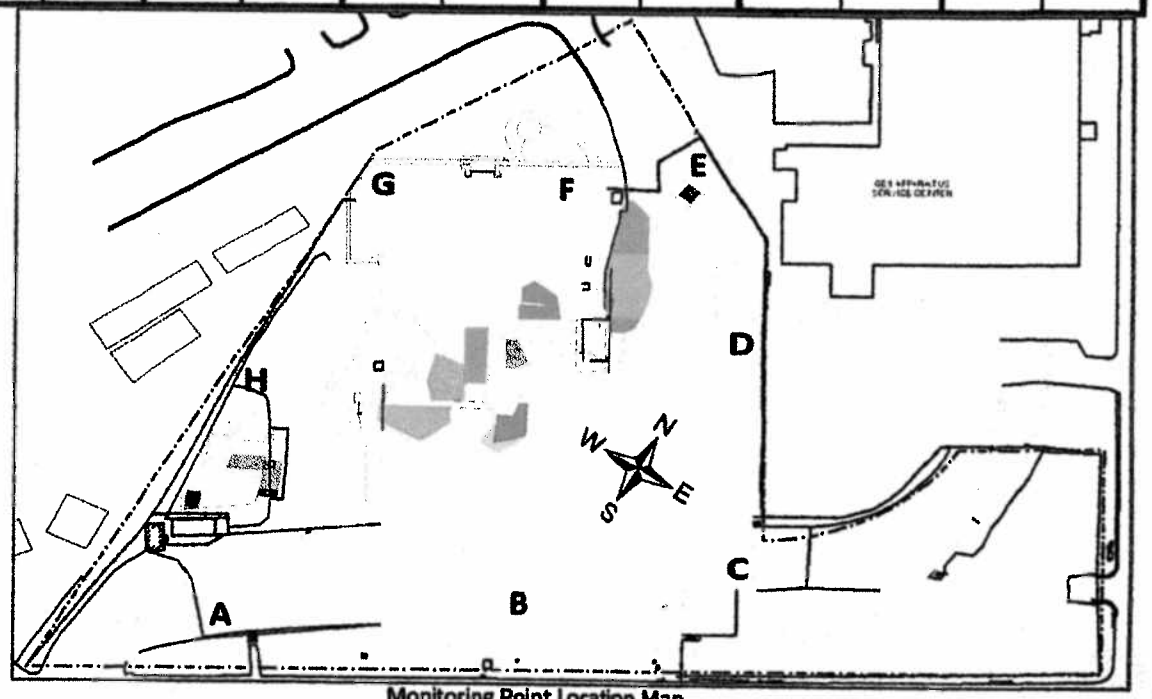
PM:

Comments/Corrective Measures:

Dust Supressor w/ Water Truck

Meter Calibration Date:

PID: _____ Dust: _____



Monitoring Point Location Map

WOODARD &CURRAN

Perimeter Air Monitoring Log
Former Oxford Chemical
2014 Soil Remediation

Date: 9/3/14

Day of Week: Wednesday

Testing Time			A		B		C		D		E		F		G		H	
Start	End	By	PID	Dust	PID	Dust	PID	Dust	PID	Dust	PID	Dust	PID	Dust	PID	Dust	PID	Dust
1415	1420	SJB	0	0	0	0	0	0	0.1	0.092	0.7	0.111	0.2	0.187	0	0.037	0	0

Active Work Areas/Activities:

Excavation 2Haz, 4Haz, 7Haz

Weather Conditions (temp, wind speed/dir, precip, etc):

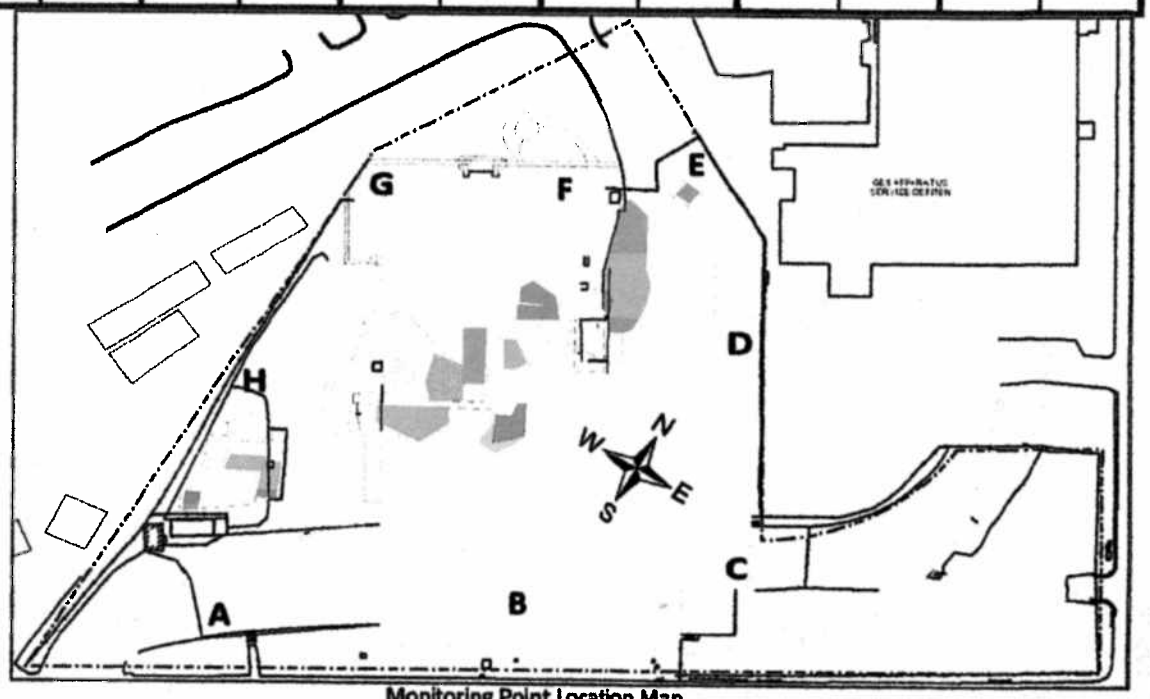
AM:

PM:

Comments/Corrective Measures:

Meter Calibration Date:

PID: _____ Dust: _____



Monitoring Point Location Map

WOODARD &CURRAN

Perimeter Air Monitoring Log
Former Oxford Chemical
2014 Soil Remediation

Date: 9/4/14

Day of Week: Thursday

Testing Time			A		B		C		D		E		F		G		H	
Start	End	By	PID	Dust	PID	Dust	PID	Dust	PID	Dust	PID	Dust	PID	Dust	PID	Dust	PID	Dust
1200	1210	SJB	0.4	0	0.1	0	0.1	0	0.1	0	0.1	0.014	0.6	0.032	0.5	0.011	0.6	0.019

Active Work Areas/Activities:

Excavation 7B Haz

Weather Conditions (temp, wind speed/dir, precip, etc):

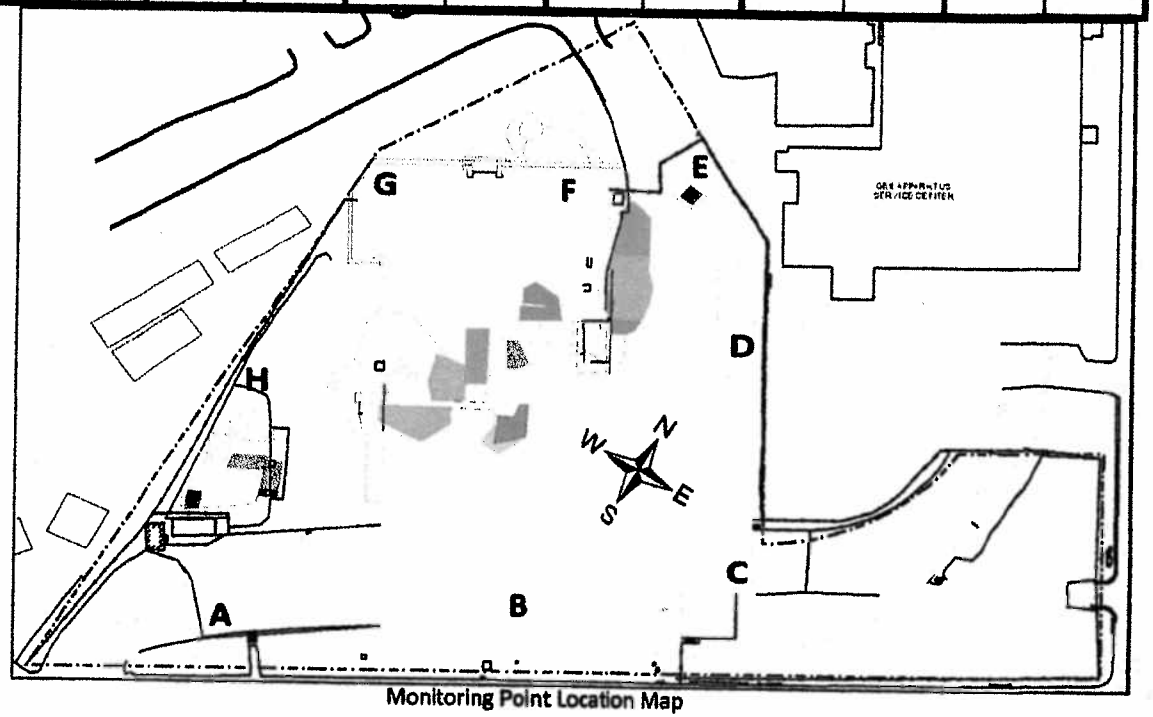
AM: Low 70s - Low 80s Hum.d, overcast

PM:

Comments/Corrective Measures:

Meter Calibration Date:

PID: 9/4/14 Dust: 9/4/14



Monitoring Point Location Map

WOODARD & CURRAN

Perimeter Air Monitoring Log
Former Oxford Chemical
2014 Soil Remediation

Date: 9-5-14

Day of Week: Friday

Testing Time			A		B		C		D		E		F		G		H	
Start	End	By	PID	Dust	PID	Dust	PID	Dust	PID	Dust	PID	Dust	PID	Dust	PID	Dust	PID	Dust
0905	0935	JDK	0.0	.021	0.0	.009	0.0	.021	0.0	.013	0.0	.013	0.0	.000	0.0	.000	0.0	.000
1220	1255	JDK	0.0	.020	0.0	.001	0.0	.019	0.0	.001	0.0	.010	0.0	.000	0.0	.000	0.0	.000

Active Work Areas/Activities:

Area 2	Area 4	Area 7
loading out	mixing	mixing

Weather Conditions (temp, wind speed/dir, precip, etc):

AM: cloudy warm moist

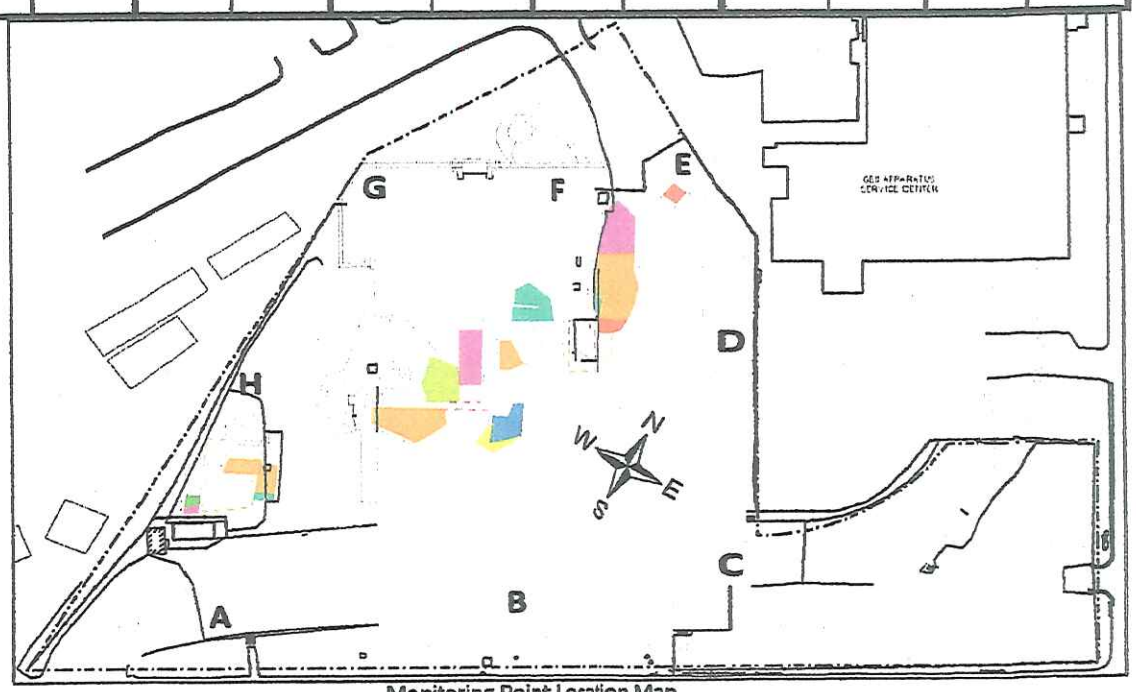
PM: cloudy Hot Dry

Comments/Corrective Measures:

Very wet Site in the Morning
Very wet and Hot Afternoon

Meter Calibration Date:

PID: 9-5-14 Dust: 9-5-14



Monitoring Point Location Map

WOODARD &CURRAN

Perimeter Air Monitoring Log
Former Oxford Chemical
2014 Soil Remediation

Date: 9-8-14
Day of Week: Monday

Testing Time			A		B		C		D		E		F		G		H	
Start	End	By	PID	Dust	PID	Dust	PID	Dust	PID	Dust	PID	Dust	PID	Dust	PID	Dust	PID	Dust
0705	0730	JDL	0.0	.001	0.0	.002	0.0	.012	0.0	.000	0.0	.001	0.0	.012	0.0	.016	0.0	.000
1059	1130	JDL	0.0	.000	0.0	.001	0.0	.010	0.0	.000	0.0	.002	0.0	.014	0.0	.009	0.0	.006
~~1130~~	~~1330~~ 1330	JDL	0.0	.000	0.0	.000	0.0	.011	0.0	.000	0.0	.002	0.0	.009	0.0	.005	0.0	.000

Active Work Areas/Activities:

Area 2 / Area 4 / 7
load out / Remix / mix

Weather Conditions (temp, wind speed/dir, precip, etc):

AM: cloudy warm

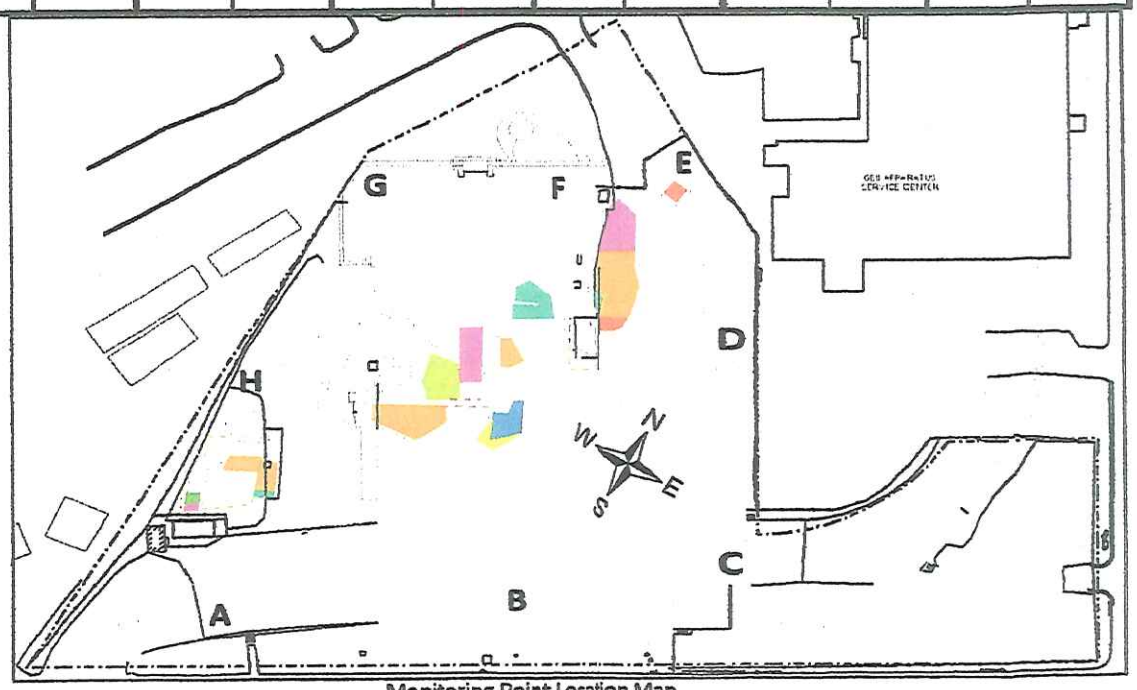
PM:

Comments/Corrective Measures:

wet site

Meter Calibration Date:

PID: 9-8-14 Dust: 9-8-14



Monitoring Point Location Map

WOODARD & CURRAN

Perimeter Air Monitoring Log
Former Oxford Chemical
2014 Soil Remediation

Date: 9-9-14

Day of Week: Tuesday

Testing Time			A		B		C		D		E		F		G		H	
Start	End	By	PID	Dust	PID	Dust	PID	Dust	PID	Dust	PID	Dust	PID	Dust	PID	Dust	PID	Dust
0810	0830	JDL					0.0	.001	0.0	.001	0.0	.000	0.0	.023	0.0	.010		
1140	1200	JDL					0.0	.008	0.0	.010	0.0	.009	0.0	.021	0.0	.018		

Active Work Areas/Activities:

Area 8
Mixing

Weather Conditions (temp, wind speed/dir, precip, etc):

AM: Hot clear

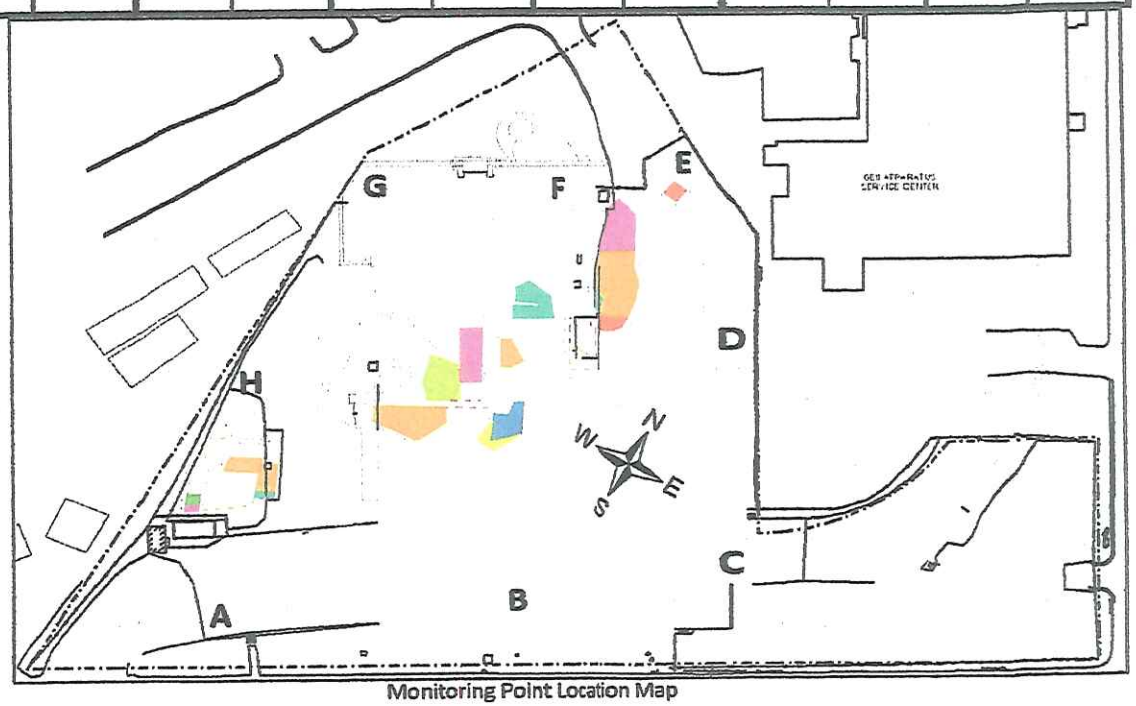
PM: Hot cloudy

Comments/Corrective Measures:

Meter Calibration Date:

PID: 9-8-14

Dust: 9-8-14



Monitoring Point Location Map

WOODARD &CURRAN

Perimeter Air Monitoring Log
Former Oxford Chemical
2014 Soil Remediation

Date: 9-10-14

Day of Week: Wednesday

Wet Site No Dust

Testing Time			A		B		C		D		E		F		G		H	
Start	End	By	PID	Dust	PID	Dust	PID	Dust	PID	Dust	PID	Dust	PID	Dust	PID	Dust	PID	Dust
1350	1415	JPK	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.01	0.0	0.01	0.0	0.01	0.0	0.00

Active Work Areas/Activities:

Area 4 mix

Area 7 load out

Weather Conditions (temp, wind speed/dir, precip, etc):

AM: cloudy cool

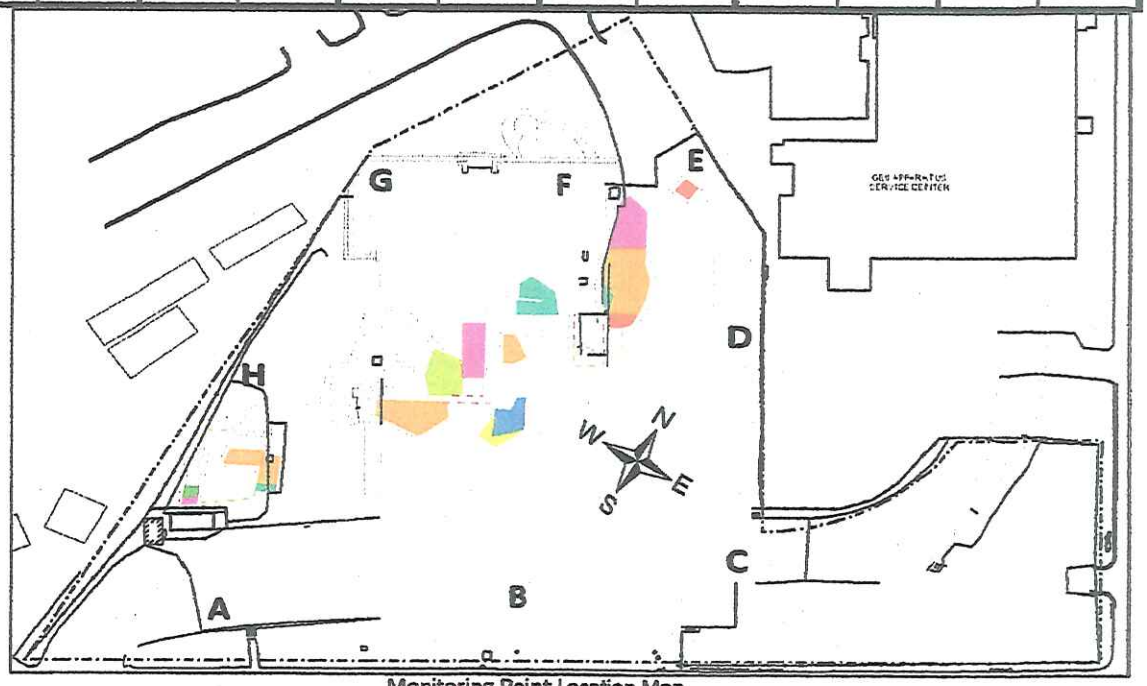
PM: cloudy warm

Comments/Corrective Measures:

wet site

Meter Calibration Date:

PID: 9-9-14 Dust: 9-9-14



Monitoring Point Location Map

Appendix G
Soil Treatability Study

The Winter Construction Company
191 Peachtree St., Suite 2100
Atlanta, Georgia 30303
Phone: 404-588-3300
Fax: 404-223-1146

Submittal Transmittal No. 2

WINTER ENVIRONMENTAL

To: **Woodard and Curran**
2055 Sugarloaf Cr., Suite 175
Duluth, GA 30097

Attn: **Len Diprima**

Date: **06/20/2014**
Project: **14082 - Former Oxford Chemical Raython**

- [ ] For Information/Files
- [x] For Approval
- [ ] Other

- [x] Herewith
- [ ] Under Separate Cover
- [ ] Other

- [ ] Approved
- [ ] Approved as Noted
- [ ] Revise and Resubmit
- [ ] Rejected; Resubmit
- [x] Other

Sent Via: E-Mail

Sub/Vendor:

Qty	Submittal Number	Spec Section	Date due Back from Architect	Description	Remarks
1	02		06/27/2014	Former Oxford Chemcial Soil Treatability Study	

Comments:
Soil Treatability Study - Former Oxford Chemcial

cc:

By: Scott Embry

Title: Senior Project Manager

ER Group, LLC

1937 Quail Run
Lawrenceville, GA 30044
404.353.7744
www.envrg.net

Via Email Only April 28, 2014

Scott Embry
Senior Project Manager
Winter Environmental
3350 Green Pointe Parkway | Suite 200
Norcross, GA 30092

SUBJECT: Results of Former Oxford Chemical Soil Treatability
5001 Peachtree Industrial Boulevard, Chamblee, Georgia 30341

Dear Mr. Embry,

ER Group, LLC (ERG) has completed the soil treatability testing on the former Oxford Chemical soil for the in-situ chemical oxidation of volatile organic compounds (VOCs). The proposed scope of testing was initially limited at two test doses of sodium persulfate (persulfate) at 5 gm/Kg and 15 gm/Kg, and one dose of potassium permanganate (KPerm) at 8 gm/Kg. Soil treatment test results from these doses did not show the target reduction of approximately 99% of tetrachloroethylene (PCE), presumably due to high oxidant demand in the test soil. Therefore additional tests were performed at 12 g/Kg KPerm, and 20 g/Kg of persulfate. Both tests at the higher dosages achieved the 99% PCE reduction. It is assumed that treated soil at 99% VOC destruction will allow disposal as a non-hazardous special waste. The conditions under which the testing was performed are important considerations in understanding and using these data in the design and costing of in-situ soil treatment for this project.

Test Procedure
A raw bulk soil sample of approximately 2 Kg was removed from the sample bucket and refrigerated in a heavy duty zip-lock bag. Once chilled, the sample was homogenized directly in the sealed bag with as little headspace as practical by manually kneading and pulverizing the material to a fine consistency. Clumps of soil were crushed and mixed to produce bulk material from which all subsequent test samples were obtained. A sample of homogenized bulk sample was placed in containers provided by Analytical Environmental Services Inc. for reporting of PCE, TCE and dichlorbenzene isomers using method EPA 8260B. Laboratory results from all tests are attached to this report.

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From the homogenized bulk sample 200 gram sub-samples were placed in small zip-lock bags, and premeasured quantities of water and the oxidant dose were added.

Approximately 0.5 grams of iron catalyzer (Dissolvine-Ferric sodium complex) was added to the persulfate for the 5 and 15 g/Kg tests, and 5 grams EDTA was added to the 20 g/Kg test mixture. The water/soil ratio was 50 grams water per 200 grams soil for the first test series, and 60 grams water per 200 grams soil for the second test series. The mixture of soil, water and oxidant were manually mixed in the zip-lock bag to a very well-mixed and homogenous paste-like consistency.

After mixing was completed, samples were immediately taken from the mixture and placed in preserved containers for limited reporting of PCE, TCE and dichlorobenzene isomers using EPA method 8260B.

Results and Observations

A summary of treatment test results are shown in Table 1.

Table 1: Oxford Soil Chemical Oxidation Treatability Testing Results

Target	Raw Soil	Persulfate Test Dose			Kperm Test Dose	
Compound	ug/Kg	5 g/Kg	15 g/kg	20 g/Kg	8 g/kg	12 g/Kg
PCE	140,000	56,000	51,000	600	46,000	230
TCE	18,000	4,000	4,600	55	680	170
1,2 DCB	84,000	42,000	41,000	2,300	49,000	1,500
1,4 DCB	5,300	2,300	2,100	150	2,900	190
1,3 DCB	1,500	1,300	1,200	BRL	1,700	110

After adding water, the soil sample was observed to be relatively easy to mix to the final consistency, with a tendency to crumble and moisten quickly. The test soil did not appear to contain cohesive clay clumps that would make large-scale mechanical mixing difficult. No plant material was observed in the sample, and based on the sample pH of 11, along with the general consistency of the material and the dark uniform color, it is possible that the sample may be a combination of soil and other foreign waste material from previous facility operations.

Based on the uniform characteristics of the sample, the high pH, and the high chlorinated compound concentrations, it appears likely that the sample will not be

representative of the majority of the target in-situ soil treatment target material at the site. This sample has the potential to be an extreme worst case for costing purposes.

VOC destruction in the test samples containing 5 g/Kg and 15 g/Kg of persulfate are not easily comparable to the 8 g/Kg and 12 g/Kg KPerm test results. This is because of the tendency of catalyzed persulfate to more readily consume a broader spectrum of organic materials that may be present in the soil in addition to the target VOC compounds. Also, the relatively small difference in target organic compound destruction between the 5 and 15 g/Kg dosage in the first test series suggest incomplete catalyzation by the EDTA-iron, possibly due to the high pH of the soil causing the ferric iron to rapidly precipitate and become unavailable as a catalyzer.

Recommendation

The degree of VOC destruction at the higher oxidant doses suggests that 12 g/Kg KPerm and 20 g/Kg persulfate are sufficient, but excessively high for the purpose of achieving Subtitle D landfill disposable material **at the lowest cost**. The oxidant availability at lower doses appears insufficient in terms of target VOC destruction, however the soil pH may have interfered with the catalyzation of persulfate.

An intermediate dose would appear to offer a practical compromise based on the KPerm results. If KPerm is used, then a dose in the range of 10 g/Kg appears to be reasonable, although actual field conditions and completeness of mixing are the primary controlling factors in achieving satisfactory results.

However, if persulfate is preferred, then a dose of 15 g/Kg or even lower may prove sufficient with adequate catalyzation. The high pH of the test soil suggests that the most economical approach for in-situ oxidation could be base-catalyzation of persulfate. This approach was not tested in this treatability study, and if chosen should be verified by additional treatability testing prior to implementation.

Regardless of the oxidant used, Winter should consider the use of quick lime (calcium oxide) as the treated soil drying agent, and consider planning a treatment approach that emphasizes higher oxidant dosage only in small selected areas of the target area.

Thank you for the opportunity to provide these services. Please feel free to contact me any time at 404-353-7744.

Sincerely,

ER Group, LLC

Victor Owens, PE
President

Attachments

LABORATORY REPORTS

AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

April 18, 2014

Victor Owens
ER Group, LLC
1937 Quail Run
Lawrenceville GA 30044

TEL: (770) 339-3710
FAX:

RE: Oxford Treatability

Dear Victor Owens: Order No: 1404G94

Analytical Environmental Services, Inc. received 4 samples on 4/16/2014 1:40:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.
AES' certifications are as follows:
-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/13-06/30/14.
-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/15.

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

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

Chantelle Kanhai
Project Manager

3080 Presidential Drive • Atlanta, Georgia 30340 • Tel: 770.457.8177 • Fax: 770.457.8188 • Toll Free: 800.972.4889
www.aesatlanta.com

ANALYTICAL ENVIRONMENTAL SERVICES, INC
3785 Presidential Parkway, Atlanta GA 30340-3704
TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1404694

Date: 4/16/14 Page: 1 of 1

COMPANY:
ER GROUP LLC
Victor Owens

ADDRESS:
1937 Quail Run
Lawrenceville, GA 30044

PHONE: (404) 353-7744

FAX: 770-339-3710

SAMPLED BY: V Owens

SIGNATURE:

ANALYSIS REQUESTED: VOCs

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 Below)	VOCs	REMARKS	No # of Containers
1	NOTREAT-1	4/16/14	8:00	√		O	●	No added chems/high PCE	4
2	8GKPERM	4/16/14	8:00	√		O	●	Contains KMnO4	4
3	8GNASF	4/16/14	8:00	√		O	●	Contains Na2(SO4)2	4
4	15GNASF	4/16/14	8:00	√		O	●	Contains Na2(SO4)2	4
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									16

PRESERVATION (See Codes)

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
1 VOwens	4-16-14 13:40	1 Cartaya R	4/16/14 1:40p
2		2	
3		3	

PROJECT INFORMATION
PROJECT NAME: **Oxford Treatability**
PROJECT : **Oxford**
SITE ADDRESS: **Peachtree Ind, Chamblee, GA**
SEND REPORT TO: **vowens@envrg.net**
INVOICE TO: **ER GROUP LLC**
(IF DIFFERENT FORM 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:
VOCs 8260 ** Report ONLY PCE, TCE and Dichlorobenzenes

SHIPMENT METHOD
OUT / / VIA:
IN / / VIA:
(CLIENT) FedEx UPS MAIL COURIER GREYHOUND OTHER _____

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT.
SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) O = Other (specify)

PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

Client: ER Group, LLC
Project: Oxford Treatability
Lab ID: 1404G94

Case Narrative

Sample Receiving Nonconformance:

Sample 1404G94-003 was labeled as "8GNASU" on the sample container and 1404G94-004 as "15GNASU". The samples were logged in according to the information provided on the Chain of Custody.

Analytical Environmental Services, Inc **Date:** 18-Apr-14

Client:	ER Group, LLC	**Client Sample ID:**	NOTREAT-1
Project Name:	Oxford Treatability	**Collection Date:**	4/16/2014 8:00:00 AM
Lab ID:	1404G94-001	**Matrix:**	Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5035)**				
1,2-Dichlorobenzene	84000	24000		ug/Kg-dry	189814	5000	04/17/2014 21:35	MD
1,3-Dichlorobenzene	1500	240		ug/Kg-dry	189814	50	04/17/2014 04:03	MD
1,4-Dichlorobenzene	5300	240		ug/Kg-dry	189814	50	04/17/2014 04:03	MD
Tetrachloroethene	140000	24000		ug/Kg-dry	189814	5000	04/17/2014 21:35	MD
Trichloroethene	18000	2400		ug/Kg-dry	189814	500	04/17/2014 19:43	MD
Surr: 4-Bromofluorobenzene	96.8	70-128		%REC	189814	5000	04/17/2014 21:35	MD
Surr: 4-Bromofluorobenzene	108	70-128		%REC	189814	500	04/17/2014 19:43	MD
Surr: 4-Bromofluorobenzene	115	70-128		%REC	189814	50	04/17/2014 04:03	MD
Surr: Dibromofluoromethane	97	78.2-128		%REC	189814	50	04/17/2014 04:03	MD
Surr: Dibromofluoromethane	103	78.2-128		%REC	189814	500	04/17/2014 19:43	MD
Surr: Dibromofluoromethane	106	78.2-128		%REC	189814	5000	04/17/2014 21:35	MD
Surr: Toluene-d8	97.3	76.5-116		%REC	189814	5000	04/17/2014 21:35	MD
Surr: Toluene-d8	97.7	76.5-116		%REC	189814	50	04/17/2014 04:03	MD
Surr: Toluene-d8	98.2	76.5-116		%REC	189814	500	04/17/2014 19:43	MD
PERCENT MOISTURE D2216								
Percent Moisture	18.9	0		wt%	R265817	1	04/17/2014 10:00	EH

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 18-Apr-14

Client:	ER Group, LLC	**Client Sample ID:**	8GKPERM
Project Name:	Oxford Treatability	**Collection Date:**	4/16/2014 8:00:00 AM
Lab ID:	1404G94-002	**Matrix:**	Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5035)**				
1,2-Dichlorobenzene	49000	4800		ug/Kg-dry	189814	1000	04/17/2014 20:11	MD
1,3-Dichlorobenzene	1700	240		ug/Kg-dry	189814	50	04/17/2014 08:05	MD
1,4-Dichlorobenzene	2900	240		ug/Kg-dry	189814	50	04/17/2014 08:05	MD
Tetrachloroethene	46000	4800		ug/Kg-dry	189814	1000	04/17/2014 20:11	MD
Trichloroethene	680	240		ug/Kg-dry	189814	50	04/17/2014 08:05	MD
Surr: 4-Bromofluorobenzene	112	70-128		%REC	189814	50	04/17/2014 08:05	MD
Surr: 4-Bromofluorobenzene	102	70-128		%REC	189814	1000	04/17/2014 20:11	MD
Surr: Dibromofluoromethane	101	78.2-128		%REC	189814	50	04/17/2014 08:05	MD
Surr: Dibromofluoromethane	105	78.2-128		%REC	189814	1000	04/17/2014 20:11	MD
Surr: Toluene-d8	94.7	76.5-116		%REC	189814	50	04/17/2014 08:05	MD
Surr: Toluene-d8	97.5	76.5-116		%REC	189814	1000	04/17/2014 20:11	MD
PERCENT MOISTURE D2216								
Percent Moisture	34.7	0		wt%	R265817	1	04/17/2014 10:00	EH

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 18-Apr-14

Client:	ER Group, LLC	**Client Sample ID:**	8GNASF
Project Name:	Oxford Treatability	**Collection Date:**	4/16/2014 8:00:00 AM
Lab ID:	1404G94-003	**Matrix:**	Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5035)**				
1,2-Dichlorobenzene	42000	6200		ug/Kg-dry	189814	1000	04/17/2014 20:39	MD
1,3-Dichlorobenzene	1300	310		ug/Kg-dry	189814	50	04/17/2014 08:33	MD
1,4-Dichlorobenzene	2300	310		ug/Kg-dry	189814	50	04/17/2014 08:33	MD
Tetrachloroethene	56000	6200		ug/Kg-dry	189814	1000	04/17/2014 20:39	MD
Trichloroethene	4000	310		ug/Kg-dry	189814	50	04/17/2014 08:33	MD
Surr: 4-Bromofluorobenzene	114	70-128		%REC	189814	50	04/17/2014 08:33	MD
Surr: 4-Bromofluorobenzene	100	70-128		%REC	189814	1000	04/17/2014 20:39	MD
Surr: Dibromofluoromethane	99.4	78.2-128		%REC	189814	50	04/17/2014 08:33	MD
Surr: Dibromofluoromethane	102	78.2-128		%REC	189814	1000	04/17/2014 20:39	MD
Surr: Toluene-d8	97.3	76.5-116		%REC	189814	50	04/17/2014 08:33	MD
Surr: Toluene-d8	97.7	76.5-116		%REC	189814	1000	04/17/2014 20:39	MD
PERCENT MOISTURE D2216								
Percent Moisture	37.2	0		wt%	R265817	1	04/17/2014 10:00	EH

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 18-Apr-14

Client:	ER Group, LLC	**Client Sample ID:**	15GNASF
Project Name:	Oxford Treatability	**Collection Date:**	4/16/2014 8:00:00 AM
Lab ID:	1404G94-004	**Matrix:**	Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5035)**				
1,2-Dichlorobenzene	41000	2200		ug/Kg-dry	189814	500	04/17/2014 21:07	MD
1,3-Dichlorobenzene	1200	220		ug/Kg-dry	189814	50	04/17/2014 15:05	MD
1,4-Dichlorobenzene	2100	220		ug/Kg-dry	189814	50	04/17/2014 15:05	MD
Tetrachloroethene	51000	2200		ug/Kg-dry	189814	500	04/17/2014 21:07	MD
Trichloroethene	4600	220		ug/Kg-dry	189814	50	04/17/2014 15:05	MD
Surr: 4-Bromofluorobenzene	101	70-128		%REC	189814	500	04/17/2014 21:07	MD
Surr: 4-Bromofluorobenzene	111	70-128		%REC	189814	50	04/17/2014 15:05	MD
Surr: Dibromofluoromethane	101	78.2-128		%REC	189814	50	04/17/2014 15:05	MD
Surr: Dibromofluoromethane	108	78.2-128		%REC	189814	500	04/17/2014 21:07	MD
Surr: Toluene-d8	97.7	76.5-116		%REC	189814	50	04/17/2014 15:05	MD
Surr: Toluene-d8	98.7	76.5-116		%REC	189814	500	04/17/2014 21:07	MD
PERCENT MOISTURE D2216								
Percent Moisture	37.4	0		wt%	R265817	1	04/17/2014 10:00	EH

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 EF Group Work Order Number 1404694

Checklist completed by [signature] 4/16/14
Signature Date

Carrier name: FedEx __ UPS __ Courier __ Client ✓ US Mail __ Other _____

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

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

Custody seals intact on sample bottles? Yes __ No __ Not Present ✓

Container/Temp Blank temperature in compliance? (4°C±2)* Yes ✓ No __

Cooler #1 3.2 Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present? Yes ✓ No __

Chain of custody signed when relinquished and received? Yes ✓ No __

Chain of custody agrees with sample labels? Yes X CK 4/16/14 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.

\L\Quality Assurance\Checklists Procedures Sign-Off Templates\Checklists\Sample Receipt Checklists\Sample_Cooler_Receipt_Checklist

Client: ER Group, LLC
Project Name: Oxford Treatability
Workorder: 1404G94

ANALYTICAL QC SUMMARY REPORT

BatchID: 189814

Sample ID: **MB-189814** Client ID: Units: **ug/Kg** Prep Date: **04/16/2014** Run No: **265664**
SampleType: **MBLK** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **189814** Analysis Date: **04/16/2014** Seq No: **5598386**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,2-Dichlorobenzene	BRL	250									
1,3-Dichlorobenzene	BRL	250									
1,4-Dichlorobenzene	BRL	250									
Tetrachloroethene	BRL	250									
Trichloroethene	BRL	250									
Surr: 4-Bromofluorobenzene	2516	0	2500		101	70	128				
Surr: Dibromofluoromethane	2548	0	2500		102	78.2	128				
Surr: Toluene-d8	2462	0	2500		98.5	76.5	116				

Sample ID: **LCS-189814** Client ID: Units: **ug/Kg** Prep Date: **04/16/2014** Run No: **265664**
SampleType: **LCS** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **189814** Analysis Date: **04/16/2014** Seq No: **5600460**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Trichloroethene	2678	250	2500		107	71.7	136				
Surr: 4-Bromofluorobenzene	2639	0	2500		106	70	128				
Surr: Dibromofluoromethane	2510	0	2500		100	78.2	128				
Surr: Toluene-d8	2537	0	2500		101	76.5	116				

Sample ID: **1404G27-010AMS** Client ID: Units: **ug/Kg-dry** Prep Date: **04/16/2014** Run No: **265664**
SampleType: **MS** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **189814** Analysis Date: **04/16/2014** Seq No: **5600461**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Trichloroethene	2415	220	2190		110	70.1	137				
Surr: 4-Bromofluorobenzene	2334	0	2190		107	70	128				
Surr: Dibromofluoromethane	2146	0	2190		98.0	78.2	128				
Surr: Toluene-d8	2230	0	2190		102	76.5	116				

Qualifiers:

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

Client: ER Group, LLC
Project Name: Oxford Treatability
Workorder: 1404G94

ANALYTICAL QC SUMMARY REPORT

BatchID: **189814**

Sample ID: **1404G27-010AMSD** Client ID: Units: **ug/Kg-dry** Prep Date: **04/16/2014** Run No: **265664**
SampleType: **MSD** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **189814** Analysis Date: **04/16/2014** Seq No: **5600462**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Trichloroethene	2314	220	2190		106	70.1	137	2415	4.26	17	
Surr: 4-Bromofluorobenzene	2289	0	2190		105	70	128	2334	0	0	
Surr: Dibromofluoromethane	2180	0	2190		99.5	78.2	128	2146	0	0	
Surr: Toluene-d8	2161	0	2190		98.7	76.5	116	2230	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

April 24, 2014

Victor Owens
ER Group, LLC
1937 Quail Run
Lawrenceville GA 30044

TEL: (770) 339-3710
FAX:

RE: Oxford Treatability

Dear Victor Owens: Order No: 1404K52

Analytical Environmental Services, Inc. received 2 samples on 4/19/2014 12:25:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.
AES' certifications are as follows:
-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/13-06/30/14.
-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/15.

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

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

Chantelle Kanhai
Project Manager

3080 Presidential Drive • Atlanta, Georgia 30340 • Tel: 770.457.8177 • Fax: 770.457.8188 • Toll Free: 800.972.4889
www.aesatlanta.com

ANALYTICAL ENVIRONMENTAL SERVICES, INC
3785 Presidential Parkway, Atlanta GA 30340-3704
TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1404K5X2 6m 4/19/14

Date: 4/19/14 Page: 1 of 1

COMPANY: ER GROUP LLC
Victor Owens

ADDRESS: 1937 Quail Run
Lawrenceville, GA 30044

PHONE: (404) 353-7744

FAX: 770-339-3710

SAMPLED BY: V Owens

SIGNATURE:

ANALYSIS REQUESTED: VOCs

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 Below)	VOCs	REMARKS	No # of Containers
1	12GKPERM	4/19/14	9:00	√		O	●	Contains KMnO4	4
2	20GNASU	4/19/14	9:00	√		O	●	Contains Na2(SO4)2	4
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									8

PRESERVATION (See Codes)

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
1 V Owens	4-19-14 12:25	1 [illegible]	4/19/14 12:25
2		2	
3		3	

PROJECT INFORMATION
PROJECT NAME: Oxford Treatability
PROJECT : Oxford
SITE ADDRESS: Peachtree Ind, Chamblee, GA
SEND REPORT TO: vowens@envrg.net
INVOICE TO: ER GROUP LLC
(IF DIFFERENT FORM 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:
VOCs 8260 ** Report ONLY PCE, TCE and Dichlorobenzenes

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

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT.
SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) O = Other (specify)

PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

Analytical Environmental Services, Inc **Date:** 24-Apr-14

Client:	ER Group, LLC	**Client Sample ID:**	12GKPERM
Project Name:	Oxford Treatability	**Collection Date:**	4/19/2014 9:00:00 AM
Lab ID:	1404K52-001	**Matrix:**	Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5035)**				
1,2-Dichlorobenzene	1500	260		ug/Kg-dry	190016	50	04/22/2014 23:37	GK
1,3-Dichlorobenzene	96	5.2		ug/Kg-dry	190016	1	04/21/2014 18:45	NH
1,4-Dichlorobenzene	170	5.2		ug/Kg-dry	190016	1	04/21/2014 18:45	NH
Tetrachloroethene	230	100		ug/Kg-dry	190016	50	04/22/2014 23:37	GK
Trichloroethene	150	5.2		ug/Kg-dry	190016	1	04/21/2014 18:45	NH
Surr: 4-Bromofluorobenzene	99.4	70-128		%REC	190016	50	04/22/2014 23:37	GK
Surr: 4-Bromofluorobenzene	101	70-128		%REC	190016	1	04/21/2014 18:45	NH
Surr: Dibromofluoromethane	101	78.2-128		%REC	190016	50	04/22/2014 23:37	GK
Surr: Dibromofluoromethane	96.8	78.2-128		%REC	190016	1	04/21/2014 18:45	NH
Surr: Toluene-d8	91.2	76.5-116		%REC	190016	50	04/22/2014 23:37	GK
Surr: Toluene-d8	95.8	76.5-116		%REC	190016	1	04/21/2014 18:45	NH
PERCENT MOISTURE D2216								
Percent Moisture	41.4	0		wt%	R266013	1	04/21/2014 10:00	EH

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:** 24-Apr-14

Client:	ER Group, LLC	**Client Sample ID:**	20GNASU
Project Name:	Oxford Treatability	**Collection Date:**	4/19/2014 9:00:00 AM
Lab ID:	1404K52-002	**Matrix:**	Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5035)**				
1,2-Dichlorobenzene	2300	510		ug/Kg-dry	190016	50	04/23/2014 00:05	GK
1,3-Dichlorobenzene	BRL	10		ug/Kg-dry	190016	1	04/22/2014 17:39	MD
1,4-Dichlorobenzene	300	10		ug/Kg-dry	190016	1	04/22/2014 17:39	MD
Tetrachloroethene	600	510		ug/Kg-dry	190016	50	04/23/2014 00:05	GK
Trichloroethene	110	10		ug/Kg-dry	190016	1	04/22/2014 17:39	MD
Surr: 4-Bromofluorobenzene	104	70-128		%REC	190016	50	04/23/2014 00:05	GK
Surr: 4-Bromofluorobenzene	83	70-128		%REC	190016	1	04/22/2014 17:39	MD
Surr: Dibromofluoromethane	101	78.2-128		%REC	190016	50	04/23/2014 00:05	GK
Surr: Dibromofluoromethane	94.6	78.2-128		%REC	190016	1	04/22/2014 17:39	MD
Surr: Toluene-d8	94.8	76.5-116		%REC	190016	50	04/23/2014 00:05	GK
Surr: Toluene-d8	96.9	76.5-116		%REC	190016	1	04/22/2014 17:39	MD
PERCENT MOISTURE D2216								
Percent Moisture	39.9	0		wt%	R266013	1	04/21/2014 10:00	EH

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 ER Group Work Order Number 1404K52

Checklist completed by [signature] 4/19/14
Signature Date

Carrier name: FedEx __ UPS __ Courier __ Client ✓ US Mail __ Other _____

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

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

Custody seals intact on sample bottles? Yes __ No __ Not Present ✓

Container/Temp Blank temperature in compliance? (4°C±2)* Yes ✓ No __

Cooler #1 3.2°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.

\L\Quality Assurance\Checklists Procedures Sign-Off Templates\Checklists\Sample Receipt Checklists\Sample_Cooler_Receipt_Checklist