PRE-CONSTRUCTION REPORT

FORMER EATON CORPORATION FACILITY
1100 EAST PRESTON STREET
SELMA, JOHNSTON COUNTY, NORTH CAROLINA
LONGITUDE W78°17'02", LATITUDE N35°31'33"
NONCD 0002853

Prepared for:
Eaton Corporation, Inc.
1000 Eaton Boulevard
Cleveland, OH 44122

Prepared by:
Solutions-IES, Inc.
1101 Nowell Road
Raleigh, NC 27607
919-873-1060

Solutions-IES Project No. 2013.0014.EATN

September 16, 2013

NORTH CAROLINA PROFESSIONAL SEAL 036129 9/16/13 ENGINEER JODY L. OVERMYER

Jody L. Overmyer, P.E.
Project Manager

M. Tony Lieberman, RSM
Senior Consultant

Solutions-IES
Industrial & Environmental Services

Solutions-IES
Industrial & Environmental Services

1101 Nowell Road ■ Raleigh, NC 27607
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September 17, 2013

Mr. Kim Caulk, P.G.
Inactive Hazardous Sites Branch – REC Program
NCDENR Division of Waste Management
1646 Mail Service Center
Raleigh, NC 27699-1646

Via E-mail: kim.caulk@ncdenr.gov

RE**:** **Pre-Construction Report**
Eaton Corporation Former Facility
1100 East Preston Street
Selma, NC
NCDENR Site ID No. NONCD 0002853
Solutions-IES Project No. 2013.0014.EATN

Dear Mr. Caulk,

Solutions-IES, Inc. (Solutions-IES), on behalf of Eaton Corporation (Eaton), has prepared this Pre-Construction Report for the former Eaton facility located at 1100 East Preston Street in Selma, NC. Remedy implementation, which begins with injection well and monitoring well installation, is scheduled to begin September 16, 2013.

If you have any questions or need any additional information, please feel free to contact me at (919) 873-1060.

Yours truly,
Solutions-IES, Inc.

Jody Overmyer, P.E.
Project Manager

Attachment 1 – Certification Statements
Attachment 2 – Pre-Construction Report

cc: Ms. Karen Souza, P.G., Allegheny Environmental Services, Inc.
Mr. Jeffery P. Allen, P.G, Eaton Corporation
Mr. Bill Sharek, Johnston County Industries

ATTACHMENT 1

CERTIFICATION STATEMENTS

REC PROGRAM DOCUMENT CERTIFICATION FORM - PAGE 1 OF 2
IHSB SITE NAME NONCD 0002853 / Former Eaton Selma
DATE & NAME OF DOCUMENT 9/16/2013 Pre-Construction Report
TYPE OF SUBMITTAL (circle all that apply): Report, Work plan, Work Phase Comp. Statement, Schedule Change

REMEDIATING PARTY DOCUMENT CERTIFICATION STATEMENT (.0306(B)(2))

"I certify under penalty of law that I have personally examined and am familiar with the information contained in this submittal, including any and all documents accompanying this certification, and that, based on my inquiry of those individuals immediately responsible for obtaining the information, the material and information contained herein is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for willfully submitting false, inaccurate or incomplete information."

KAREN E. SOUZA
Name of Remediating Party AGENT FOR EATON

Karen E. Souza
Signature of Remediating Party

9-16-13
Date

NOTARIZATION

Pennsylvania (Enter State)
Allegheny **COUNTY**

I, Joanne C.F. Hart, a Notary Public of said County and State, do hereby certify that Karen E. Souza did personally appear and sign before me this day, produced proper identification in the form of PA Driver's License, was duly sworn or affirmed, and declared that, to the best of his or her knowledge and belief, after thorough investigation, the information contained in the above certification is true and accurate, and he or she then signed this Certification in my presence.

WITNESS my hand and official seal this 16th day of September, 2013.

Joanne C.F. Hart
Notary Public (signature)

(OFFICIAL SEAL)

My commission expires: July 03, 2013

COMMONWEALTH OF PENNSYLVANIA
Notarial Seal
Joanne C. F. Hart, Notary Public
Hampton Twp., Allegheny County
My Commission Expires July 3, 2016
MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES

Document Certification Form No. DC - I
(Revised 8/11)

IHSB SITE NAME NONCD 0002853 / Former Eaton Selma
DATE & NAME OF DOCUMENT 9/16/2013 Pre-Construction Report
TYPE OF SUBMITTAL (circle all that apply): Report, Work plan, Work Phase Comp. Statement, Schedule Change

REGISTERED SITE MANAGER CERTIFICATION OF SIGNATURES

As the Registered Environmental Consultant for the Site for which this filing is made, I certify that the signatures included herewith are genuine and authentic original handwritten signatures and/or true, accurate, and complete copies of the genuine and authentic original handwritten signatures of the persons who purport to sign for this filing. I further certify that I have collected through reliable means the originals and/or copies of said signatures from the persons authorized to sign for this filing who, in fact, signed the originals thereof. Those persons and I understand and agree that any copies of signatures have the same legally binding effect as original handwritten signatures, and I certify that any person for whom I am submitting a copy of their signature has provided me with their express consent to submit said copy. Additionally, I certify that I am authorized to attest to the genuineness and authenticity of the signatures, both originals and any copies, being submitted herewith and that by signing below, I do in fact attest to the genuineness and authenticity of all the signatures, both originals and copies, being submitted for this filing.

M. Tony Lieberman
Name of Registered Site Manager

M. Tony Lieberman
Signature of Registered Site Manager

Date 9/17/13

REGISTERED SITE MANAGER DOCUMENT CERTIFICATION STATEMENT (.0306(b)(1))

"I certify under penalty of law that I am personally familiar with the information contained in this submittal, including any and all supporting documents accompanying this certification, and that the material and information contained herein is, to the best of my knowledge and belief, true, accurate and complete and complies with the Inactive Hazardous Sites Response Act G.S. 130A-310, et seq, and the remedial action program Rules 15A NCAC 13C .0300. I am aware that there are significant penalties for willfully submitting false, inaccurate or incomplete information."

M. Tony Lieberman
Name of Registered Site Manager

M. Tony Lieberman
Signature of Registered Site Manager

Date 9/17/13

NOTARIZATION

North Carolina (Enter State)

Wake **COUNTY**

I, Debra A. Tabron, a Notary Public of said County and State, do hereby certify that M. Tony Lieberman did personally appear and sign before me this day, produced proper identification in the form of Driver's License, was duly sworn or affirmed, and declared that, he or she is the duly authorized environmental consultant of the remediating party of the property referenced above and that, to the best of his or her knowledge and belief, after thorough investigation, the information contained in the above certifications is true and accurate, and he or she then signed these Certifications in my presence.

WITNESS my hand and official seal this 17th day of September, 2013.

Debra A Tabron
Notary Public (signature)

(OFFICIAL SEAL)

DEBRA A. TABRON
Notary Public
Wake County
NORTH CAROLINA

My commission expires: 8.22.15.

REMEDIAL DESIGN COMPLETION CERTIFICATION
15A NCAC 13C.0306(b)(5)(D)

Media (check all that apply): ☐ All Media ☐ Soil ☑ Ground water ☐ Surface water ☐ Sediment

Site Name: Former Eaton Selma
County: Lee
Site ID No.: NONCD 0002853

Street Address: 1100 East Preston Street
Selma, NC 27576

The remedial design, which is the subject of this certification has, to the best of my knowledge, been completed in compliance with the Inactive Hazardous Sites Response Act G.S. 130A-310, et seq. and the remedial action program Rules 15A NCAC 13C .0300, and
Solutions-IES, Inc.
[REC Name]
is in compliance with Rules .0305(b)(2) and .0305(b)(3), of this section. I am aware that there are significant penalties for willfully submitting false, inaccurate or incomplete information.

M. Tony Lieberman
RSM Signature

9/18/13
Date

M. Tony Lieberman
RSM Name

Solutions-IES, Inc.
REC Name

00090
REC No.

1101 Nowell Road
Mailing Address

Raleigh, NC 27607
City, State, ZIP

NOTARIZATION

North Carolina (Enter State)

Wake **COUNTY**

I, Debra A. Tabron, a Notary Public of said County and State, do hereby certify that M. Tony Lieberman did personally appear and sign before me this day, produced proper identification in the form of Driver's License, was duly sworn or affirmed, and declared that, he or she is the duly authorized environmental consultant of the remediating party of the property referenced above and that, to the best of his or her knowledge and belief, after thorough investigation, the information contained in the above certification is true and accurate, and he or she then signed this Certification in my presence.

WITNESS my hand and official seal this 17th day of September, 2013.

Debra A. Tabron
Notary Public (signature)

(OFFICIAL SEAL)
DEBRA A. TABRON
Notary Public
Wake County
NORTH CAROLINA

My commission expires: 8-22-15.

ATTACHMENT 2

PRE-CONSTRUCTION REPORT

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1.0 INTRODUCTION

This Pre-Construction Report has been prepared for the former Eaton Corporation facility located at 1100 East Preston Street in Selma, Johnston County, North Carolina (Eaton Selma). The Eaton Selma Facility is located about 0.5 miles northeast of the intersection of US Highway 95 and NC Highway 70. The site is currently occupied by Johnston County Industries, Inc. (JCI).

The Remedial Action Plan (RAP) for the site dated June 3, 2013, and submitted on June 7, 2013, passed public notice without comment and was certified complete on August 13, 2013 (Solutions-IES, 2013). The RAP recommended implementation of *in situ* bioremediation in groundwater to stimulate biodegradation of chlorinated volatile organic compounds (CVOCs) in the areas of highest impact and monitored natural attenuation (MNA) to control migration in downgradient and side-gradient, less heavily impacted, areas of the plume. Prior to and concurrent with the RAP, two Pre-Design Investigations (PDIs) were conducted in October 2012 and February 2013. The PDI conducted in October 2012 consisted of the following activities:

- Installation of two trenches to enable direct observation of conditions/locations of the sanitary and storm sewers along the northern portion of the site.
- Soil borings to further evaluate contaminant concentrations at various depths at several locations on site.
- A limited test of the effectiveness of an emulsified vegetable oil/colloidal buffer substrate applied to the bottom of the open trenches to initiate anaerobic reductive dechlorination in the shallow groundwater zone.

The PDI conducted in February 2013 consisted of the following activities:

- Installation of one temporary monitoring well using Geoprobe screen point sampler to collect groundwater from four distinct depths between15 and 28 feet below ground surface (ft bgs) to evaluate vertical profiles of CVOCs, and acidity and alkalinity from one depth.
- Collection of soil from several borings for various tests including: soil acidity and base demand, specific dechlorinating microbial populations and functional genes, soil oxidant demand, and total organic carbon, pH and grain size.

Data from the PDIs supported the remedy choice and were included in the underground injection control (UIC) permit application (**Appendix A**) submitted to NCDENR on July 17, 2013. Subsequent supplemental information requested by NCDENR was submitted on August 23 and September 4, 2013 (**Appendix B**). This Pre-Construction Report describes the results of the PDIs and presents the final design of the groundwater remedy.

2.0 OCTOBER 2012 PDI

Between October 30 and November 1, 2012, PDI activities were conducted at the Eaton Selma site. A summary of the activities is presented below.

Water Level Measurements. A round of water level water level measurements was collected from the existing monitoring well network and piezometers (13 monitoring wells and 6 piezometers) (**Table 1**). Depth to groundwater was measured around 9 ft bgs. The groundwater elevations on October 30, 2012, ranged from 4.23 to 4.77 ft deeper in the permanent monitoring wells compared to the elevations measured in April 2012. This large change to the groundwater table elevation is not inconsistent with other large fluctuations that have been observed historically and may be partially responsible for smearing VOCs from groundwater up into the soil and providing a continuing source of VOC contamination to groundwater.

***Groundwater Sampling and Analysis*.** MW-4 and MW-8 were purged and sampled using low-flow methodology. During purging, field measurements including temperature, dissolved oxygen (DO), oxidation-reduction potential (ORP), pH, and conductivity were collected. The field parameters are shown on **Table 2**. The data suggest generally oxidative conditions, characterized by elevated DO (2 to 3 mg/L) and strongly positive ORP in both MW-4 (+413 mV) and MW-8 (+305 mV).

Groundwater samples from MW-4 and MW-8 were submitted to SGS Laboratory in Wilmington, NC for laboratory analysis of VOCs by EPA Method 8260B. Elevated tetrachloroethene (PCE) was detected in the groundwater samples collected from MW-4 (25,800 micrograms per liter [µg/L]) and MW-8 (874 µg/L) (**Table 3**). The PCE concentration detected in MW-4 noticeably increased by approximately 7,600 µg/L (>40%) since last sampled in July of 2010. The PCE concentration in MW-8 was slightly lower, but similar to the last sampling in July 2010.

Trichloroethene (TCE), *cis*-1,2-dichloroethene (*c*DCE) and vinyl chloride (VC) can be biological breakdown products of PCE. TCE is reported in in both MW-4 (3,380 µg/L) and MW-8 (58.2 µg/L), but little to no *c*DCE or VC were detected.

Video Logging of Underground Utilities. Roto-Rooter Plumbing and Drain Service from Raleigh, NC was contracted to video log the stormwater (SW) and sanitary sewer (SS) piping from approximately the

west edge of the Former Oil Storage Area building to East Preston Street. Upon arrival and inspection of the lines, the Roto-Rooter operator indicated that the camera that he had brought to the site was too small to properly advance and video log through the SW pipe. Solutions-IES followed up with calls to Roto-Rooter to learn that the appropriate camera would cost $8,500/day to rent. Thus, this rental was declined and the SW was not video logged. The video log of the SS pipe was completed and showed root penetration into the pipe at approximately 10 joints. Two stained areas of seepage were noted at the top of the joints with no roots present.

Trenching, Soil Sampling and Disposal. Trenching operations were performed at two locations intersecting the SW and SS running east-west along the northern portion of the property. KCI Associates of North Carolina, P.A., a private utility-locating company from Raleigh, NC, marked the SW and SS locations before digging. Excavation and disposal was conducted by Evo Corporation (Evo) of Winston-Salem, NC. Below is a description of each of the trenches and the results of analysis on soils collected from each trench.

East Trench

The east trench lithology consisted primarily of silt from ground surface to approximately 7 ft bgs. Clay was noticed beginning around 4 to 6 ft bgs and the silt changed to clay by approximately 7 ft bgs. The top of the SW pipe was encountered at approximately 3.5 ft bgs. The SS pipe was located approximately 5 ft north from the location marked by the utility locator at a depth of approximately 7 ft bgs. Due to the inaccurate ground marking, the SS pipe was accidentally damaged during trenching. The Town of Selma was notified and the SS line was repaired the following day by the Town of Selma. The final dimensions of the east trench were approximately 6.5 ft wide by 12 ft long by 8 ft deep. Excavated soil was placed in roll-off boxes pending analysis and disposal.

Two soil samples were collected in the east trench, one from beneath the SW (East Trench Bedding–SW) at approximately 5.5 ft bgs and one from beneath the SS (East Trench Bedding–SS) at approximately 8 ft bgs. The samples were submitted for laboratory for analysis of VOCs by EPA Method 8260B and TCLP VOCs. The soil collected from beneath the SS and SW pipes contained 3,430 and 3,580 micrograms per kilogram (µg/kg) PCE, respectively. The soil also contained 239 and 112 µg/kg TCA. There are also low concentrations of breakdown products of these primary constituents. TCLP VOC extraction resulted in 8.80 and 12.4 µg/L PCE from the SS and SW soil samples, respectively.

West Trench

The west trench lithology was similar to the east trench (i.e., silt to approximately 5 ft bgs followed by clay to the trench depth of 8 ft bgs). The top of SW pipe was observed at approximately 2.3 ft bgs. A 1-inch wide gap was observed at the SW joint that was uncovered during trenching, and moist soil was observed near the joint. A water sample was collected from the leak in the SW line in the center of the trench (West Trench Water). PCE (15.9 µg/L), TCE (3.21 µg/L), TCA (2.20 µg/L), and low concentrations of their breakdown products, were reported in this water sample. The top of the SS was located approximately 4.8 ft bgs. The final dimensions of the west trench were approximately 5 ft wide by 8 ft long by 8 ft deep. Excavated soil was placed in roll-off boxes pending analysis and disposal.

Two soil samples were collected in the west trench, one from beneath the SW (West Trench Bedding-SW) at approximately 4.5 ft bgs and one from beneath the SS (West Trench Bedding-SS) at approximately 6 ft bgs. The samples were submitted to the laboratory for analysis of VOCs by EPA Method 8260B and TCLP VOCs. The soil collected from beneath the SS and SW pipes contained 9,730 and 2,530 µg/kg PCE, respectively. The soil also contained estimated concentrations of 130 and 54.3 µg/kg TCA. There are also low concentrations of breakdown products of these constituents. TCLP VOC extraction resulted in 38.2 µg/L PCE from the SS and an estimated concentration of 9.80 µg/L PCE from the SW soil samples.

Soil Disposal

Soil excavated from the trenches was placed in three roll-off boxes. One 2-point composite soil sample from each roll-off box was collected and submitted for laboratory analysis of VOCs by EPA Method 8260B and TCLP VOCs. The highest concentrations reported in the three boxes included PCE (1,050 µg/kg), TCE (38.7 µg/kg), TCA (44.4 µg/kg), *c*DCE (44.4 µg/kg), and 1,1-DCE (14.8 µg/kg). The results of the TCLP VOC extractions showed no detections above the laboratory detection limit; therefore, the soil was classified as characteristically non-hazardous. Evo transported the soil for disposal at their facility in Winston-Salem, NC.

Geoprobe Soil Sampling. A truck-mounted Geoprobe® was used to advance 4-ft long Macro-core® soil sampling sleeves to a depth of 8 ft bgs at six locations designated SB-40 through SB-45 (**Figure 1**). The sleeves were opened and a photoionization detector (PID) was used to scan the soil in 1-ft increments. A soil sample was collected from each foot and submitted for laboratory VOC analysis by EPA Method 8260B. A summary of the soil boring data is provided in **Table 4**. The data were compared to both the Preliminary Residential Health-Based Remediation Goals (PSRG) and the Protection of Groundwater (POG) standard as required under the NCDENR's REC Program unrestricted use remediation scenario.

NCDENR's REC Program does allow for restricted use and comparison of soil values to industrial/commercial cleanup levels; however, the POG values must be met. The POG shown for PCE is the site-specific value calculated from a leachability study performed at the site in April 2012. A report of the leachability study will be provided in the Soil Remedial Action Plan to be submitted at a later date.

PCE was found above the POG standard in every boring at every interval from 4 to 8 ft bgs. PCE was also above the PSRG from 4 to 8 ft bgs in SB-42 and SB-44. PCE was above the PSRG from 5 to 8 ft bgs in SB-43. Elevated TCE and some *c*DCE generally followed areas with elevated PCE. TCA was not nearly as prevalent in the soil profiles as it was in the groundwater, other than in SB-42. In general, VOC concentrations appear to increase at depths greater than 4 to 5 ft bgs, which coincides with the depth of the SW and SS lines.

Substrate Application and Trench Restoration. After each trench had been opened, logged, and sampled, an emulsified vegetable oil substrate with colloidal buffer was poured into the base of the excavation in an effort to promote reductive dechlorination where none had been seen previously. One drum of AquaBupH (~53 gallons)[1] and approximately 500 gallons of tap water were poured into the bottom of each trench. The water was obtained, with permission, from the spigot on the JCI building . Following the application, each trench was backfilled with approximately 2 feet of stone followed by sand to approximately 6 inches bgs. Minimal compaction was conducted and topsoil was added in the top 6 inches. The disturbed area was then seeded and covered with straw.

3-Month Post Substrate Application Sampling. On January 31, 2013, MW-4 and MW-8 were purged and sampled using low-flow methodology. During purging, field measurements including temperature, DO, ORP, pH, and conductivity were collected. The field parameters are shown on **Table 2**. DO values dropped in comparison to the October 2012 sampling event (from 2.7 mg/L to 0.6 mg/L in MW-4, and from 2.2 mg/L to 0.6 mg/L in MW-8). However, ORP values remained relatively the same from the October 2012 sampling event (+401 mV in MW-4 and +352 mV in MW-8).

Groundwater samples from MW-4 and MW-8 were submitted to SGS Laboratory in Wilmington, NC for laboratory analysis of VOCs by EPA Method 8260B. Elevated PCE was again detected in the groundwater samples collected from MW-4 (37,000 µg/L) and MW-8 (2,100 µg/L) (**Table 3**). The PCE concentration detected in MW-4 again noticeably increased, this time by approximately 11,200 µg/L

[1] AquaBupH™ is a buffered emulsified vegetable oil product manufactured and sold by EOS Remediation, LLC, Raleigh, NC.

(>40%) in three months since last sampled in October 2012. The PCE concentration detected in MW-8 noticeably increased by approximately 1,200 µg/L (>100%) in three months since last sampled October 2012.

Analytical laboratory reports are provided in **Appendix C**. A description of the trenching activities is provided in the field notes in **Appendix D**. The trench records describing soil lithology and utilities encountered is provided in **Appendix E**.

3.0 FEBRUARY 2013 PDI

Between February 27 and 28, 2013, additional PDI activities were conducted at the Eaton Selma site. A summary of the activities is presented below.

Geoprobe Soil Sampling. A truck-mounted Geoprobe® was used to advance 4-ft long Macro-core® soil sampling sleeves to a depth of 30 ft bgs at two locations designated SB-47 and SB-48 (**Figure 1**). The sleeves were opened and a PID was used to scan the soil in 2-ft increments. Three soil samples were collected from the clayey-silt layer (4-6, 6-8, and 8-10 ft bgs in SB-47 and 6-8, 8-10, and 10-12 ft bgs in SB-48) and three soil samples were collected from the sand and gravel layer (10-12, 16-18, and 18-20 ft bgs in SB-47 and 16-18, 18-20, and 20-22 ft bgs in SB-48) at the three highest PID readings in each type of soil. Soil samples were submitted for laboratory analysis of pH, total organic carbon (TOC), grain size, and base. The six soil samples collected from the both borings in the clayey-silt layer were also analyzed for total oxidant demand (TOD). A summary of the soil boring data is provided in **Table 5**.

The pH ranged from 3.4 to 4.0 standard units (SU) in the clayey-silt layer between 6 and 12 ft bgs and from 4.0 to 4.8 SU in the sand and gravel layer between 12 and 22 ft bgs, indicating that the clayey silt layer was somewhat more acidic than the sand and gravel layer. Consequently, the amount of base required to raise the pH to 7 SU in the shallower clayey silt soils (avg. 59 meq/kg; n=6) was greater than the amount required to raise the pH in the deeper sand and gravel layer (avg. 1.1 meq/kg; n=5).

TOC was reported as less than the laboratory detection limit of 97 milligrams per kilogram (mg/kg) in all soil samples except for SB48-CS-8-10, which was reported as 15,400 mg/kg of TOC. Grain size distribution results confirm the layer description being used as sand-gravel and clayey-silt. TOD results indicate soil shallower than 6 ft bgs in SB-47 and 10 ft bgs in SB-48 have a higher oxidant demand.

The truck-mounted Geoprobe® was also used to advance 4-ft long Macro-core® soil sampling sleeves at two locations adjacent to the trenches installed in October 2012 (designated SB-48 and SB-49) to a depth of 12 ft bgs (**Figure 1**). The sleeves were opened and a PID was used to scan the soil in the 8 to 10 ft bgs and 10 to 12 ft bgs intervals, depths coinciding with the bottom of the trenches and the approximate location where the AquaBupH was applied. Soil samples were collected from the 10 to 12 ft bgs interval at each location and submitted for laboratory analysis of VOCs by EPA Method 8260B, pH, and molecular biological tools (MBTs) including *Dehalococcoides sp.* (DHC), TCE-reductase, BAV-1 VC-reductase, and VC-reductase. A summary of the soil boring data is provided in **Tables 4** and **6**. Elevated concentrations of VOCs were reported in the two soil samples. pH was reported at 3.8 SU in SB-49 and 3.5 in SB-50. Microbial populations were less than laboratory detection limits of 1,000 cells per gram.

AquaBupH has the capability of providing pH buffering to soil and groundwater and supplying organic carbon to promote growth of indigenous microorganisms leading to increased reductive dechlorination. However, the alterations require contact between the substrate, the matrices and microorganisms. The data suggest that impact of AquaBupH added to the bottom of the open trenches 4 months earlier was limited and areas outside the immediate application had not been influenced by the treatment.

Temporary Monitoring Well Installation and Sampling. A screen point sampler was used in one of the borings installed with the truck-mounted Geoprobe® to collect groundwater from four distinct depths between 15 and 28 ft bgs to evaluate the vertical profile of chlorinated VOCs, as well as pH, acidity, alkalinity, and MBTs from one depth. The depths targeted included 15 ft bgs, 20 ft bgs, 25 ft bgs, and 28 ft bgs, with pH, acidity, alkalinity, and MBTs analyzed at the 20 ft bgs depth. TMW-30 was purged and sampled using low-flow methodology. During purging, field measurements including pH, temperature, conductivity, DO, turbidity, and ORP were collected. The field parameters are shown on **Table 2**. A summary of VOC data is provided on **Table 3**, while **Table 7** summarizes the pH, acidity, alkalinity, and MBT results.

The vertical profile of VOCs in TMW-30 indicates higher COC concentrations, particularly PCE, in the 20 to 28 ft bgs range in comparison to the 15 ft bgs depth. This increased concentration at depth is likely due to entrapment of VOCs in the clay soil matrix above the sand and gravel layer. The pH of the 20 ft bgs sample was reported at 6.4 SU. Acidity and alkalinity were measured at 33 and 30 milligrams per liter (mg/L), respectively. No microbial populations/functional genes were detected above the laboratory reporting limit of 10 cells per milliliter (cells/mL).

Analytical laboratory reports are provided in **Appendix F**. A description of the February 2012 PDI activities is provided in the field notes in **Appendix G**. The groundwater sampling logs for TMW-30 is provided in **Appendix H**.

4.0 FINAL ENGINEERING DESIGN REPORT

As first presented in the RAP (Solutions-IES, 2013), 120 injection wells at 60 locations and 5 monitoring wells will be installed to implement and monitor the effectiveness of *in situ* bioremediation using emulsified vegetable oil at the site. Final design information is presented below.

4.1 MONITORING AND INJECTION WELL INSTALLATION

One hundred twenty nested pairs of injection wells at 60 locations and five monitoring wells will be drilled using hollow stem augers. The injection will target two zones within the sand and gravel layer: Zone A and Zone B. Therefore, the Type II injection wells will consist of 2-inch diameter PVC riser attached to 10 feet of 2-inch diameter PVC 0.010-inch slot screens for the Zone A wells, and 7 feet of 2-inch diameter PVC 0.010-inch slot screens for the Zone B wells. Zone A screens will be set from 10 to 20 ft bgs. Zone B screens will be set from 23 to 30 ft bgs. The injection wells will be spaced approximately 30 ft apart (**Figure 1**), although slight field modifications may be required to work around site features. As mentioned above, the Zone A and Zone B screens will be nested in one borehole. A filter sand pack will be placed around the Zone B well screen to approximately 6 inches above the top of screen. Two feet of bentonite followed by another 6 inches of filter sand pack will be placed in the borehole. The Zone A screen will then be set with a filter sand pack around the screen to approximately 2 feet above the top of screen. Bentonite will be used to seal each well to 3 feet above the filter sand pack and the wells will be grouted to the ground surface. During installation, soil lithology will be described from the auger cuttings and boring logs will be prepared.

The five Type II monitoring wells (MW-16, MW-17, MW-18, MW-19, and MW-20) will consist of 2-inch diameter PVC riser attached to 10 feet of 2-inch diameter PVC 0.010-inch slot screens that will be set from 15 to 25 ft bgs. In each of the wells, a filter sand pack will be placed around the well screen to approximately 2-feet above the top of the screen. Bentonite will be used to seal each well to 2 feet above the filter sand pack and the wells will be grouted to the ground surface. During installation, split-spoon samples will be collected in the five monitoring wells to log soil lithology and prepare boring logs. Monitoring well permit WM0500964 has been issued and is included in **Appendix I**.

4.2 SUBSTRATE INJECTION

Substrate injection will be performed in two steps. The first step consists of the use of a colloidal buffer (CoBupH-Mg[2]). Approximately 960 pounds (lbs) (72 gallons) of CoBupH-Mg will be distributed amongst the 120 injection wells. Zone A wells will receive two-thirds of the product volume for each location, and Zone B wells will receive one-third of the product volume for each location. CoBupH-Mg will be diluted with potable water to a ratio of 1:1 prior to injection and then chased with approximately 67 gallons of water in Zone A and 33 gallons of water in Zone B. Step two involves the injection of emulsified vegetable oil and will commence following injection of CoBupH-Mg. Approximately 100,800 lbs (12,720 gallons) of EOS XR[1], a long-lasting emulsified vegetable oil substrate, will be distributed among the 120 injection wells. Similar to the CoBupH-Mg injection, Zone A wells will receive two-thirds of the product volume for each location, and Zone B wells will receive one-third of the product volume for each location. EOS XR will be diluted with water to a ratio of 1:5 (1 part substrate to 5 parts water). The EOS XR injection will be followed by chase water to flush the oil into the aquifer. Approximately 2,255 gallons of chase water per Zone A injection well and 2,715 gallons of chase water per Zone B injection well will be added. The volume of chase water may be adjusted in the field based on aquifer response to the injection.

Overall substrate injection will occur in two phases: each phase will consist of 60 injection wells at 30 locations, with between 20 and 30 injection wells manifolded together at one time. It is expected that the injection rate will be approximately 1 gallon per minute (gpm) in Zones A and B with pressures less than 10 pounds per square inch (psi) in Zone A and 15 psi in Zone B. Potable water will be obtained from either the spigot located on the JCI building, or the hydrant located at the northern entrance to the facility off of East Preston Street. Injection permit WI0500657 has been issued and is included in **Appendix J**.

Approximately 1 month following injection completion (and when the aquifer pH has increased and a reducing environment has been established), approximately 120 liters of bioaugmentation culture will then be injected into each injection wells (1 liter per well), followed by approximately 53 gallons of chase water. The bioaugmentation culture (BAC-9)[3] contains a high concentration of *Dehalococcoides sp*., the microbial species needed to carry reductive dechlorination to completion. A summary of the substrate injection process is provided in **Table 8**.

[2] CoBupH-Mg and EOS XR are products of EOS Remediation, LLC. Both are approved for use in North Carolina.
[3] BAC-9 is provided by EOS Remediation, LLC. BAC-9 is approved for use in North Carolina.

4.3 UPDATED PROJECT SCHEDULE

Monitoring and injection well installation is scheduled to begin September 16, 2013. Assuming that start date, baseline sampling will be conducted on or about October 7-8, 2013. Phase 1 injection activities are scheduled to begin on or about October 21, 2013, with Phase 2 injection activities scheduled to begin on or about November 13, 2013. A project schedule is included in **Appendix K**.

4.4 PERFORMANCE MONITORING

Post-injection monitoring events near the injection site will be conducted at 3 months, 6 months, 9 months, and 12 months following the completion of Phase 2 injection activities. Since monitored natural attenuation (MNA) is the selected remedy for outlying areas beyond the active treatment perimeter, quarterly MNA monitoring in the first year will be scheduled in conjunction with post-injection monitoring. The performance monitoring program at the site will consist of a series of monitoring wells located within the plume, between the plume and the receptors, and at the lateral and vertical boundaries of the plume. The performance monitoring program is summarized in **Table 9**. MNA monitoring events beyond Year 0 (quarterly) will be scheduled semi-annually during Years 1 through 5, and then annually until Year 15.

During each monitoring event, water levels will be measured using an electronic water level indicator to collect water level data that will be used to interpret groundwater flow direction. Each well will be purged using a peristaltic pump with new polyethylene tubing used at each location. Purging will continue at a low flow rate until the field parameters of pH (± 0.1 standard unit), specific conductivity (± 5%), and turbidity (< 10 nephelometric turbidity units) stabilize. Measurements of temperature, DO, and ORP will also be recorded. Samples will be collected into laboratory-supplied 40 ml glass volatile organic analysis (VOA) vials for VOC analysis.

Natural attenuation parameters and MBTs will be collected initially at the frequency shown on **Table 9**, then semi-annually through Year 5 and one event each year thereafter to monitor the aquifer conditions. The samples will be stored on ice and shipped to a certified environmental laboratory. Monitoring reports will be prepared at least on an annual basis to document monitoring activities and remedy performance. The reports will contain the analytical data, groundwater elevation data, and figures indicating the groundwater flow contours and the PCE plume location. The reports will include the following:

- Groundwater elevation figure(s) and table(s);
- Graph of PCE concentration versus time for selected wells;

- Figure depicting the lateral extent of PCE;
- A statistical analyses of PCE concentration trends (after 2 years of data have been obtained); and
- An evaluation of the effectiveness of the natural attenuation remedy and evaluation of the need to implement a contingent remedy.

After 5 years of monitoring, the data will be evaluated to determine if any wells can be eliminated from the sampling program and statistical analyses (Mann-Kendall or Mann-Whitney tests) will be conducted to evaluate contaminant trends in wells located within the plume. The tests are non-parametric and have been used at other sites to analyze the stability of contaminant plumes. The results of the statistical analyses will be used to evaluate the effectiveness of the groundwater monitoring program. After 5 years of monitoring, the data will be evaluated and a decision will be made regarding the extent and frequency of continued monitoring.

4.5 PROGRESS REPORTING

According to UIC permit WI0500657, sample results are required to be submitted to the Aquifer Protection Section (APS) quarterly within the first year after injection. Sample results will be transmitted in table format to the APS. A final project evaluation report is required to be submitted to the APS within 9 months after completing all injection-related activity.

The first progress report to the REC Program will be submitted within 90 days of delivery of the Remedial Action Construction Completion Report. Subsequent Progress Reports will be submitted within 90 days of the previous report during the first year following remedy implementation. Following the first full year of remedial action and the completion of four quarterly monitoring events, Progress Reports will be submitted on an annual basis.

4.6 DECONTAMINATION PROCEDURES

Equipment used for injection and sampling activities will arrive on-site in clean condition. With the exception of certified laboratory-cleaned equipment, sampling, testing, or measuring equipment that comes in contact with potentially sampled medium will be decontaminated prior to use, unless it arrives prepackaged by a manufacturer. Equipment will also be decontaminated between sampling locations. If disposable sampling equipment (clean prepackaged materials) is used, it will not be decontaminated before use and will be disposed of properly after one use. Disposable equipment will not be used at more than one sampling location.

If decontamination activities are to take place in the field, a decontamination area will be set up preferably upwind from the sampling area(s) prior to initiating field activities. For decontamination of hand-held sampling equipment, plastic sheeting will be spread on the ground and the decontamination tubs and/or buckets and rinse bottles will be placed in order on top of the plastic.

The following steps for decontamination will be applied to all equipment that will come in contact with the sampling medium. Physically remove as much of the visible material as possible from the sampling equipment after use and before submersing it in decontamination fluids.

- Scrub with nonphosphate detergent (e.g., Liquinox)/potable water solution,
- Rinse with potable water,
- Rinse with deionized water,
- Air dry, as conditions allow, and
- Wrap in aluminum foil or place in a clean resealable plastic bag.

Solvents and/or nitric acid should never be used to decontaminate any electrical or electronic instrumentation, unless specified by the manufacturer. Decontamination fluids should be containerized with other investigation-derived waste (IDW) from the site such as purge water.

4.7 INVESTIGATION-DERIVED WASTE

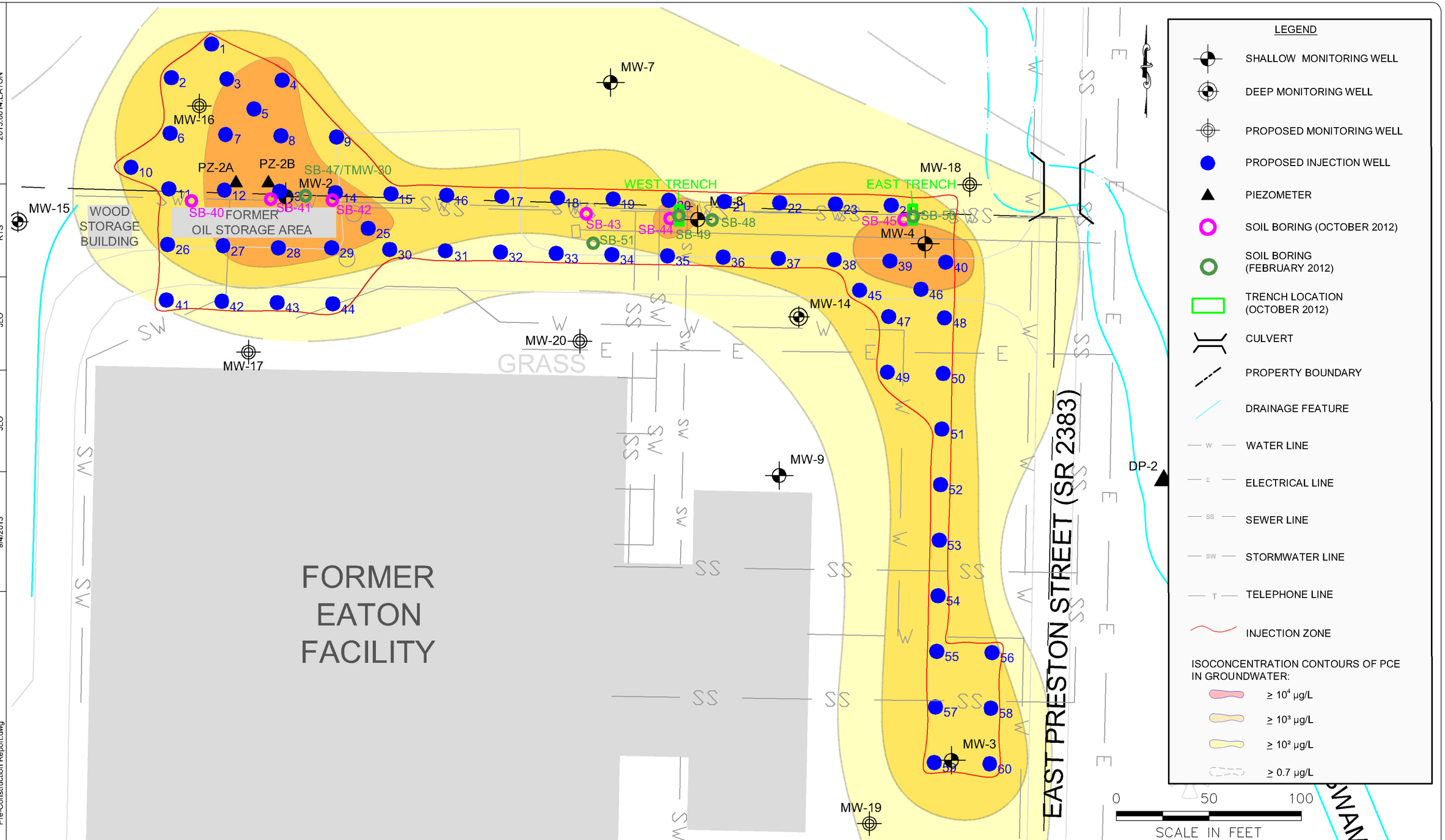
Soil and groundwater IDW generated during remedial activities will be temporarily containerized in DOT-approved 55-gallon metal drums or roll-off boxes. The drums/boxes will be temporarily stored at an approved location at the JCI facility. At least one composite soil sample will be collected from drums containing soil IDW. These samples will be characterized according to state requirements and subsequently managed according to state regulation based on the characterization results. Solutions-IES will make arrangements for disposal by a certified waste handler. Based upon previous IDW produced at the site, it is anticipated that the soil will be characterized as non-hazardous, but the water may be characterized as hazardous.

5.0 REFERENCES

Solutions-IES, 2013. Remedial Action Plan for Groundwater, Former Eaton Corporation Facility, 1100 East Preston Street, Selma, Johnston County, North Carolina, June 3.

FIGURES

PROJECT NUMBER 2013.0014.EATON
DRAFTER KTS
CHECKED BY JLO
PROJECT MANAGER JLO
DATE 9/4/2013
FILE Pre-Construction Report.dwg



Solutions-IES
Industrial & Environmental Services
1101 NOWELL ROAD
RALEIGH, NORTH CAROLINA 27607
TEL.: (919) 873-1060 FAX.: (919) 873-1074

NOTES:
1) BASEMAP OBTAINED FROM JIMMY BARBOUR SURVEYING, PA, APRIL 2008 .
2) WELL LOCATIONS ARE BASED ON SURVEY DATA PROVIDED BY KCI ASSOCIATES OF N.C. JUNE 2008 & JULY 2010.
3)PROPOSED INJECTION WELLS ARE IDENTIFIED BY A NUMBER AND WILL BE LABELED IW-1A/1B, IW-2A/2B, ETC.

FORMER EATON FACILITY
1100 EAST PRESTON STREET
SELMA, JOHNSTON COUNTY, NC

PROPOSED INJECTION LAYOUT

FIGURE: 1

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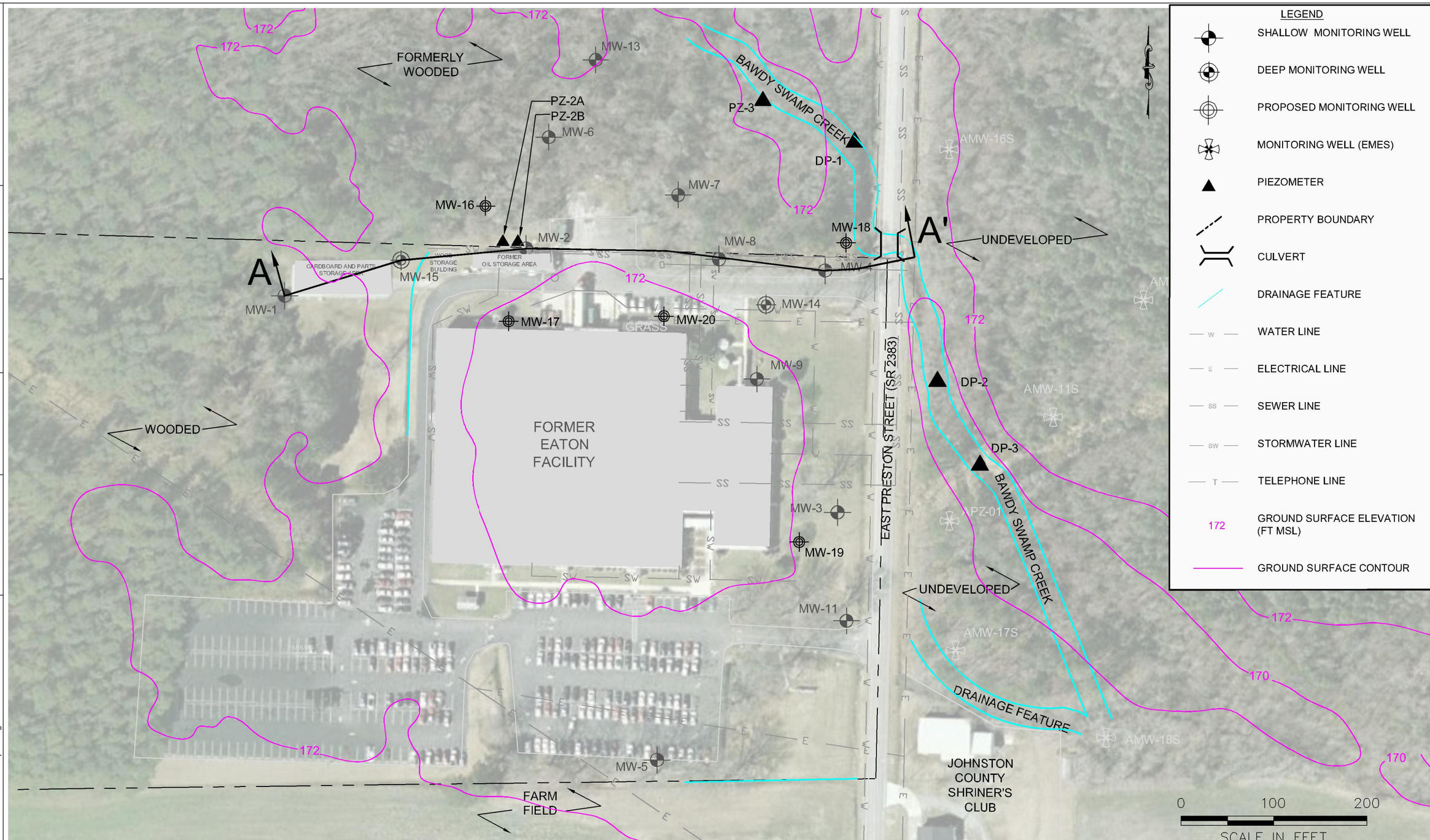
PROJECT NUMBER 2013.0014.EATON
DRAFTER KTS
CHECKED BY JLO
PROJECT MANAGER JLO
DATE 9/4/2013
FILE Pre-Construction Report.dwg



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NOTES:
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2) WELL LOCATIONS ARE BASED ON SURVEY DATA PROVIDED BY KCI ASSOCIATES OF N.C. JUNE 2008 & JULY 2010.
3) GROUND SURFACE CONTOUR LINES FROM JOHNSTON COUNTY GIS.

FORMER EATON FACILITY
1100 EAST PRESTON STREET
SELMA, JOHNSTON COUNTY, NC

PERFORMANCE MONITORING NETWORK

FIGURE: 2

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TABLES

TABLE 1
SUMMARY OF GROUNDWATER ELEVATION DATA
EATON CORPORATION FORMER FACILITY
1100 EAST PRESTON STREET, SELMA, NORTH CAROLINA

Monitoring Well or Piezometer ID	Top of PVC (ft msl)	Screened Interval (ft bgs)	Date	Depth-To-Water (ft)	Groundwater Elevation (ft msl)
Shallow Zone					
MW-1	172.00	15 - 20	6/18/2008	6.61	165.39
			7/16/2008	6.60	165.40
			4/8/2009	1.68	170.32
			4/22/2009	1.38	170.62
			7/28/2010	8.53	163.47
			6/27/2011	8.58	163.42
			4/27/2012	5.65	166.35
			10/30/2012	10.18	161.82
			1/31/2013	7.73	164.27
MW-2	171.21	25 - 30	6/18/2008	5.68	165.53
			7/16/2008	5.65	165.56
			4/8/2009	0.98	170.23
			4/22/2009	1.67	169.54
			7/28/2010	7.45	163.76
			6/27/2011	7.59	163.62
			4/27/2012	4.60	166.61
			10/30/2012	9.21	162.00
			1/31/2013	6.59	164.62
MW-3	171.13	15 - 20	6/18/2008	5.14	165.99
			7/16/2008	4.91	166.22
			4/8/2009	1.01	170.12
			4/22/2009	1.58	169.55
			7/28/2010	7.15	163.98
			6/27/2011	7.43	163.70
			4/27/2012	4.43	166.70
			10/30/2012	9.20	161.93
			1/31/2013	6.17	164.96
MW-4	171.56	15 - 20	6/18/2008	5.84	165.72
			7/16/2008	5.88	165.68
			4/8/2009	1.31	170.25
			4/22/2009	2.02	169.54
			7/28/2010	7.66	163.90
			6/27/2011	7.82	163.74
			4/27/2012	4.78	166.78
			10/30/2012	9.48	162.08
			1/31/2013	6.62	164.94
MW-5	170.42	15 - 20	6/18/2008	4.47	165.95
			7/16/2008	4.02	166.40
			4/8/2009	0.4	170.02
			4/22/2009	1.06	169.36
			7/28/2010	6.57	163.85
			6/27/2011	6.93	163.49
			4/27/2012	4.52	165.90
			10/30/2012	8.75	161.67
			1/31/2013	4.86	165.56

TABLE 1
SUMMARY OF GROUNDWATER ELEVATION DATA
EATON CORPORATION FORMER FACILITY
1100 EAST PRESTON STREET, SELMA, NORTH CAROLINA

Monitoring Well or Piezometer ID	Top of PVC (ft msl)	Screened Interval (ft bgs)	Date	Depth-To-Water (ft)	Groundwater Elevation (ft msl)
MW-6	173.88	20-30	7/28/2010	10.13	163.75
			6/27/2011	10.26	163.62
			4/27/2012	7.34	166.54
			10/30/2012	11.85	162.03
			1/31/2013	9.25	164.63
MW-7	174.68	20-30	7/28/2010	10.78	163.90
			6/27/2011	10.94	163.74
			4/27/2012	8.00	166.68
			10/30/2012	12.53	162.15
			1/31/2013	9.86	164.82
MW-8	171.08	20-30	7/28/2010	7.23	163.85
			6/27/2011	7.36	163.72
			4/27/2012	4.34	166.74
			10/30/2012	8.99	162.09
			1/31/2013	6.27	164.81
MW-9	172.66	28-38	7/28/2010	9.05	163.61
			6/27/2011	9.03	163.63
			4/27/2012	NL	NL
			10/30/2012	10.72	161.94
			1/31/2013	8.88	163.78
MW-11	170.25	25-35	7/28/2010	6.35	163.90
			6/27/2011	6.62	163.63
			4/27/2012	3.70	166.55
			10/30/2012	8.45	161.80
			1/31/2013	5.49	164.76
MW-13	173.94	21-31	6/27/2011	10.32	163.62
			4/27/2012	7.40	166.54
			1/31/2013	9.26	164.68
Deep Zone					
MW-14	171.45	47-57	6/27/2011	7.53	163.92
			4/27/2012	4.56	166.89
			10/30/2012	9.22	162.23
			1/31/2013	6.39	165.06
MW-15	171.49	46-56	6/27/2011	8.00	163.49
			4/27/2012	5.19	166.30
			10/30/2012	9.47	162.02
			1/31/2013	7.16	164.33
Piezometers					
DP-1	171.01	4-5	7/28/2010	DRY	<162.61
			6/27/2011	DRY	<162.61
			4/27/2012	2.95	168.06
			10/30/2012	2.95	168.06
			1/31/2013	4.53	166.48

TABLE 1
SUMMARY OF GROUNDWATER ELEVATION DATA
EATON CORPORATION FORMER FACILITY
1100 EAST PRESTON STREET, SELMA, NORTH CAROLINA

Monitoring Well or Piezometer ID	Top of PVC (ft msl)	Screened Interval (ft bgs)	Date	Depth-To-Water (ft)	Groundwater Elevation (ft msl)
DP-2	170.59	4-5	7/28/2010	DRY	<162.34
			6/27/2011	DRY	<162.34
			4/27/2012	2.93	167.66
			10/30/2012	2.82	167.77
			1/31/2013	2.93	167.66
DP-3	170.51	4-5	7/28/2010	DRY	<162.21
			6/27/2011	DRY	<162.21
			4/27/2012	2.5	168.01
			10/30/2012	2.94	167.57
			1/31/2013	3.56	166.95
PZ-2A	172.84	13.5-14.5	4/22/2009	2.69	170.15
			6/27/2011	9.14	163.70
			10/30/2012	10.62	162.22
			1/31/2013	8.07	164.77
PZ-2B	172.81	5.5-6.5	4/22/2009	4.75	168.06
			6/27/2011	DRY	DRY
			10/30/2012	NA	NA
PZ-3	170.01	7.5-8.5	4/22/2009	0.64	169.37
			6/27/2011	1.00	169.01
			10/30/2012	NA	NA

NOTES:
ft msl = feet mean sea level (NAVD 1988)
ft bgs = feet below ground surface
NL = well not located
NA = not available
Piezometer elevations were measured from nearby monitoring wells and are approximate.
All wells were surveyed by KCI Associates.

TABLE 2
SUMMARY OF FIELD PARAMETERS
EATON CORPORATION FORMER FACILITY
1100 EAST PRESTON STREET, SELMA, NORTH CAROLINA

Soil Boring ID	Date Sampled	pH (SU)	Specific Conductance (µS/cm)	Temperature (°C)	Turbidity (NTU)	Oxidation-Reduction Potential (mV)	DO (mg/L)
MW-4	6/18/2008	3.89	1,201	19.4	168	NM	NM
	7/28/2010	3.54	2,881	19.7	19	214	0.7
	10/30/2012	3.45	3,420	18.6	2	413	2.7
	1/31/2013	3.59	4,297	16.7	5	401	0.6
MW-8	7/28/2010	5.63	160	20.7	20	121	0.3
	10/30/2012	3.93	416	17.7	14	305	2.2
	1/31/2013	4.03	1,418	15.6	12	352	0.6
MW-2	6/18/2008	5.56	177	23.4	46	NM	NM
	4/8/2009	6.42	139	16.5	NM	31	NM
	7/28/2010	5.98	94	29.2	7	61	NM
TMW-30-15	2/27/2013	5.4	1,128	14.7	476	-494	0.3
TMW-30-20	2/27/2013	5.9/6.4[1]	87	16.9	384	-501	0.9
TMW-30-25	2/27/2013	6.0	102	17.1	375	-521	0.3
TMW-30-28	2/27/2013	5.9	88	16.8	338	-494	0.8

NOTES:

SU = standard units
µS/cm = microSiemens per centimeter
°C = degrees Celsius
NTU = nephelometric turbidity units
mV = millivolts
DO = dissolved oxygen
mg/L = milligrams per liter

1. Laboratory pH value.

TABLE 3
SUMMARY OF ANALYTICAL LABORATORY DATA FOR VOCS IN WATER
EATON CORPORATION FORMER FACILITY
1100 EAST PRESTON STREET, SELMA, NORTH CAROLINA

Monitoring Well	Date	Primary COCs (µg/L)			Secondary COCs (µg/L)								CVOC Degradation Daughter Products (µg/L)	
		Tetrachloroethene	Trichloroethene	1,1-Dichloroethene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,2-Dichlorobenzene	1,2-Dichloroethane	Benzene	Carbon tetrachloride	Dibromochloromethane	cis-1,2-Dichloroethene	Vinyl Chloride
NC 2L Standard (µg/L)		0.7	3	350	200	NE	6	20	0.4	1	0.3	0.4	70	0.03
MW-4	6/18/2008	**2,320**	**1,030**	**553**	**47.6**	**1.1**	**6.3**	<0.30	<0.12	<0.25	<0.25	<0.21	**1.0**	<0.62
	7/28/2010	**18,200**	**3,460**	**3,230**	**6,560**	<1,250	<1,250	<1,250	<1,250	<1,250	<1,250	<1,250	<1,250	<1,250
	10/30/2012	**25,800**	**3,380**	**3,140**	**8,940**	<5.40	**7.0 J**	**15.0 J**	<3.48	<3.90	<4.23	<4.33	<4.48	<9.65
	10/31/2012	**AQUABUPH DRUM ADDED TO TRENCH**												
	1/31/2013	**37,000**	**4,200**	**4,500**	**14,000**	<83	<48	<38	<70	<36	<59	<150	<38	<78
MW-8	7/28/2010	**974**	<50.0	**132**	**102**	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
	10/30/2012	**874**	**58.2**	**128**	**45.9**	<0.216	**5.15**	**0.430 J**	<0.139	<0.156	<0.169	<0.173	**1.72**	<0.386
	10/31/2012	**AQUABUPH DRUM ADDED TO TRENCH**												
	1/31/2013	**2,100**	**150**	**400**	**200**	<3.3	<1.9	<1.5	<2.8	<1.4	<2.4	<6.0	<1.5	<3.1
West Trench Water-SW	10/30/2012	**15.9**	**3.21**	**0.480 J**	**2.20**	<0.216	**0.510 J**	<0.214	<0.139	<0.156	<0.169	<0.173	**3.78**	<0.386
VERTICAL INTERVAL TESTING														
TMW-30-15	2/27/2013	**4,900**	**480**	**670**	**72**	**0.84**	**7.6**	**2.1**	**0.44 J**	<0.072	<0.12	<0.30	**16**	**2.4**
TMW-30-20	2/27/2013	**10,000**	**700**	**1,000**	**1.8**	**0.96**	**4.0**	**0.86**	**0.49 J**	<0.072	**18**	<0.30	**0.97**	<0.16
TMW-30-25	2/27/2013	**11,000**	**1,000**	**1,800**	**2.7**	**1.7**	**3.5**	**2.3**	**0.80**	<0.072	**18**	<0.30	**0.55**	<0.16
TMW-30-28	2/27/2013	**10,000**	**1,100**	**2,000**	**2.6**	**1.6**	**3.4**	**2.0**	**0.80**	<0.072	**21**	<0.30	**0.45 J**	<0.16
TCLP SAMPLES														
MSWLF Leachate Value		<700	<500	<700	NA	20	NA	2,400	<500	<500	<500	41	7,000	<200
East Trench Bedding-SS (TCLP)	10/31/2012	**8.80 J**	<2.27	<2.88	NR	NR	NR	NR	<2.96	<1.56	<2.70	NR	NR	<1.89
East Trench Bedding-SW (TCLP)	10/31/2012	**12.4**	<2.27	<2.88	NR	NR	NR	NR	<2.96	<1.56	<2.70	NR	NR	<1.89
West Trench Bedding-SS (TCLP)	10/31/2012	**38.2**	<2.27	<2.88	NR	NR	NR	NR	<2.96	<1.56	<2.70	NR	NR	<1.89
West Trench Bedding-SW (TCLP)	10/31/2012	**9.80 J**	<2.27	<2.88	NR	NR	NR	NR	<2.96	<1.56	<2.70	NR	NR	<1.89
IDW-Box 1 (TCLP)	10/31/2012	<2.64	<2.27	<2.88	NR	NR	NR	NR	<2.96	<1.56	<2.70	NR	NR	<1.89
IDW-Box 1 (TCLP)	10/31/2012	<2.64	<2.27	<2.88	NR	NR	NR	NR	<2.96	<1.56	<2.70	NR	NR	<1.89
IDW-Box 1 (TCLP)	10/31/2012	<2.64	<2.27	<2.88	NR	NR	NR	NR	<2.96	<1.56	<2.70	NR	NR	<1.89

NOTES:
COCs = contaminants of concern
µg/L = micrograms per liter
CVOC = chlorinated volatile organic compound
NE = not established
Bolded values indicate concentration greater than the laboratory detection limit.
Shaded cells are concentrations in excess of the NC 2L Standard or a detection if no NC 2L Standard is estbalished.
J = Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
NA = not available
NR = not reported

TABLE 4
SUMMARY OF ANALYTICAL VOC SOIL DATA
EATON CORPORATION FORMER FACILITY
1100 EAST PRESTON STREET, SELMA, NORTH CAROLINA

Sample ID	Sample Depth (ft bgs)	Date	PID (ppm)	Soil Moisture (% Solid)	Primary COCs (µg/kg)			Secondary COCs (µg/kg)			
					Tetrachloroethene	Trichloroethene	1,1-Dichloroethene	1,1,1-Trichloroethane	1,1-Dichloroethane	Vinyl chloride	Xylene (Total)
Prelminary Residential Health-Based PSRG					17,000	880	48,000	640,000	3,300	60	130,000
Protection of Groundwater					81[1]	18	45	1,200	30	0.19	5,800
SB40-0-1	0-1	11/1/2012	0.0	87.0	**2.78**	<0.516	<2.39	<0.339	<0.472	<0.636	<1.42
SB40-1-2	1-2	11/1/2012	0.0	83.7	**23.4**	<0.692	<0.953	<0.620	<0.442	<0.781	<1.45
SB40-2-3	2-3	11/1/2012	0.0	83.5	**45.5**	**0.739 J**	<0.921	<0.599	<0.427	<0.754	<1.41
SB40-3-4	3-4	11/1/2012	0.1	85.2	**27.8**	**9.82**	**4.20 J**	<0.650	**0.629 J**	<0.819	<1.53
SB40-4-5	4-5	11/1/2012	1.0	86.4	**339**	**93.3**	**62.2**	<0.651	**7.51**	**2.77 J**	<1.53
SB40-5-6	5-6	11/1/2012	4.2	82.9	**1,100**	**208**	**124**	<5.40	<7.25	<5.44	<7.99
SB40-6-7	6-7	11/1/2012	5.5	83.5	**1,650**	**247**	**148**	<10.9	<14.6	<11.0	<16.1
SB40-7-8	7-8	11/1/2012	5.4	78.4	**2,160**	**252**	**175**	<11.5	<15.5	<11.6	<17.1
SB41-0-1	0-1	11/1/2012	0.0	86.6	**26.5**	<0.539	<2.50	**0.678 J**	<0.493	<0.664	<1.48
SB41-1-2	1-2	11/1/2012	0.0	83.7	**367**	<5.27	<8.93	<5.18	<6.95	<5.23	<7.67
SB41-2-3	2-3	11/1/2012	0.0	84.5	**235**	<5.23	<8.87	<5.14	<6.90	<5.19	<7.61
SB41-3-4	3-4	11/1/2012	0.0	82.9	**120**	**6.89**	**3.09 J**	**3.53 J**	**1.30 J**	<0.908	<1.69
SB41-4-5	4-5	11/1/2012	0.0	81.9	**393**	**48.6**	**33.9 J**	<5.64	<7.56	<5.69	<8.34
SB41-5-6	5-6	11/1/2012	1.6	84.1	**1,410**	**98.0**	**101**	<5.43	<7.29	<5.48	<8.04
SB41-6-7	6-7	11/1/2012	3.6	80.9	**2,600**	**134**	**204**	<10.8	<14.5	<10.9	<16.0
SB41-7-8	7-8	11/1/2012	21.6	85.6	**3,230**	**107**	**210**	<11.2	<15.0	<11.3	<16.5
SB42-0-1	0-1	11/1/2012	0.0	87.4	**8.62**	<0.509	<2.36	<0.334	<0.465	<0.627	<1.40
SB42-1-2	1-2	11/1/2012	0.0	85.6	**25.4**	<0.800	<1.10	<0.716	**0.998 J**	<0.903	<1.68
SB42-2-3	2-3	11/1/2012	0.1	80.7	**103**	**2.87 J**	**2.52 J**	**1.24 J**	**10.8**	<0.873	<1.63
SB42-3-4	3-4	11/1/2012	1.0	81.0	**81.7**	**6.30**	<1.16	<0.756	**137**	**53.9**	**285**
SB42-4-5	4-5	11/1/2012	617	78.7	**3,010,000**	**149,000**	<19,700	<11,400	<15,300	<11,500	**20,500 J**
SB42-5-6	5-6	11/1/2012	1,677	80.9	**226,000**	**22,700**	**3,250 J**	**11,800**	<1,530	<1,150	<1,690
SB42-6-7	6-7	11/1/2012	249.3	82.7	**39,100**	**3,970**	**4,460**	**6,850**	**895 J**	<222	<326
SB42-7-8	7-8	11/1/2012	108.4	83.1	**34,500**	**2,080**	**4,150**	**5,850**	<222	<167	<245
SB43-0-1	0-1	11/1/2012	0.0	95.1	**434**	**11.3 J**	<11.4	<6.63	<8.89	<6.68	<9.80
SB43-1-2	1-2	11/1/2012	0.0	92.4	**696**	**29.4 J**	<10.4	<6.03	<8.09	<6.08	<8.92
SB43-2-3	2-3	11/1/2012	0.0	91.3	**1,460**	**55.9 J**	<20.1	<11.7	<15.6	<11.7	<17.2
SB43-3-4	3-4	11/1/2012	0.0	93.3	**6,820**	**266**	<44.7	<26.0	<34.8	<26.2	<38.4
SB43-4-5	4-5	11/1/2012	23.2	82.6	**14,900**	**706**	<147	<85.1	<114	<85.8	<126
SB43-5-6	5-6	11/1/2012	35.8	80.9	**22,700**	**758 J**	<206	<119	<160	<120	<177
SB43-6-7	6-7	11/1/2012	85.3	88.8	**62,300**	<415	<704	<409	<548	<412	<605
SB43-7-8	7-8	11/1/2012	41.5	86.1	**8,230**	**117 J**	<82.9	<48.1	<64.5	<48.5	<71.1
SB44-0-1	0-1	11/1/2012	0.0	92.9	**684**	<6.07	<10.3	<5.98	<8.02	<6.02	<8.84
SB44-1-2	1-2	11/1/2012	0.0	93.0	**2,880**	**78.1 J**	<21.2	**47.1 J**	<16.5	<12.4	<18.2
SB44-2-3	2-3	11/1/2012	0.0	93.1	**13,700**	**410 J**	<88.7	<51.5	<69.1	<51.9	<76.2
SB44-3-4	3-4	11/1/2012	2.6	91.2	**13,800**	**560**	<95.0	**480**	<74.0	<55.6	<81.6
SB44-4-5	4-5	11/1/2012	77.6	79.9	**79,700**	**796 J**	<804	<466	<625	<470	<690
SB44-5-6	5-6	11/1/2012	320.4	75.9	**112,000**	**1,770 J**	<1,170	<679	<911	<684	<1,000
SB44-6-7	6-7	11/1/2012	403.5	78.4	**742,000**	**5500 J**	<4,020	<2,330	<3,130	<2,350	**13,100 J**
SB44-7-8	7-8	11/1/2012	78.1	77.8	**48,500**	**1,250 J**	**2,260**	**5,760**	<356	<267	**820 J**

TABLE 4
SUMMARY OF ANALYTICAL VOC SOIL DATA
EATON CORPORATION FORMER FACILITY
1100 EAST PRESTON STREET, SELMA, NORTH CAROLINA

Sample ID	Sample Depth (ft bgs)	Date	PID (ppm)	Soil Moisture (% Solid)	Primary COCs (µg/kg)			Secondary COCs (µg/kg)			
					Tetrachloroethene	Trichloroethene	1,1-Dichloroethene	1,1,1-Trichloroethane	1,1-Dichloroethane	Vinyl chloride	Xylene (Total)
Prelminary Residential Health-Based PSRG					17,000	880	48,000	640,000	3,300	60	130,000
Protection of Groundwater					81[1]	18	45	1,200	30	0.19	5,800
SB45-0-1	0-1	11/1/2012	0.0	89.1	**19.9**	<0.646	<0.890	**1.28 J**	<0.413	<0.729	<1.36
SB45-1-2	1-2	11/1/2012	0.0	91.6	**76.9**	<5.62	<9.54	<5.53	<7.42	<5.58	<8.19
SB45-2-3	2-3	11/1/2012	0.0	91.0	**44.7**	<4.82	<8.17	<4.74	<6.36	<4.78	<7.01
SB45-3-4	3-4	11/1/2012	0.0	84.9	**266**	<6.12	<10.4	**29.4 J**	<8.08	<6.07	<8.91
SB45-4-5	4-5	11/1/2012	0.5	84.9	**121**	**2.42 J**	<3.00	**6.48**	<0.592	<0.798	<1.78
SB45-5-6	5-6	11/1/2012	1.4	84.2	**140**	<6.09	<10.3	<5.99	<8.04	<6.04	<8.87
SB45-6-7	6-7	11/1/2012	2.5	87.2	**1,120**	**33.6 J**	**37.6 J**	**107**	<7.39	<5.56	<8.16
SB45-7-8	7-8	11/1/2012	1.5	78.1	**1,160**	**39.0 J**	**85.1**	**173**	<7.39	<5.55	<8.15
East Trench Bedding-SS	8	10/31/2012	1.0	76.5	**3,430**	**90.9 J**	**144**	**239**	<15.8	<11.9	<17.4
East Trench Bedding-SW	5.5	10/31/2012	0.5	80.6	**3,580**	**104**	**44.1 J**	**112**	<14.8	<11.2	<16.4
West Trench Bedding-SS	6	10/31/2012	11.7	73.8	**9,730**	**255**	<48.2	**130 J**	<37.5	<28.2	<41.4
West Trench Bedding-SW	4.5	10/31/2012	0.0	82.0	**2,530**	**101**	<19.2	**54.3 J**	<14.9	<11.2	<16.5
IDW-Box 1	C	10/31/2012	NA	77.9	**29.2**	**1.71 J**	<3.28	**4.05 J**	<0.647	<0.873	<1.95
IDW-Box 2	C	10/31/2012	NA	84.4	**1,050**	**38.7 J**	**14.8 J**	**44.4 J**	<7.89	<5.93	<8.70
IDW-Box 3	C	10/31/2012	NA	93.1	**9.41**	<0.899	<1.24	<0.805	<0.574	<1.01	<1.89
SB49-10-12	10-12	2/27/2013	NA	79.0	**1,000**	**30**	**140**	**99**	**2.7 J**	<0.48	<0.70
SB50-10-12	10-12	2/27/2013	NA	76.3	**3,900**	**69**	**570**	**540**	**16**	**3.5 J**	**24**

NOTES:
ft bgs = feet below ground surface
PID = photoionization detector
ppm = parts per million
COCs = contaminants of concern
µg/kg = microgram per kilogram
PSRG = preliminary soil remediation goal
1. Value calcuated from Leachability Study conducted April 2012.
Bolded values indicate concentration greater than the laboratory detection limit.
J = Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
Shaded cells are concentrations in excess of the minimum of the Preliminary Residential Health-Based PSRG and/or Protection of Groundwater value.
SS = Sanitary Sewer
SW = Storm Water
C = composite sample collected from multiple depths

TABLE 5
SUMMARY OF SB-47 AND SB-48 SOIL DATA
EATON CORPORATION FORMER FACILITY
1100 EAST PRESTON STREET, SELMA, NORTH CAROLINA

Sample ID	Sample Depth (ft bgs)	Date	PID (ppm)	pH (SU)	Total Organic Carbon (mg/kg)	Grain Size Distribution (%)				Total Oxidant Demand (g/kg)	Amount of Base to Reach pH 7 (meq/kg)
						Gravel	Sand	Silt	Clay		
SB47-CS-4-6	4-6	2/27/2013	9.6	4.0	< 97.0	0.0	12.3	49.8	38.0	4.7	1.2
SB47-CS-6-8	6-8	2/27/2013	55.7	3.8	<97.0	2.0	69.7	10.1	20.2	0.3	31
SB47-CS-8-10	8-10	2/27/2013	142.6	3.6	<97.0	0.0	21.4	46.5	32.1	0.3	27
SB47-SG-10-12	10-12	2/27/2013	32.9	4.0	<97.0	0.0	42.7	33.4	23.8	NA	26
SB47-SG-16-18	16-18	2/27/2013	8.5	4.4	<97.0	0.0	75.2	5.7	19.1	NA	1
SB47-SG-18-20	18-20	2/27/2013	2.2	4.6	<97.0	0.0	86.8	2.0	11.2	NA	0.1
SB48-CS-6-8	6-8	2/28/2013	2.5	3.4	<97.0	0.0	4.3	45.1	50.6	4.6	117
SB48-CS-8-10	8-10	2/28/2013	5.7	3.9	15,400	0.0	3.5	50.9	45.6	3.2	119
SB48-CS-10-12	10-12	2/28/2013	11.6	3.8	<97.0	0.0	16.5	45.5	38.1	0.7	35
SB48-SG-16-18	16-18	2/28/2013	4.9	4.3	<97.0	5.3	78.2	4.2	12.3	NA	4
SB48-SG-18-20	18-20	2/28/2013	3.5	4.7	<97.0	3.7	82.4	1	13.0	NA	0.3
SB48-SG-20-22	20-22	2/28/2013	2.0	4.8	<97.0	16.6	76.1	1	8.3	NA	0.3

NOTES:
ft bgs = feet below ground surface
PID = photoionization detector
ppm = parts per million
SU = standard units
mg/kg = milligram per kilogram
g/kg = gram per kilogram
meq/kg = milliequivalents of base per kilogram
NA = not analyzed

TABLE 6
SUMMARY OF pH AND MICROBIAL DATA IN SB-49 AND SB-50
EATON CORPORATION FORMER FACILITY
1100 EAST PRESTON STREET, SELMA, NORTH CAROLINA

Sample ID	Sample Depth (ft bgs)	Date	pH (SU)	CENSUS (cells/g)			
				DHC	TCE Reductase	VC Reductase	BAV1 VC Reductase
SB49-10-12	10-12	2/27/2013	3.8	<1,000	<1,000	<1,000	<1,000
SB50-10-12	10-12	2/27/2013	3.5	<1,000	<1,000	<1,000	<1,000

NOTES:
ft bgs = feet below ground surface
cells/g = cells per gram
SU = standard units
DHC = *Dehalococcoides*
Functional Genes = tceA Reductase, VC Reductase, BAV1 VC Reductase

TABLE 7
SUMMARY OF TMW-30-20 DATA
EATON CORPORATION FORMER FACILITY
1100 EAST PRESTON STREET, SELMA, NORTH CAROLINA

Monitoring Well	Date	pH (SU)	Buffering (mg/L)		CENSUS (cells/mL)			
			Acidity	Alkalinity	DHC	TCE Reductase	VC Reductase	BAV1 VC Reductase
TMW-30-20	2/27/2013	6.4	33	30	<10	<10	<10	<10

NOTES:
SU = standard units
mg/L = milligrams per liter
cells/mL = cells per milliliter
DHC = *Dehalococcoides*
Functional Genes = tceA Reductase, VC Reductase, BAV1 VC Reductase

TABLE 8
SUMMARY OF SUBSTRATE INJECTION
FORMER EATON CORPORATION FACILITY
1100 EAST PRESTON STREET, SELMA, NORTH CAROLINA

Injectant	Zone A (10 - 20 ft bgs) IW-1A to IW-60A	Zone B (23 - 30 ft bgs) IW–1B to IW-60B
CoBupH-Mg	• Dilute 1.1 gal CoBupH-Mg in 1.1 gal water (1:1 dilution) • Inject 2.2 gal of dilute CoBupH-Mg into each of 60 wells • Chase with 67 gal water in each well • Injection rate: 1 gpm • Pressure < 10 psi • Total volume = 4,155 gal	• Dilute 0.07 gal CoBupH-Mg in 0.07 gal water (1:1 dilution) • Inject 0.15 gal of dilute CoBupH-Mg into each of 60 wells • Chase with 33 gal water in each well • Injection rate: 1 gpm • Pressure < 15 psi • Total volume = 1,989 gal
EOS XR	• Dilute 141 gal EOS XR in 707 gal water (1:5 dilution) • Inject 848 gal of dilute EOS XR into each of the 60 wells • Chase with 2,255 gal water in each well • Injection rate: 1 gpm • Pressure < 10 psi • Total volume = 186,201 gallons	• Dilute 71 gal EOS XR in 353 gal water (1:5 dilution) • Inject 424 gal of dilute EOS XR into each of the 60 wells • Chase with 2,715 gal water in each well • Injection rate: 1 gpm; • Pressure < 15 psi • Total volume = 188,367 gallons
BAC-9	• Inject approximately 1 liter per well • Chase with 53 gal water per well	• Inject approximately 1 liter per well • Chase with 53 gal water per well

TABLE 9
PERFORMANCE MONITORING
FORMER EATON CORPORATION FACILITY
1100 EAST PRESTON STREET, SELMA, NORTH CAROLINA

Group A Monitoring Wells (16)	
Shallow	MW-1, MW-2, MW-3, MW-4, MW-5, MW-8, MW-11, MW-9, MW-13, MW-16, MW-17, MW-18, MW-19, and MW-20
Deep	MW-14 and MW-15
Group B Monitoring Wells (5)	
Shallow	MW-2, MW-4, MW-16, MW-18, and MW-19
Group C Monitoring Wells (9)	
Shallow	MW-2, MW-4, MW-7, MW-8, MW-9, MW-16, MW-18, MW-19, and MW-20

Analysis	Baseline	3-Month	6-Month	9-Month	12-Month
Field Parameters					
Water Levels	Group A (16 wells)	Group C (9 wells)	Group C (9 wells)	Group C (9 wells)	Group A (16 wells)
DO, ORP, pH, Spec. Cond., Temperature					
Laboratory Parameters					
VOCs	Group A (16 wells)	Group C (9 wells)	Group C (9 wells)	Group C (9 wells)	Group A (16 wells)
Nitrate-N; sulfate					
Fe+3/Fe+2; Mg (total)					
TOC					
Alkalinity					
MEE					
VFA	Group B (5 wells)	Group B (5 wells)	Group B (5 wells)	Group B (5 wells)	Group B (5 wells)
DHC, TCE-reductase, VC-reductase		0		0	

Note:
MW-16, MW-17, MW-18, MW-19, and MW-20 are proposed monitoring wells.

APPENDIX A

APPLICATION FOR PERMIT TO CONSTRUCT AND/OR USE A WELL(S) FOR INJECTION

Solutions-IES
Industrial & Environmental Services

1101 Nowell Road ■ Raleigh, NC 27607
(919) 873-1060 ■ Fax (919) 873-1074
www.solutions-ies.com

July 17, 2013

Mr. Thomas Slusser
NCDENR Division of Water Quality
1636 Mail Service Center
Raleigh, NC 27699-1636

Re: UIC Permit Application
Former Eaton Selma Facility (REC Program ID NONCD 0002853)
1100 East Preston Street
Selma, North Carolina, 27576
Solutions-IES Project No. 2013.0014.EATN

Dear Mr. Slusser:

Solutions-IES, Inc. (Solutions-IES), under contract with Eaton Corporation (Eaton), is submitting this UIC permit application to implement the selected remedial action for groundwater at the former Eaton facility in Selma, NC. The proposed injection wells are located primarily on Johnston County Industries, Inc. (JCI) property, also referred to as the site. There are several injection wells that are located on the property to the north of JCI, owned by NSEW Corporation (NSEW). We have added the NSEW property information and signature of the property owner to this cover letter.

The site is regulated under the NCDENR REC Program. As such, a deadline of February 9, 2014, has been set in order to implement the groundwater remedial action. In order to meet that deadline and accommodate schedules, we plan to begin injection well installation on September 16, 2013. Therefore, your expedited review of this permit application would be greatly appreciated.

If you have any questions or need additional information, please feel free to contact me at (919) 873-1060 or jovermyer@solutions-ies.com.

Yours truly,

Solutions-IES

Jody Overmyer, P.E.
Project Manager

M. Tony Lieberman, RSM
Senior Consultant

Attachment: UIC Permit Application

Electronic cc: Ms. Karen Souza, Allegheny Environmental Services, Inc., ksouza_aesi@verizon.net

III. PROPERTY OWNER (if different than well owner)

1. Name: NSEW Corporation / Albert Daniel Jr.
2. Physical address: 404 East Preston Street
   City: Selma State: NC Zip: 27576
3. Mailing address: PO Box 398
   City: Selma State: NC Zip: 27576
4. Telephone number: 919-965-2303 Email: albert@baileyfeedmill.com

X. CONSENT OF PROPERTY OWNER (if the property is not owned by the permit applicant)

"Owner" means any person who holds the fee or other property rights in the well being constructed. A well is real property and its construction on land shall be deemed to vest ownership in the land owner, in the absence of contrary agreement in writing.

"As owner of the property on which the injection well(s) are to be constructed and operated, I hereby consent to allow the applicant to construct each injection well as outlined in this application and agree that it shall be the responsibility of the applicant to ensure that the injection well(s) conform to the Well Construction Standards (Title 15A NCAC 02C .0200)."

Printed Name and Title: ALBERT DANIEL PRESIDENT

Signature: Date: 7-10-13

North Carolina Department of Environment and Natural Resources

APPLICATION FOR PERMIT TO CONSTRUCT AND/OR USE A WELL(S) FOR INJECTION
In Situ Groundwater Remediation | Tracer Injection

Do **not** use this form for the following:

- in situ remediation, tracer, or aquifer test injection wells permitted by rule (ref. 15A NCAC 02C .0217)
- remediation systems that reinject treated contaminated groundwater (ref. 15A NCAC 02T .1600)

Application Number (*to be completed by DWQ*): _____

I. APPLICATION INFORMATION

1. Project is: [X] New [ ] Modification [ ] Renewal *without* modification [ ] Renewal *with* modification
2. If this application is being submitted for renewal or modification to an existing permit, provide: existing permit number _____ and the issuance date _____
   For renewal without modifications, fill out sections I & II only, sign the certification on the last page of this form, and obtain the property owner's signature to indicate consent (if the applicant is not the owner).
   For all renewals, submit a status report including monitoring results of all injection activities to date.

II. WELL OWNER (generally the responsible party)

1. Name: Eaton Corporation / Jeffrey P. Allen
2. Signing Official's Name*: KAREN E. SOUZA Title: AGENT FOR EATON
   * Signing Official must be in accordance with instructions in Part IX on page 5.
3. Mailing address of applicant: Mail Code 4S, 1000 Eaton Boulevard
   City: Cleveland State: Ohio Zip: 44122
4. Telephone number: 440-523-4777 Email: JeffPAllen@Eaton.com
5. Status (choose one): ____Individual __X__Business/Org. ____Federal ____State ____County ____Municipality

   Authorization for signing official provided in **Attachment 1**. Signing Official's Contact Information:
   Karen Souza
   Allegheny Environmental Services, Inc.
   28 Oak Knoll Drive
   Pittsburgh, PA 15238
   Office (412) 767-4636
   Mobile (412) 605-8121
   ksouza_aesi@verizon.net

III. PROPERTY OWNER (if different than well owner)

1. Name: Johnston County Industries, Inc. / Bill Sharek
2. Physical address: 1100 East Preston Street
   City: Selma State: NC Zip: 27576
3. Mailing address: 1100 East Preston Street
   City: Selma State: NC Zip: 27576
4. Telephone number: 919-743-8712 Email: bill.sharek@jcindustries.com

APPLICATION FOR PERMIT TO CONSTRUCT AND/OR USE A WELL(S) FOR INJECTION
***In Situ* Groundwater Remediation | Tracer Injection**

IIII. PROJECT CONTACT – Person who can answer technical questions about the proposed injection project.

1. Name: Jody Overmyer Title: Project Manager
2. Company: Solutions-IES, Inc.
3. Address: 1101 Nowell Road
4. City: Raleigh State: NC Zip: 27607
5. Telephone number: 919-873-1060 Ext 163 Email: jovermyer@solutions-ies.com

V. FACILITY INFORMATION

1. Facility name: Johnston County Industries, Inc. (Former Eaton Corporation facility)
2. Mailing address: 1100 East Preston Street
   City: Selma County: Johnston State: NC Zip: 27576
3. Geographic Coordinates: Latitude: N35º 31' 33" Longitude: W 78º 17' 02"
   Reference Datum: WGS84 Accuracy: 1 meter
   Method of Collection: Google Earth
4. Brief description of business: Community rehabilitation center that evaluates, trains, and returns individuals with vocational barriers to employment.

VI. INCIDENT DESCRIPTION

1. Eaton purchased the property from Cutler Hammer Corporation in 1976. The facility was used to manufacture and assemble winding resistors, small parts and switches. Various industrial processes were employed at the plant, including injection molding (thermoset and thermoplastic), metal stamping, and parts cleaning and washing. The facility also stored and used a variety of oils, hydraulic fluids, and solvents in their processes. Details of past storage practices are unknown. In early 2008, Eaton sold the property to Johnston County Industries, Inc. During an Environmental Site Assessment (ESA) as part of the property transfer, several hydrocarbon and chlorinated constituents (predominantly tetrachloroethene [PCE]) in excess of the NC 2L Standards were reported in groundwater. The site entered the NCDENR REC Program in February 2009.

2. List all contaminants present in soils or groundwater at the site (*contaminants may be listed in groups, e.g., gasoline, diesel, jet fuel, fuel oil, chlorinated ethenes, chlorinated ethanes, metals, pesticides/herbicides, etc*):
   Primarily chlorinated ethenes in soil and groundwater with some hydrocarbons
3. Has LNAPL or DNAPL ever been observed at the site (even if outside the injection zone)?
   [ ] Yes If yes, list maximum measured separate phase thickness: _____ **feet**
   [X] No. If no, list maximum concentration of total VOCs observed at site: Groundwater: PCE (25,800 µg/L), TCE (3,380 µg/L), 1,1-DCE (3,230 µg/L); Soil: PCE (3,010 mg/kg), TCE (149 mg/kg).
4. Agency managing the contamination incident:
   [ ] UST Section [X] Superfund Section (including REC Program and DSCA sites)

[ ] DWQ Aquifer Protection Section [ ] Solid Waste Section
[ ] Hazardous Waste Section [ ] Other:_____

5. Incident manager's name: Kim Caulk, REC Program Mgr. Ph#: 919-707-8350
6. Incident number or other incident mgmt. agency tracking number: NONCD 0002853

VII. PERMITS

List all applicable permits or construction approvals issued for the **facility or incident**:

1. Hazardous Waste Management program permits under RCRA:_____
2. DWQ Non-Discharge or NPDES permits:_____
3. County or DEH subsurface wastewater disposal permits:_____
4. Other environmental permits required by state or federal law:

VIII. ATTACHMENTS – provide the following information in separate attachments. The attachments should be clearly identified and presented in the order below to expedite review of the permit application package. Attachments are included in the section following this application.

1. INJECTION ZONE – Specify the horizontal and vertical portion of the subsurface within which the proposed injection activity will take place and beyond which no violations of groundwater quality standards shall result from the injection as determined by an approved monitoring plan. The determination shall be based on the hydraulic properties of the specified zone. Provide any supporting documentation in a separate attachment.

2. HYDROGEOLOGIC EVALUATION – Provide a hydrogeologic evaluation of the injection zone that includes all of the following:

(A) Regional and local geology and hydrology;
(B) Changes in lithology underlying the facility;
(C) Depth to bedrock;
(D) Depth to the mean seasonal high water table;
(E) Hydraulic conductivity, transmissivity, and storativity, of the injection zone based on tests of site-specific material, including a description of the test(s) used to determine these parameters;
(F) Rate and direction of groundwater flow as determined by predictive calculations or computer modeling; and
(G) Lithostratigraphic and hydrostratigraphic logs of any existing test and injection wells.

3. INJECTANT INFORMATION – List each injectant in the space below and provide the following information for each injectant. *NOTE: Approved injectants can be found online at http://portal.ncdenr.org/web/wq/aps/gwpro. All other substances must be reviewed by the Division of Public Health, Department of Health and Human Services. Contact the UIC Program for more information (Ph# 919-807-6496).*

_____

_____

(A) MSDS, concentration at the point of injection, and percentage if present in a mixture with other injectants;
(B) The source of fluids used to dilute, carry, or otherwise distribute the injectant throughout the injection zone. If any well within the area of review of the injection facility is to be used as the fluid source, then the following information shall be submitted: location/ID number, depth of source, formation, rock/sediment type, and a chemical analysis of the water from the source well, including analyses for all contaminants suspected or historically recognized in soil or groundwater on the site;
(C) A description of the rationale for selecting the injectants and concentrations proposed for injection, including an explanation or calculations of how the proposed injectant volumes and concentrations were determined;
(D) A description of the reactions between the injectants and the contaminants present including specific breakdown products or intermediate compounds that may be formed by the injection;

(E) A summary of results if modeling or testing was performed to investigate the injectant's potential or susceptibility for biological, chemical, or physical change in the subsurface; and

(F) An evaluation concerning the development of byproducts of the injection process, including increases in the concentrations of naturally occurring substances. Such an evaluation shall include the identification of the specific byproducts of the injection process, projected concentrations of byproducts, and areas of migration as determined through modeling or other predictive calculations.

4. INJECTION PROCEDURE – Submit a table with a detailed description of the proposed injection procedure that includes the following:

(A) The proposed average and maximum daily rate and quantity of injectant;

(B) The average maximum injection pressure expressed in units of pounds per square inch (psi); and

(C) The total or estimated total volume to be injected.

5. FRACTURING PLAN (if applicable) – Submit a detailed description of the fracturing plan that includes the following:

(A) Material Safety Data Sheets of fracturing media including information on any proppants used;

(B) a map of fracturing well locations relative to the known extent of groundwater contamination plus all buildings, wells, septic systems, underground storage tanks, and underground utilities located within the Area of Review;

(C) a demonstration that buildings, wells, septic systems, underground storage tanks, and underground utilities will not be adversely affected by the fracturing process;

(D) injection rate and volume;

(E) orientation of bedding planes, joints, and fracture sets of the fracture zone;

(F) performance monitoring plan for determining the fracture well radius of influence; and

(G) if conducted, the results of geophysical testing or pilot test of fracture behavior conducted in an uncontaminated area of the site.

6. WELL CONSTRUCTION DETAILS – Submit the following information in tabular or schematic form as appropriate for each item:

(A) number and depth of injection wells;

(B) number and depth of borings if using multi-level or "nested" well systems;

(C) indication whether the injection wells are existing or proposed;

(D) depth and type of casing;

(E) depth and type of screen material;

(F) depth and type of grout;

(G) indication whether the injection wells are permanent or temporary "direct push" points; and

(H) plans and specifications of the surface and subsurface construction details.

7. MONITORING PLAN – Submit a monitoring plan that includes the following:

(A) target contaminants plus secondary or intermediate contaminants that may result from the injection;

(B) other parameters that may serve to indicate the progress of the intended reactions;

(C) a list of existing and proposed monitoring wells to be used; and

(D) a sampling schedule to monitor the proposed injection.

Monitoring wells shall be of sufficient quantity and location to detect any movement of injection fluids, injection process byproducts, or formation fluids outside the injection zone. The monitoring schedule shall be consistent with the proposed injection schedule, pace of the anticipated reactions, and rate of transport of the injectants and contaminants.

8. WELL DATA TABULATION – Provide a tabulation of data on all existing or abandoned wells within the area of review of the injection well(s) that penetrate the proposed injection zone, including monitoring wells and wells proposed for use as injection wells. Such data shall include a description of each well's type, depth, and record of construction or abandonment.

9. MAPS AND CROSS-SECTIONS – Provide scaled, site-specific site plans or maps depicting the location, orientation, and relationship of facility components including the following:

(A) area map based on the most recent USGS 7.5' topographic map of the area, at a scale of 1:24,000 and showing the location of the proposed injection site;

(B) topographic contour intervals showing all facility related structures, property boundaries, streams, springs, lakes, ponds, and other surface drainage features;

(C) all existing or abandoned wells within the area of review of the wells listed in the well data tabulation that penetrate the proposed injection zone;

(D) potentiometric surface map(s) that show the direction of groundwater movement, existing and proposed wells;

(E) contaminant plume map(s) with isoconcentration lines that show the horizontal extent of the contaminant plume in soil and groundwater, and existing and proposed wells;

(F) cross-section(s) to the known or projected depth of contamination that show the horizontal and vertical extent of the contaminant plume in soil and groundwater, major changes in lithology, and existing and proposed wells; and

(G) any existing sources of potential or known groundwater contamination, including waste storage, treatment, or disposal systems within the area of review of the injection well or well system.

IX. CERTIFICATION* (to be signed as required below or by that person's authorized agent*)

NCAC 15A 02C .0211(e) requires that all permit applications shall be signed as follows:

1. for a corporation: by a responsible corporate officer
2. for a partnership or sole proprietorship: by a general partner or the proprietor, respectively
3. for a municipality or a state, federal, or other public agency: by either a principal executive officer or ranking publicly elected official
4. for all others: by the well owner.

***If an authorized agent is signing on behalf of the applicant, then supply a letter signed by the applicant that names and authorizes their agent.**

"I hereby certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments therein, and that, based on my inquiry of those individuals immediately responsible for obtaining said information, I believe that the information is true, accurate, and complete. I am aware that there are penalties, including the possibility of fines and imprisonment, for submitting false information. I agree to construct, operate, maintain, repair, and if applicable, abandon the injection well(s) and all related appurtenances in accordance with the approved specifications and conditions of the Permit."

Printed Name and Title: KAREN E. SOUZA - AGENT FOR EATON

Signature: Karen E Souza Date: 7-5-13

X. CONSENT OF PROPERTY OWNER (if the property is not owned by the permit applicant)

"Owner" means any person who holds the fee or other property rights in the well being constructed. A well is real property and its construction on land shall be deemed to vest ownership in the land owner, in the absence of contrary agreement in writing.

"As owner of the property on which the injection well(s) are to be constructed and operated, I hereby consent to allow the applicant to construct each injection well as outlined in this application and agree that it shall be the responsibility of the applicant to ensure that the injection well(s) conform to the Well Construction Standards (Title 15A NCAC 02C .0200)."

Printed Name and Title: C. W. SHAREK, JR. PRESIDENT

Signature: Date: 7-10-2013

APPLICATION FOR PERMIT TO CONSTRUCT AND/OR USE A WELL(S) FOR INJECTION
***In Situ* Groundwater Remediation | Tracer Injection**

Submit **TWO** copies of the completed application package, including all attachments, to:

DWQ - Aquifer Protection Section
1636 Mail Service Center
Raleigh, NC 27699-1636
Telephone (919) 807-6464

APPLICATION ATTACHMENTS

1. <u>INJECTION ZONE</u> – Specify the horizontal and vertical portion of the subsurface within which the proposed injection activity will take place and beyond which no violations of groundwater quality standards shall result from the injection as determined by an approved monitoring plan. The determination shall be based on the hydraulic properties of the specified zone. Provide any supporting documentation in a separate attachment.

The primary intent of the design layout is to treat the areas of elevated concentrations of contaminants that have been depicted as areas greater than 1,000 ppb of the primary contaminant of concern (COC) (tetrachloroethene [PCE]). **Figure 5** offers horizontal (plan) and vertical (cross-sectional) interpretations of the area of concern in groundwater. **Figure 7** shows a closer view of the horizontal orientation and location of the injection wells clustered primarily along the storm sewer system running east-west along the northern portion of the property, then following south along the eastern portion of the property. The injection well pairs are oriented in a grid pattern and are spaced approximately 30 ft on center. The volume of injectate and chase water is designed to create a 15 ft ROI around each well. The two-dimensional component of the injection zone is approximately 34,440 square feet.

Vertical injection intervals will be from 10 to 20 ft bgs and 20 to 30 ft bgs in the sand and gravel layer at the site. Thus, the vertical component of the injection zone will extend from approximately 10 to 30 ft bgs (30 ft – 10 ft = 20 ft).

As reported in the Phase II RI Report (Solutions-IES, 2012) (**Attachment 2**), the hydraulic conductivity (K) value of the sand and gravel layer at the site was determined to be approximately 3.34E-05 ft/sec or 2.89 ft/day. The average groundwater velocity for the sand and gravel layer at the site was calculated to be 0.009 ft/day or 3.3 ft per year.

Groundwater levels at the site have fluctuated over the last few years. The site has a thin mantle of silty soil underlain by a clay layer. The clayey soil shown in **Figure 5** near the surface has the potential to perch water and influence groundwater flow direction. When the water table is above the clay, groundwater drains to the southeast as would be expected based on topography and the location of Bawdy Swamp Creek (**Figure 2**). During drier seasons, when the water table falls below or near the bottom of the clay, the water table slopes to the northwest. Therefore, groundwater flow from the injection area is not expected to flow towards Bawdy Swamp Creek. However, if it does, the maximum distance the injectant is expected to travel would be approximately 33 ft (based on the average groundwater velocity of 3.3 ft per year and expected injectant life in the aquifer of 10 years). The closest injection well to Bawdy Swamp Creek is approximately 50 ft. A monitoring well (MW-18) has been placed between Bawdy Swamp Creek and the closest injection well to monitor for injectant migration to the creek (**Figure 7**). Also, flow in Bawdy Swamp Creek is intermittent and generally serves as a transport for water runoff during storms.

During a pre-design investigation (PDI) conducted at the site in October 2012, trenching was performed near the storm sewer and sanitary sewer running east-west along the northern portion of the property. Trenching revealed that the deepest invert elevation of the utility is expected to be approximately 8 ft bgs. No gravel bedding was observed beneath the utilities. The shallowest injection well screen is 10 ft bgs. Injectant is not expected to migrate up into the clay layer and reach the utilities.

2. <u>HYDROGEOLOGIC EVALUATION</u> – Provide a hydrogeologic evaluation of the injection zone that includes all of the following:

(A) Regional and local geology and hydrology;
(B) Changes in lithology underlying the facility;
(C) Depth to bedrock;
(D) Depth to the mean seasonal high water table;
(E) Hydraulic conductivity, transmissivity, and storativity, of the injection zone based on tests of site-specific material, including a description of the test(s) used to determine these parameters;
(F) Rate and direction of groundwater flow as determined by predictive calculations or computer modeling; and
(G) Lithostratigraphic and hydrostratigraphic logs of any existing test and injection wells.

2.1 SITE AREA GEOLOGY

The site is located at the boundary between the Coastal Plain and Piedmont Physiographic Provinces where Coastal Plain sediments feather onto residual soil weathered from metamorphic and igneous bedrock. The 1985 Geologic Map of North Carolina (Rhodes and Conrad, 1985) shows the site area to be underlain by recent-aged terrace deposits and upland sediments that are described as gravel, clayey sand, and sand with minor occurrences of iron-cemented sandstone. Marine sediments of the Yorktown Formation have been mapped approximately 2 miles southeast as isolated outcrops southwest of the site. Older Cretaceous-aged sediments of the Cape Fear and Middendorf Formations are mapped several miles southwest and east of the site. Crystalline bedrock, mapped as biotite gneiss and felsic metavolcanics, is present a few miles west of the site. The Coastal Plain sediments thicken considerably within a short distance to the east. The location of a geological cross-section is depicted on **Figure 2** and the cross section is presented in **Figure 5**.

The soils present at the site are typically poorly drained soils on broad smooth flats and in shallow depressions in the uplands on the Coastal Plain. Surface soils in undisturbed areas at the site tend to consist of a few inches of topsoil underlain by residual sedimentary deposits of sands, clays and silts. The site soils have been mapped as Rains, Goldsboro and Lynchburg sandy loams, and Rains Urban Land Complex Series soils consisting of poorly drained sandy loam as described in the Phase I RI Report (Solutions-IES, 2008). The typical soil sequence consists of approximately 5 inches of gray sandy loam overlying several feet of red silty clay, with a USCS designation of “CL”, which is underlain by silty or clayey sandy soils (USCS designation ML) that transitions with increasing depth into slightly silty or slightly clayey sand mixtures (SP and SM) containing low but varying amounts of phosphatic sand grains.

2.2 SITE AREA HYDROGEOLOGY

The conceptual hydrogeologic model for the Piedmont is based on a sloped aquifer system where precipitation infiltrates through the unsaturated zone to recharge the water table. Groundwater moves down slope in response to gravity and discharges as springs in the topographic lows and as base flow to perennial streams and rivers. In most cases, the water table surface mimics the overlying land surface and surface topography can be used to estimate groundwater flow direction.

The Piedmont aquifer system at the former Eaton Selma site is divided into three groundwater transport zones. These zones include the surficial semi-confined unconsolidated zone, the underlying sand and gravel zone, and a highly weathered portion of the underlying bedrock. The sand and gravel zone and the competent bedrock are separated by a semi-confining silty-clay residuum that extends from approximately 38 to 50 ft bgs. The weathered bedrock zone occurs from approximately 50 to 64 ft bgs, which is from the bottom of the silty-clay residuum to the top of the competent bedrock.

A total of 13 permanent monitoring wells have been installed at the site. Eleven of the site wells are screened in the sand and gravel layer above the consolidated silty-clay residuum, while two monitoring wells (MW-14 and MW-15) have been installed to the top of bedrock in the weathered bedrock zone. The current site layout is presented on **Figure 2**.

The clay unit ("CL") described above occurs approximately 7 to 8 ft bgs as shown in the cross- section provided as **Figures 5**. The clay layer contributes to the surficial aquifer's semi-confined characteristics, which is supported by the low hydraulic conductivity, and the seasonal change in groundwater flow based on the depth of the water table. Groundwater tends to fluctuate up into the clay layer during wetter seasons.

2.3 GROUNDWATER FLOW

During Phase I RI site investigation activities in June and July 2008, generalized groundwater flow beneath the site appeared to be toward the west-northwest. But, groundwater levels at the site have fluctuated over the last few years and prior to the Phase I RI in April 2008, groundwater flow was to the south-southeast. **Figure 3** and **Figure 4** show recent shallow groundwater elevation maps prepared from measurements collected in October 2012 and January 2013, respectively. These maps suggest fluctuation in groundwater flow at the site. In October 2012, flow beneath the property was consistent, heading primarily in a south-southwest direction. However, in January 2013, groundwater flow in the northern portion of the site flows similarly to the south-southwest, but flow direction beneath the southern and central portions of the property appears to be toward the north with groundwater flow moving generally toward the northeast corner of the building from either direction.

As described above, the site has a thin mantle of silty soil underlain by a clay layer. The clayey soil shown in the cross-section near the surface has the potential to perch water and influence flow direction. When the water table is above the clay, groundwater drains to the southeast as would be expected based on topography and the location of Bawdy Swamp Creek. During drier seasons, when the water table falls below or near the bottom of the clay, the water table slopes to the northwest. Deeper groundwater flow within the weathered bedrock (deep aquifer) is expected to be primarily to the east and southeast.

3. INJECTANT INFORMATION – List each injectant in the space below and provide the following information for each injectant. *NOTE: Approved injectants can be found online at http://portal.ncdenr.org/web/wq/aps/gwpro. All other substances must be reviewed by the Division of Public Health, Department of Health and Human Services. Contact the UIC Program for more information (Ph# 919-807-6496).*

EOS XR; CoBupH-Mg; and BAC-9 Microbial Consortium

(A) MSDS, concentration at the point of injection, and percentage if present in a mixture with other injectants; MSDS for the three injectants are included in **Attachment 3**.

Concentration of injectant at injection (per nested well):
EOS XR (diluted 1:5 with water) = 1.6 lb/gal
CoBupH-Mg (diluted 1:1 with water) = 13.4 lb/gal
BAC-9 (concentrate) =10^{10} to 10^{12} cells/L (nominal)

Final concentration of injectant in aquifer within radius of influence after chase water (per nested well):
EOS XR = 0.27 lb/gal
CoBupH-Mg = 0.003 lb/gal
BAC-9 (concentrate) =10^{8} to 10^{10} cells/L (nominal)

(B) The source of fluids used to dilute, carry, or otherwise distribute the injectant throughout the injection zone. If any well within the area of review of the injection facility is to be used as the fluid source, then the following information shall be submitted: location/ID number, depth of source, formation, rock/sediment type, and a chemical analysis of the water from the source well, including analyses for all contaminants suspected or historically recognized in soil or groundwater on the site;

Water used to dilute injectants and assist with the distribution from the injection point (i.e., chase water) will be obtained from either a potable water source at the Johnston County Industries (JCI) building, or a fire hydrant located along East Preston Street just south of the north entrance to the facility.

(C) A description of the rationale for selecting the injectants and concentrations proposed for injection, including an explanation or calculations of how the proposed injectant volumes and concentrations were determined;

The challenge at this site is to address matrix diffusion from the clay layer located near the soil – groundwater interface. Therefore, Solution-IES is proposing to add an extended time-released emulsified oil (EOS XR[1]) to the sand and gravel layer beneath the clay layer to gradually release electron donors over a decade to treat CVOCs that will slowly diffuse out of the clay. The EOS XR substrate is designed to have a lifespan in the aquifer of up to 10 years, which is greater than other commercially available vegetable oil emulsion products.

Due to the low pH in much of the injection area, Solutions-IES will also inject a colloidal buffer (CoBupH-Mg) to increase the pH to more favorable conditions for bacteria. Once the aquifer pH has increased, bioaugmentation culture (BAC-9) will be injected to optimize and increase microbial activity.

The injection wells will be installed as two 2-inch nested wells with one well screened from 10 to 20 ft bgs and the other well screened from 20 to 30 ft bgs. Each nested well will be approximately 30 ft on-center from adjacent wells. The intent is to create a grid surrounding the storm sewer line running east-west along the northern portion of the property and then following south along the eastern portion of the property to increase the

[1] EOS XR and CoBupH-Mg™ are products of EOS Remediation, LLC. EOS XR has been approved for use at this site and in North Carolina in correspondence received from the NCDENR Division of Public Health dated April 17, 2013. CoBupH-Mg was approved for use in North Carolina on October 16, 2012.

potential for contact between contaminants, substrate and microbes. The total volume of injectants and chase water into each nested well was calculated as follows:

Volume = πr^2 (h) (n) (V_{SF}) (T) Where: r (radius) = 15 ft
h (height) = 20 ft
n (effective porosity) = 0.20
V_{SF} (volume scaling factor) = 0.4
T (transmitting percent of screen) = 75%

Volume = π (15 ft)^2 (20 ft) (0.20) (0.4) (75 %) = 848 cf = 6,345 gallons

The total volume of EOS XR that will be injected into each nested well is approximately 212 gallons. The volume of EOS XR was determined using the Emulsified Oil Design Tool provided by the Environmental Security Technology Certification Program. EOS XR will be diluted with water at a ratio of 5:1 prior to injection.

The total volume of CoBupH-Mg that will be injected into each nested well is approximately 1.2 gallons. The volume of CoBupH-Mg was determined based on base calculations derived from soil testing conducted during a PDI in October 2012 and February 2013. The volume of CoBupH-Mg is an average across the whole site and may vary slightly per injection well based on analysis of aquifer pH and the location of the injection well. CoBupH-Mg will be diluted with water at a ratio of 1:1 prior to injection.

The remaining volume in each well to reach the ROI will be chase water. The distribution of the injectants and water into each nested injection well may vary, depending on injection well location. On average, we anticipate injecting approximately two-thirds of the product, dilution water, and chase water into the 10 to 20 ft bgs screen interval, and the remaining one-third of the product, dilution water, and chase water into the 20 to 30 ft bgs screen interval.

(D) A description of the reactions between the injectants and the contaminants present including specific breakdown products or intermediate compounds that may be formed by the injection;

The process of biologically degrading PCE is known as enhanced reductive dechlorination (ERD). In this process, the chlorinated compounds are electron acceptors and require that an appropriate electron donor be present in the presence of appropriate microorganisms for the biodegradation to occur. The most common electron donor in this process is hydrogen (H_2), which may be produced via primary or secondary fermentation of a variety of organic substrates that are naturally occurring or introduced to the subsurface. Hydrogen is the electron donor that is oxidized, and the chlorinated solvent is the electron acceptor which is reduced. Potential sources of molecular H_2 at the Selma site include natural organic matter or organic substrates (EOS XR) that are introduced to enhance site conditions. The purpose of introducing EOS XR into the subsurface is to provide bioavailable organic carbon that can be fermented by non-specific indigenous microbial populations to create a reducing environment and produce hydrogen that can be used by specialized dechlorinating bacteria.

Current conditions at Selma and the expected change as a result of the introduction of CoBupH-Mg, EOS XR and BAC-9, are noted below:

- pH ranges from pH 3.2 to pH 6.4. CoBupH-Mg is intended to increase the pH into the preferred range of 5.5 to 8.0 for biological activity;
- DO ranges from 0.2 to 1.0 mg/L. EOS XR is intended to promote consumption of residual DO and drive the DO to <0.5 mg/L, which is more conducive to anaerobic reductive dechlorination.
- ORP ranges from -94 to 401 mV. Injection of EOS XR is intended to create reducing conditions in the aquifer (ORP < -100 mV), which is more conducive to anaerobic reductive dechlorination.
- Volatile Fatty Acids: Breakdown products of soybean oil metabolism. Short-lived indicators of anaerobic fermentation of the substrate.
- Methane: Anaerobic fermentation of bioavailable carbon at deeply reducing conditions results in

methanogenesis. Depending on the alteration of the oxidation-reduction potential that is achieved in the aquifer, increased methane may occur.

- Nitrate-N and Sulfate: If they are present, they typically serve as electron acceptors after DO is gone and become reduced themselves. Low background concentrations of nitrate and sulfate are expected, but should decrease with formation of a carbon-rich reducing environment.
- Total Organic Carbon: Introducing EOS XR will result in a sharp increase in TOC. This effect will dissipate over time as the carbon is metabolized. Concentrations of TOC > 20 mg/L are desirable.
- Dechlorinating microbial community. Increases in *Dehalococcoides sp.* (DHC) are desirable, especially after bioaugmentation. This microorganism is needed to complete the biodegradation of PCE to TCE, 1,2-DCE, vinyl chloride and ethene.

(E) A summary of results if modeling or testing was performed to investigate the injectant's potential or susceptibility for biological, chemical, or physical change in the subsurface;

A PDI was performed in February 2013 that included the collection of soil samples for analysis of the amount of base required to increase the pH at the site. Injection testing has not been performed, but based on specific capacity test performed at the site during the RI and experience, injection should not be an issue into the sand and gravel layer.

(F) An evaluation concerning the development of byproducts of the injection process, including increases in the concentrations of naturally occurring substances. Such an evaluation shall include the identification of the specific byproducts of the injection process, projected concentrations of byproducts, and areas of migration as determined through modeling or other predictive calculations.

Naturally occurring compounds and elements that may be impacted by the injection of substrate and intentional creation of a carbon-rich, anaerobic, reducing environment include nitrate, sulfate, iron and other metals, if present. Although the RI and PDI have provided some background data, comprehensive pre- injection monitoring has not been conducted to date. A complete baseline sampling event is planned after the installation of the injection wells and prior to injection. Concentrations of nitrate, sulfate, ferrous iron, magnesium methane, ethane, ethene, and TOC will be monitored. Reductions are expected for nitrate and sulfate. Iron should increase, as is typical of the reduction of ferric iron to ferrous iron in reducing conditions. Ferrous iron is more soluble and tends to be detected in the aqueous phase as the aquifer becomes more reducing. The transformation of iron is non-toxic at this level and tends to reverse as both iron-mediated microbial transformations occur and as impacted groundwater moves downgradient and out of the reducing environment, where the ferrous iron will re-oxidize and precipitate.

4. **INJECTION PROCEDURE** – Submit a table with a detailed description of the proposed injection procedure that includes the following:

(A) The proposed average and maximum daily rate and quantity of injectant;
(B) The average maximum injection pressure expressed in units of pounds per square inch (psi); and
(C) The total or estimated total volume to be injected.

Injectant	Zone A (10 – 20 ft bgs) IW-1A to IW-60A	Zone B (20 – 30 ft bgs) IW–1B to IW-60B
CoBupH-Mg	• Dilute 1.1 gal CoBupH-Mg in 1.1 gal water (1:1 dilution) • Inject 2.2 gal of dilute CoBupH-Mg into each of 60 wells • Injection rate: 1 gpm • Pressure < 10 psi • Total volume = 135 gallons	• Dilute 0.07 gal CoBupH-Mg in 0.07 gal water (1:1 dilution) • Inject 0.15 gal of dilute CoBupH-Mg into each of 60 wells • Injection rate: 1 gpm • Pressure < 15 psi • Total volume = 9 gallons
EOS XR	• Dilute 141 gal EOS XR in 707 gal water (5:1 dilution) • Inject 848 gal of dilute EOS XR into each of the 60 wells • Chase with 2,322 gal water in each well • Injection rate: 1 gpm • Pressure < 10 psi • Total volume = 190,221 gallons	• Dilute 71 gal EOS XR in 353 gal water (5:1 dilution) • Inject 424 gal of dilute EOS XR into each of the 60 wells • Chase with 2,748 gal water in each well • Injection rate: 1 gpm • Pressure < 15 psi • Total volume = 190,347 gallons
BAC-9	• Inject approximately 1 L per well • Chase with 53 gal water per well	• Inject approximately 1 L per well • Chase with 53 gal water per well

5. **FRACTURING PLAN** (if applicable) – Submit a detailed description of the fracturing plan that includes the following:

(A) Material Safety Data Sheets of fracturing media including information on any proppants used;
(B) a map of fracturing well locations relative to the known extent of groundwater contamination plus all buildings, wells, septic systems, underground storage tanks, and underground utilities located within the Area of Review;
(C) a demonstration that buildings, wells, septic systems, underground storage tanks, and underground utilities will not be adversely affected by the fracturing process;
(D) injection rate and volume;
(E) orientation of bedding planes, joints, and fracture sets of the fracture zone;
(F) performance monitoring plan for determining the fracture well radius of influence; and
(G) if conducted, the results of geophysical testing or pilot test of fracture behavior conducted in an uncontaminated area of the site.

Not applicable. There is no fracturing planned for this injection process.

6. **WELL CONSTRUCTION DETAILS** – Submit the following information in tabular or schematic form as appropriate for each item:

(A) number and depth of injection wells;
(B) number and depth of borings if using multi-level or "nested" well systems;
(C) indication whether the injection wells are existing or proposed (see installation date);
(D) depth and type of casing;
(E) depth and type of screen material;
(F) depth and type of grout;
(G) indication whether the injection wells are permanent or temporary "direct push" points; and
(H) plans and specifications of the surface and subsurface construction details.

Well ID	Nested Well Zone	Installation Date	PVC Riser (Casing) (ft bgs)	PVC Screen Interval (ft bgs)	Silica Sand Pack (ft bgs)	Bentonite (ft bgs)	Portland Cement Grout (ft bgs)	Long term use	Finish
IW-1 – IW-60	A	Proposed	2" 0-10	10 – 20	8 – 20	5 – 8	0 – 5	Permanent	FM-MHC-CP[1]
	B	Proposed	2" 0-20	20 – 30	18 – 30	15 – 18	0 – 15	Permanent	FM-MHC-CP

1. FM-MHC-CC = Flush Mount with Manhole Cover on 12 x 12-inch Concrete Pad

7. **MONITORING PLAN** – Submit a monitoring plan that includes the following:

(A) target contaminants plus secondary or intermediate contaminants that may result from the injection;
(B) other parameters that may serve to indicate the progress of the intended reactions;
(C) a list of existing and proposed monitoring wells to be used; and
(D) a sampling schedule to monitor the proposed injection.

Monitoring wells shall be of sufficient quantity and location to detect any movement of injection fluids, injection process byproducts, or formation fluids outside the injection zone. The monitoring schedule shall be consistent with the proposed injection schedule, pace of the anticipated reactions, and rate of transport of the injectants and contaminants.

Group A Monitoring Wells (16)
Shallow: MW-1, MW-2, MW-3, MW-4, MW-5, MW-8, MW-11, MW-9, MW-13, MW-16, MW-17, MW-18, MW-19, and MW-20 Deep: MW-14 and MW-15
Group B Monitoring Wells (5)
Shallow: MW-2, MW-4, MW-16, MW-18, and MW-19
Group C Monitoring Wells (9)
Shallow: MW-2, MW-4, MW-7, MW-8, MW-9, MW-16, MW-18, MW-19, and MW-20

Analysis	**Baseline**	**3-Month**	**6-Month**	**9-Month**	**First Annual**
Field Parameters					
Water Levels	Group A (16 wells)	Group C (9 wells)	Group C (9 wells)	Group C (9 wells)	Group A (16 wells)
DO, ORP, pH, Spec. Cond., Temperature					
Laboratory Parameters					
VOCs	Group A (16 wells)	Group C (9 wells)	Group C (9 wells)	Group C (9 wells)	Group A (16 wells)
Nitrate-N; sulfate					
Fe^{+3}/Fe^{+2}; Mg (total)					
TOC					
Alkalinity					
MEE					
VFA	Group B (5 wells)	Group B (5 wells)	Group B (5 wells)	Group B (5 wells)	Group B (5 wells)
DHC, TCE-reductase, VC-reductase		0		0	

8. <u>WELL DATA TABULATION</u> – Provide a tabulation of data on all existing or abandoned wells within the area of review of the injection well(s) that penetrate the proposed injection zone, including monitoring wells and wells proposed for use as injection wells. Such data shall include a description of each well's type, depth, and record of construction or abandonment.

Monitoring well construction forms for the following wells are provided in **Attachment 4**.

Monitoring Well or Piezometer ID	Installation Date	Well Depth (ft bgs)	Screened Interval (ft bgs)	Top of PVC (ft msl)
Shallow Monitoring Wells				
MW-2	6/11/2008	30	25 - 30	171.21
MW-3	6/10/2008	20	15 - 20	171.13
MW-4	6/10/2008	20	15 - 20	171.56
MW-6	7/19/2010	30	20 - 30	173.88
MW-7	7/20/2010	30	20 - 30	174.68
MW-8	7/15/2010	30	20 - 30	171.08
MW-9	7/15/2010	38	28 - 38	172.66
MW-11	7/16/2010	34	24 - 34	170.25
MW-16	Scheduled 9/16/2013	25	15 - 25	TBD
MW-17	Scheduled 9/16/2013	25	15 - 25	TBD
MW-18	Scheduled 9/16/2013	25	15 - 25	TBD
MW-19	Scheduled 9/16/2013	25	15 - 25	TBD
MW-20	Scheduled 9/16/2013	25	15 - 25	TBD
Deep Monitoring Wells				
MW-14	6/10/2011	57	47 - 57	171.45
MW-15	5/5/2011	56	46 - 56	171.49
Proposed Injection Wells				
IW-1A to IW-60A	Scheduled 9/16/2013	20	10 - 20	TBD
IW-1B to IW-60B	Scheduled 9/16/2013	30	20 - 30	TBD

TBD = To be determined

9. MAPS AND CROSS-SECTIONS – Provide scaled, site-specific site plans or maps depicting the location, orientation, and relationship of facility components including the following:

(A) **Figure 1.** Area map based on the most recent USGS 7.5' topographic map of the area, at a scale of 1:24,000 and showing the location of the proposed injection site;
(B) **Figure 2.** Topographic contour intervals showing all facility related structures, property boundaries, streams, springs, lakes, ponds, and other surface drainage features;
(C) **Figures 1, 2, and 7.** All existing or abandoned wells within the area of review of the wells listed in the well data tabulation that penetrate the proposed injection zone;
(D) **Figures 3 and 4.** Potentiometric surface map(s) that show the direction of groundwater movement, existing and proposed wells;
(E) **Figures 5, 6, and 7.** Contaminant plume map(s) with isoconcentration lines that show the horizontal extent of the contaminant plume in soil and groundwater, and existing and proposed wells;
(F) **Figure 5.** Cross-section(s) to the known or projected depth of contamination that show the horizontal and vertical extent of the contaminant plume in soil and groundwater, major changes in lithology, and existing and proposed wells; and
(G) **Not Applicable.** Any existing sources of potential or known groundwater contamination, including waste storage, treatment, or disposal systems within the area of review of the injection well or well system.

REFERENCES

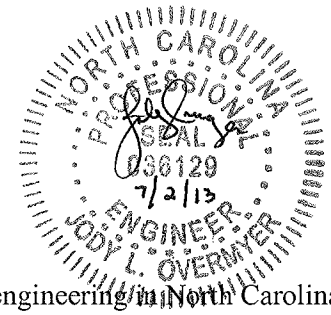
Rhodes, T.S. and Conrad, S.G., 1985. *Geologic Map of North Carolina.*

Solutions-IES, 2008. Phase I Remedial Investigation Report, Former Eaton Corporation Facility, 1100 East Preston Street, Selma, North Carolina, September.

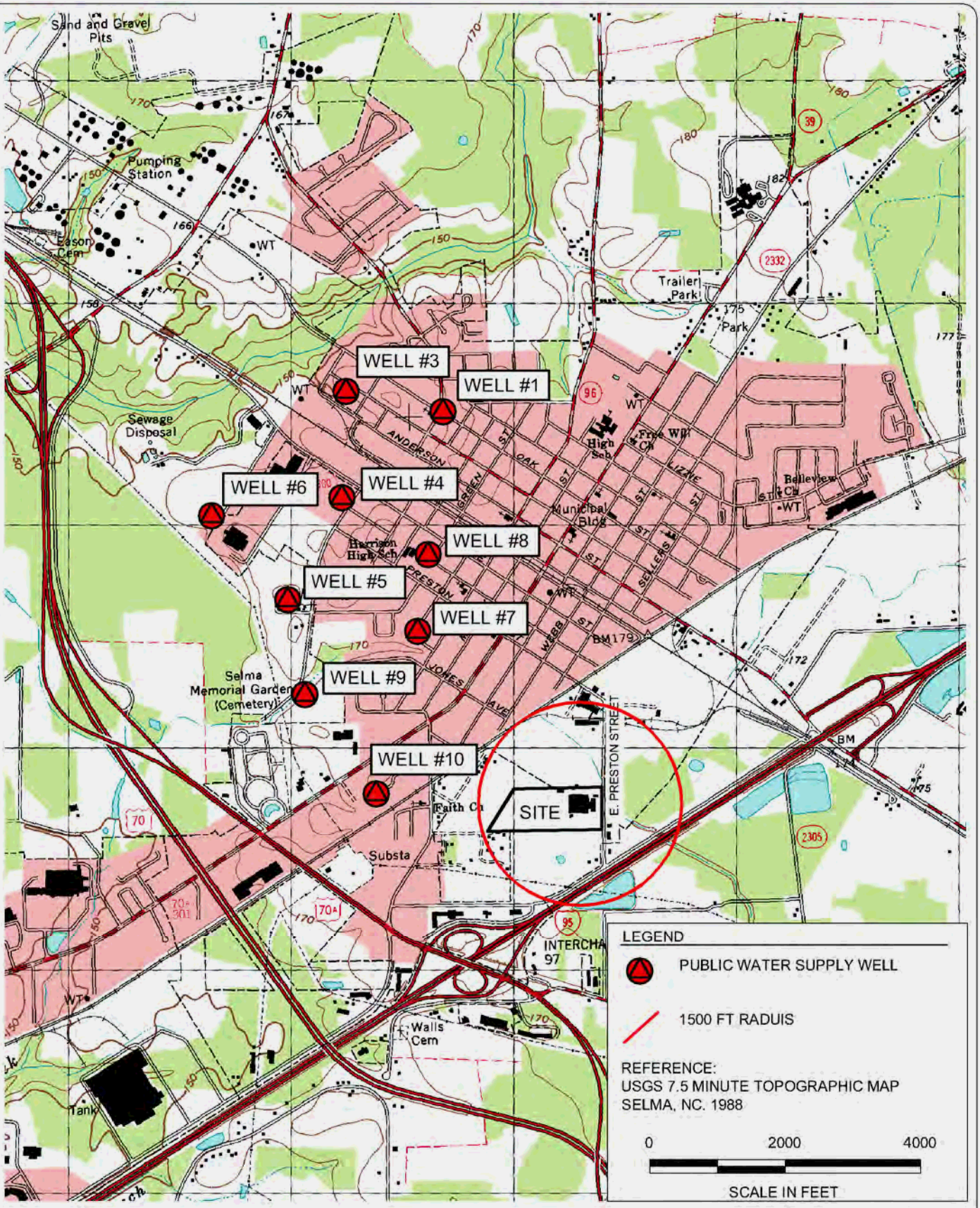
Solutions-IES, 2012. Phase II Remedial Investigation Report, Former Eaton Corporation Facility, 1100 East Preston Street, Selma, Johnston County, North Carolina, February 8.

PROFESSIONAL CERTIFICATION AND SEAL

The information contained in this permit application is correct and accurate to the best of my knowledge.



Solutions-IES, Inc. is licensed to practice engineering in North Carolina. The certification number of the company is C-1849.



PROJECT NUMBER 2013.0014.EATON

DRAFTER KTS

CHECKED BY JLO

PROJECT MANAGER JLO

DATE 6/25/2013

FILE GW RA UIC Permit.dwg

Solutions-IES
Industrial & Environmental Services
1101 NOWELL ROAD
RALEIGH, NORTH CAROLINA 27607
TEL.: (919) 873-1060 FAX.: (919) 873-1074

SITE LOCATION MAP
FORMER EATON FACILITY
1100 EAST PRESTON STREET
SELMA, JOHNSTON COUNTY, NC

FIGURE: 1

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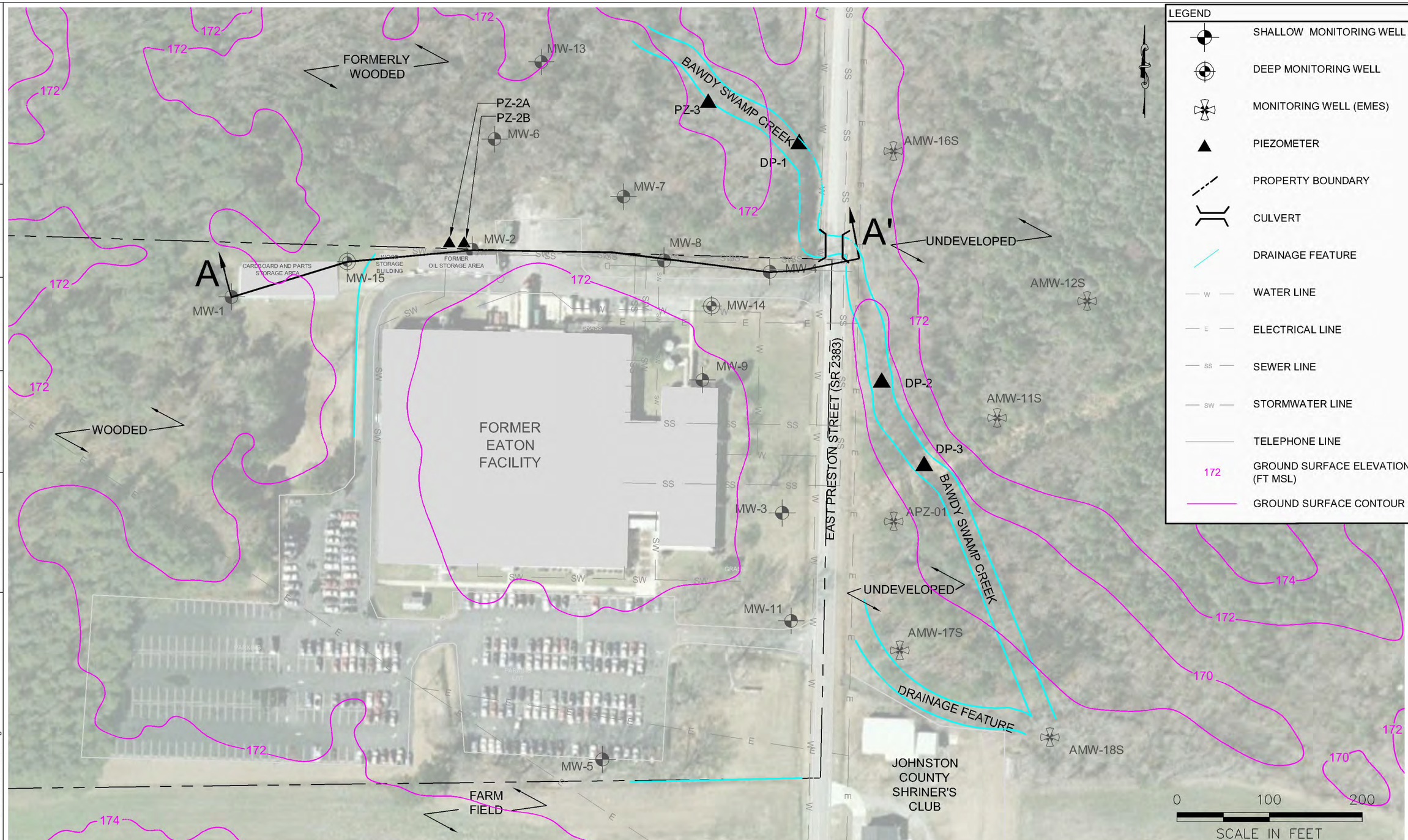
PROJECT NUMBER 2013.0014.EATON | DRAFTER KTS | CHECKED BY JLO | PROJECT MANAGER JLO | DATE 6/25/2013 | FILE GW RA UIC Permit.dwg



Solutions-IES
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TEL.: (919) 873-1060 FAX.: (919) 873-1074

NOTES:
1) BASEMAP OBTAINED FROM JIMMY BARBOUR SURVEYING, PA, APRIL 2008 .
2) WELL LOCATIONS ARE BASED ON SURVEY DATA PROVIDED BY KCI ASSOCIATES OF N.C. JUNE 2008 & JULY 2010.
3) GROUND SURFACE CONTOUR LINES FROM JOHNSTON COUTY GIS.

FORMER EATON FACILITY
1100 EAST PRESTON STREET
SELMA, JOHNSTON COUNTY, NC

SITE MAP WITH GEOLOGIC CROSS SECTION LOCATION

FIGURE: 2

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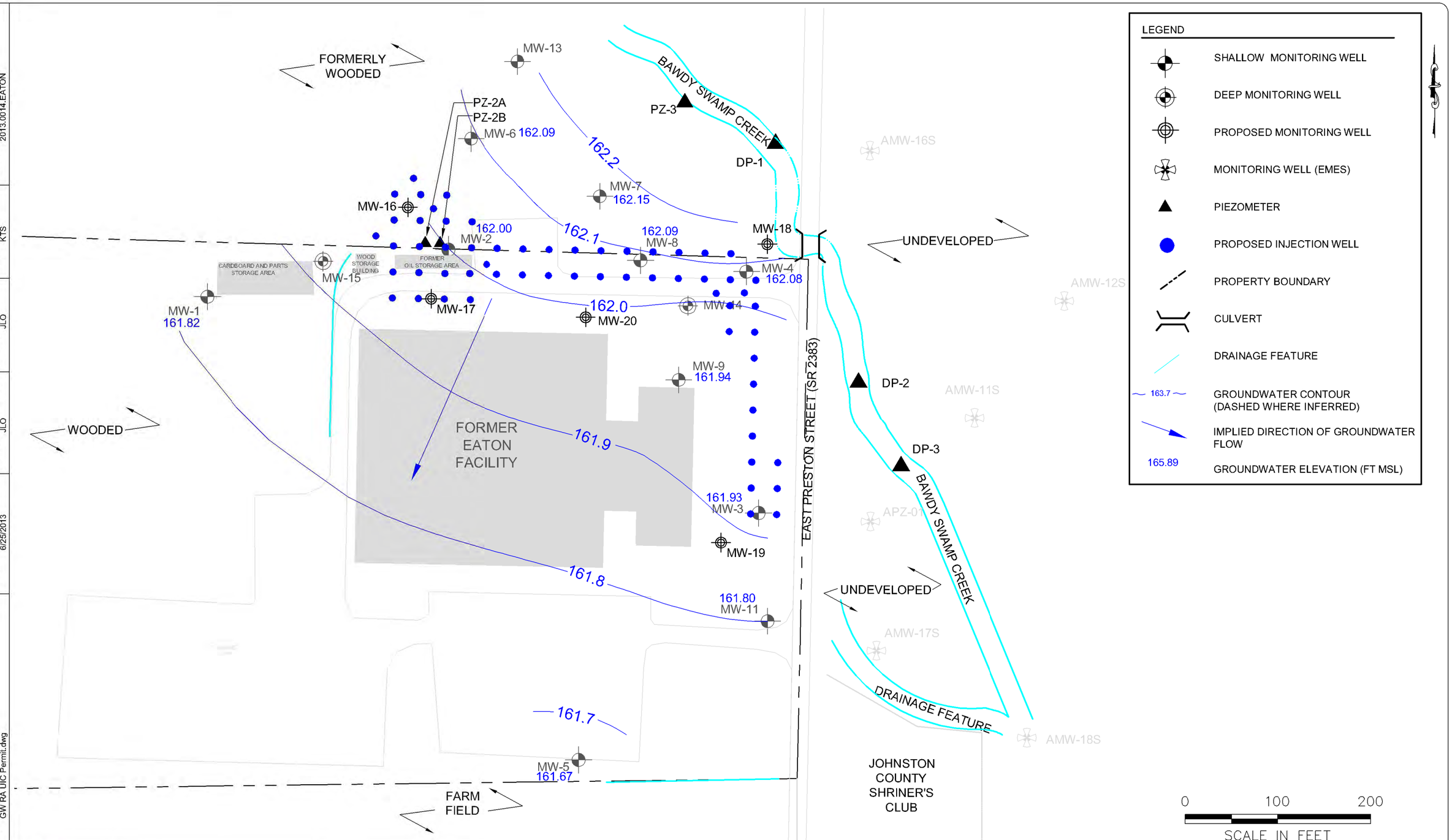

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3) AMW WELLS NOT USED TO GENERATE GROUNDWATER ELEVATION MAP.

FORMER EATON FACILITY
1100 EAST PRESTON STREET
SELMA, JOHNSTON COUNTY, NC

SHALLOW GROUNDWATER ELEVATION MAP
OCTOBER 2012

FIGURE: 3

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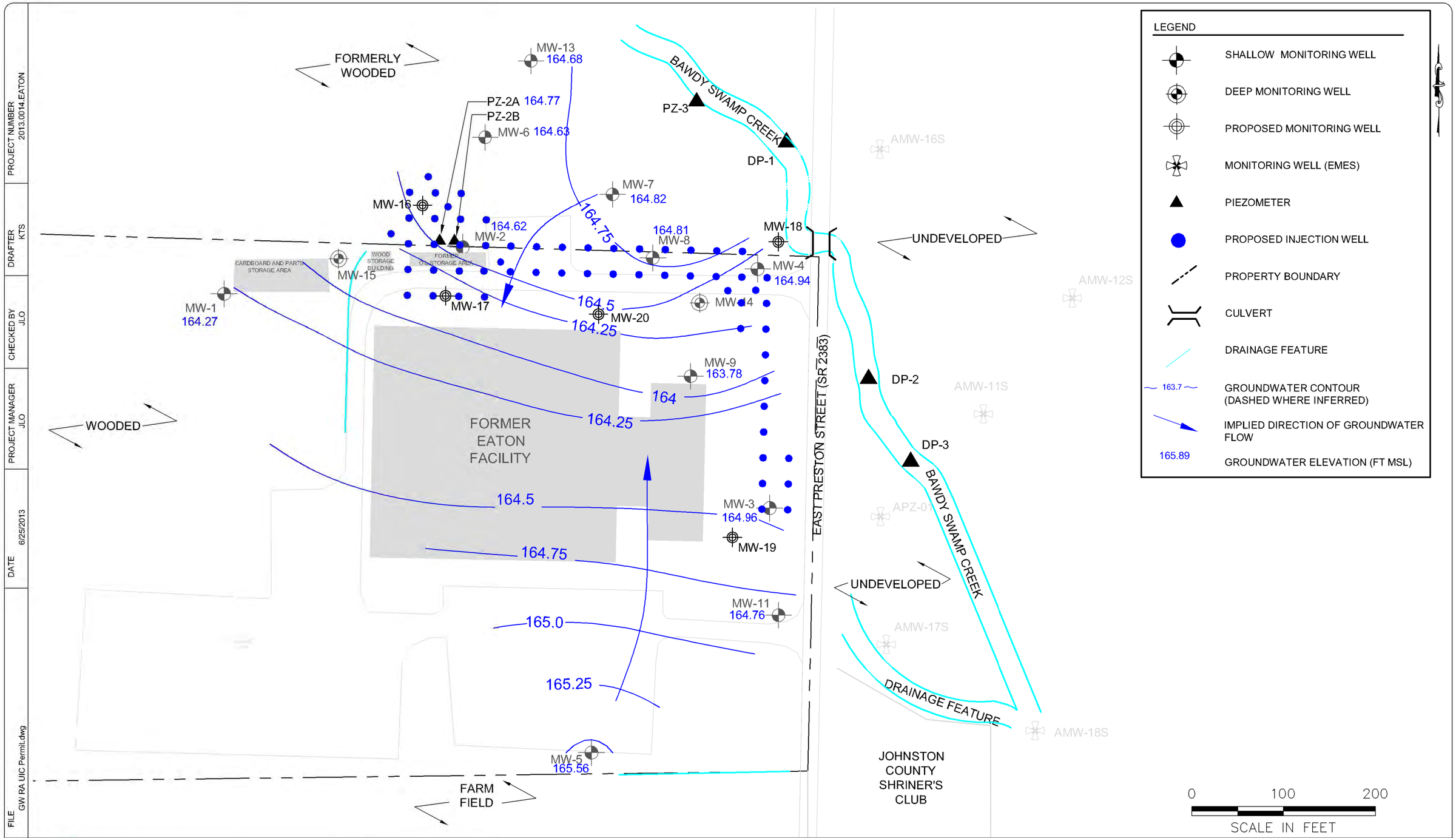
PROJECT MANAGER JLO
DATE 6/25/2013
FILE GW RA UIC Permit.dwg



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RALEIGH, NORTH CAROLINA 27607
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3) AMW WELLS NOT USED TO GENERATE GROUNDWATER ELEVATION MAP.

FORMER EATON FACILITY
1100 EAST PRESTON STREET
SELMA, JOHNSTON COUNTY, NC

SHALLOW GROUNDWATER ELEVATION MAP
JANUARY 2013

FIGURE: 4

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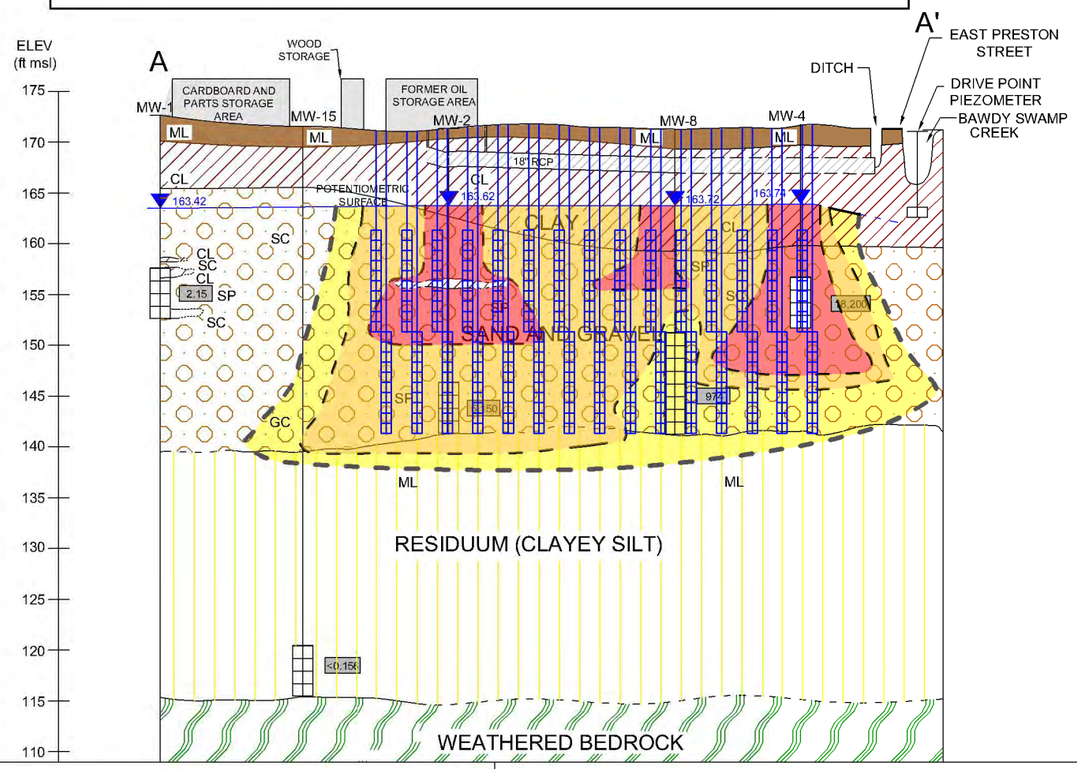
PROJECT NUMBER 2013.0014.EATON | DRAFTER KTS | CHECKED BY JLO | PROJECT MANAGER JLO | DATE 6/25/2013 | FILE GW RA UIC Permit.dwg

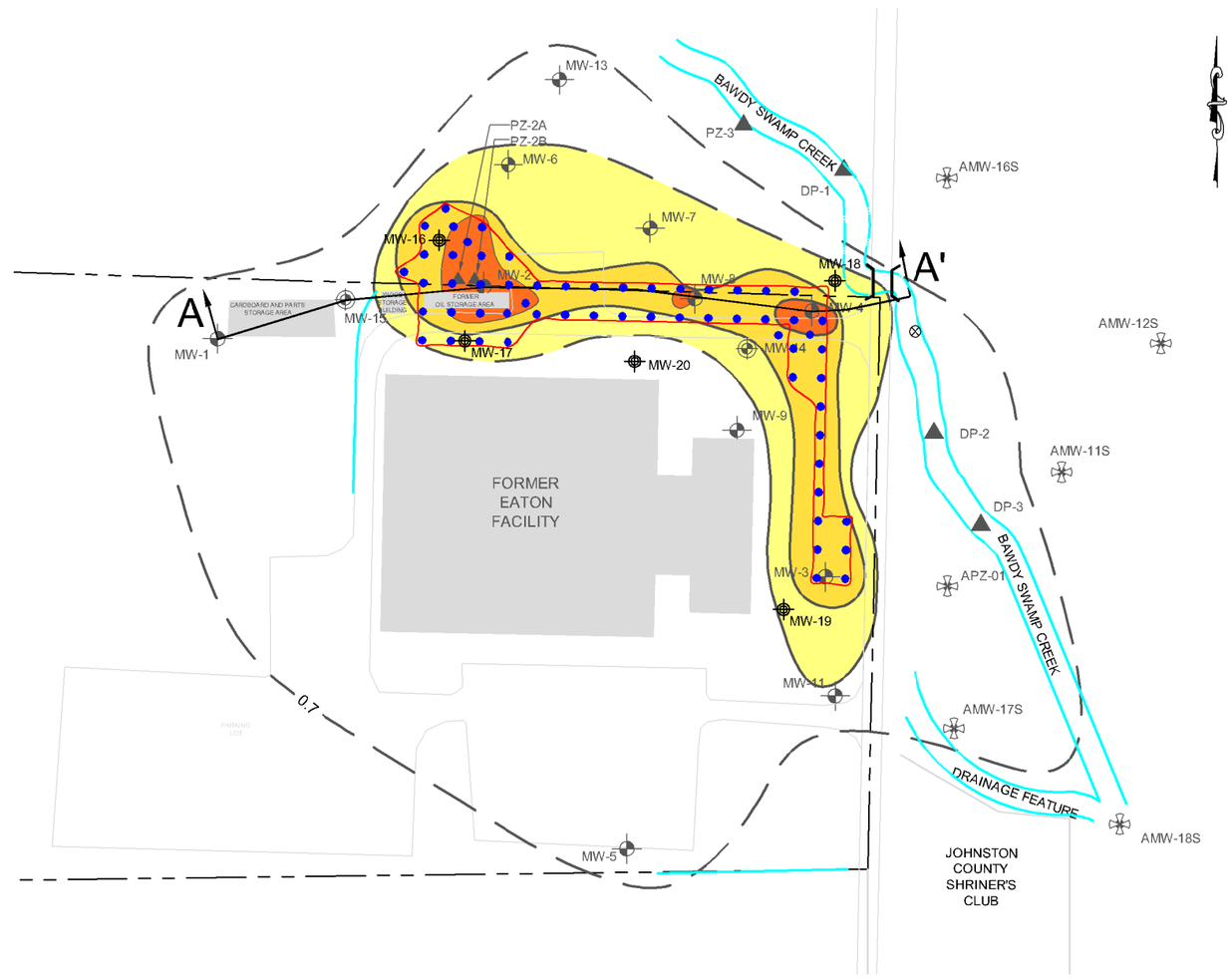
LEGEND

- PROPERTY BOUNDARY
- SHALLOW MONITORING WELL
- DEEP MONITORING WELL
- PROPOSED MONITORING WELL
- MONITORING WELL (EMES)
- PIEZOMETER
- SEDIMENT AND SURFACE WATER SAMPLE LOCATION
- 163.42 GROUNDWATER ELEVATION (FT MSL)
- STATIC WATER LEVEL JUNE 27, 2011
- 1.53 MONITOR WELL SCREENED INTERVAL AND PCE CONCENTRATION (µg/L)
- PROPOSED INJECTION WELL SCREENED INTERVAL
- DRAINAGE FEATURE
- CULVERT
- INJECTION ZONE
- PROPOSED INJECTION WELL

ISOCONCENTRATION CONTOURS OF PCE IN GROUNDWATER:

- $\geq 10^4$ µg/L
- $\geq 10^3$ µg/L
- $\geq 10^2$ µg/L
- ≥ 0.7 µg/L





VERTICAL SCALE

0 15 30

SCALE IN FEET

HORIZONTAL SCALE

0 150 300

SCALE IN FEET

0 150 300

SCALE IN FEET

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Industrial & Environmental Services
1101 NOWELL ROAD
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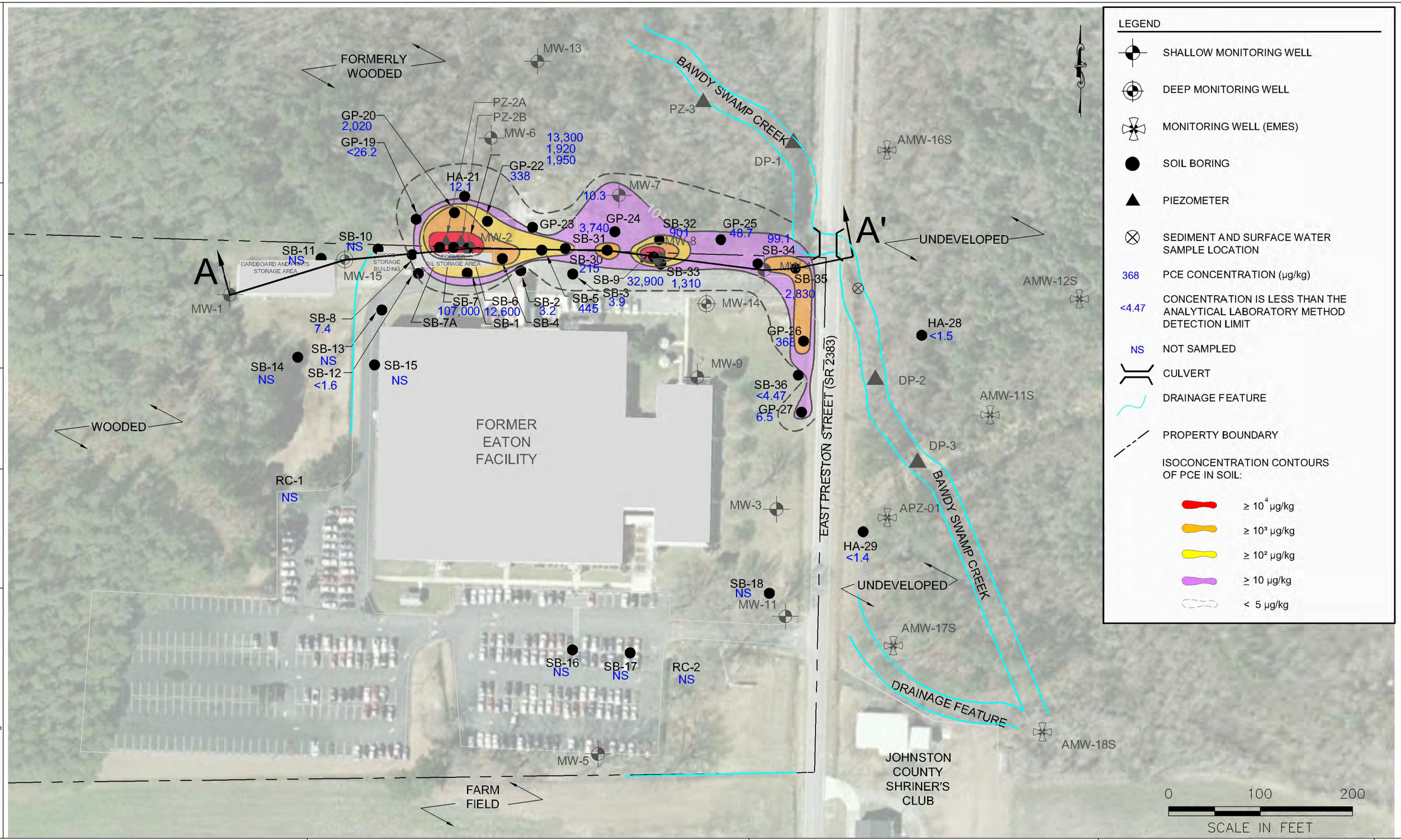
FORMER EATON FACILITY
1100 EAST PRESTON STREET
SELMA, JOHNSTON COUNTY, NC

ESTIMATED EXTENT OF PCE IN GROUNDWATER

FIGURE: 5

PROJECT NUMBER 2013.0014.EATON | DRAFTER KTS | CHECKED BY JLO | PROJECT MANAGER JLO | DATE 6/25/2013 | FILE GW RA UIC Permit.dwg



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FORMER EATON FACILITY
1100 EAST PRESTON STREET
SELMA, JOHNSTON COUNTY, NC

ESTIMATED EXTENT OF PCE IN SOIL

FIGURE: 6

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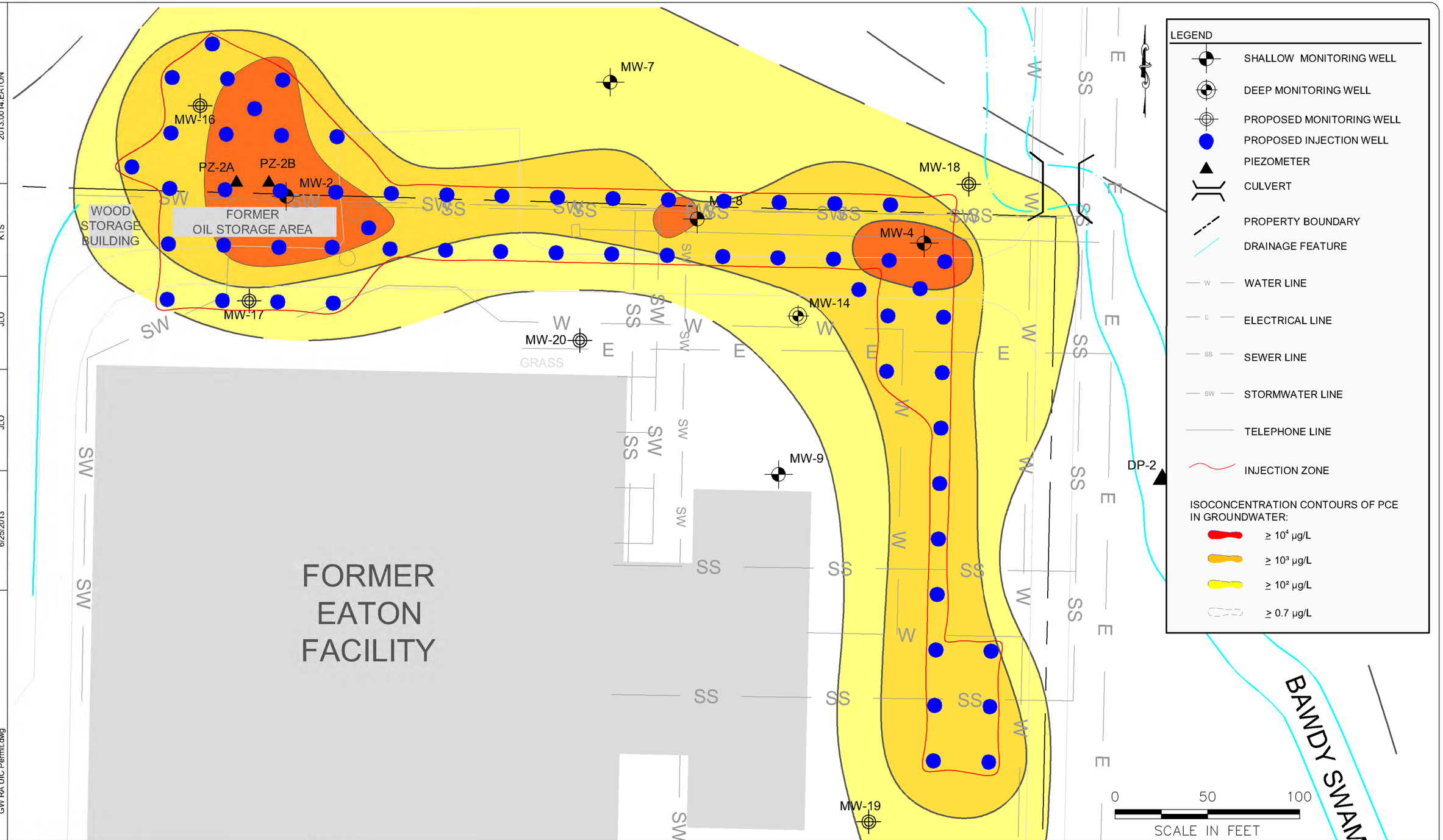
DATE 6/25/2013
FILE GW RA UIC Permit.dwg



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Industrial & Environmental Services
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RALEIGH, NORTH CAROLINA 27607
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FORMER EATON FACILITY
1100 EAST PRESTON STREET
SELMA, JOHNSTON COUNTY, NC

PROPOSED INJECTION WELL LOCATIONS

FIGURE: 7

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ATTACHMENT 1

KAREN SOUZA SIGNATURE AUTHORIZATION

EATON
Powering Business Worldwide

1111 Superior Ave
Cleveland, Ohio 44114
Tel: 216-523-4777
Fax: 216-479-7223

February 10, 2012

Ms. Karen Souza, P.G.
Allegheny Environmental Services, Inc.
28 Oak Knoll Drive
Pittsburgh, PA 15238

RE: Agreement to Sign North Carolina REC Certification Pages on Behalf of Eaton Corporation

Dear Ms. Souza:

Eaton Corporation is mindful of the rules governing signature of certification pages within the North Carolina Registered Environmental Consultant (REC) Program under 15A NCAC 13C .0306. As such, Eaton Corporation grants you the permission to sign North Carolina REC Certification pages on our behalf.

Yours Truly,

Jeffrey Allen, PG, CHMM
Manager, Growth, Acquisitions and Remediation
Environment, Health, Safety and Security

ATTACHMENT 2

PAGES FROM PHASE II RI REPORT

PHASE II REMEDIAL INVESTIGATION REPORT
FORMER EATON CORPORATION FACILITY
1100 EAST PRESTON STREET
SELMA, JOHNSTON COUNTY, NORTH CAROLINA
LONGITUDE W78°17'02", LATITUDE N35°31'33"
NONCD 0002853

Prepared for:

Eaton Corporation, Inc.
1111 Superior Avenue
Cleveland, OH 44114

Prepared by

Solutions-IES, Inc.
1101 Nowell Road
www.solutions-ies.com
Solutions-IES Project No. 6010.08A2.EATN

February 8, 2012

Kathryn Doll
Environmental Scientist

Jody Overmyer, P.E.
Project Manager

Solutions-IES
Industrial & Environmental Services

As described in **Section 2.2**, the site has a thin mantle of silty soil underlain by a clay layer. The clayey soil shown in the cross-section near the surface has the potential to perch water and influence flow direction. When the water table is above the clay, groundwater drains to the southeast as would be expected based on topography and the location of Bawdy Swamp Creek. During drier seasons, when the water table falls below or near the bottom of the clay, the water table slopes to the northwest. Deeper groundwater flow within the weathered bedrock (deep aquifer) is expected to be primarily to the east and southeast.

4.2.1 Aquifer Testing

As part of the Phase I RI, slug tests were conducted on July 16, 2008. The results were presented in the Phase I RI Report and included as an appendix in the Phase II RIWP (Solutions-IES, 2008). The tests were conducted on three permanent monitoring wells: MW-2, MW-4 and MW-5. The hydraulic conductivity (K) values for these three wells were 2.14E-05 ft per second (ft/sec) (1.85 ft per day [ft/day]), 4.91E-05 ft/sec (4.24 ft/day), and 3.55E-05 ft/sec (3.07 ft/day), respectively. The geometric mean of the three K values is 3.34E-05 ft/sec (2.89 ft/day).

4.2.2 Hydraulic Gradients and Groundwater Flow Rate

The average groundwater gradient was calculated from the groundwater elevation data collected during the June 2011 sampling event using wells MW-1 and MW-8 in the shallow aquifer. Hydraulic gradient is calculated using the following equation:

$$i = \frac{dh}{dl}$$

Where: i = the horizontal hydraulic gradient (unitless)
dh is the difference between two hydraulic heads (ft)
dl is the flow path length between the two wells (ft)

The average horizontal gradient (i) in the shallow zone is:

$$\mathrm{i_H} = \frac{(163.72\mathrm{ft} - 163.42\mathrm{ft})}{475\mathrm{ft}} = 0.0006$$

The vertical gradient between adjacent wells MW-4 and MW-14 was calculated by subtracting the water levels measured in each well during the June 2011 sampling event and dividing by the distance between the mid-points of each of the screens.

$$i_V = \frac{(163.74\text{ft} - 163.92\text{ft})}{(154.06\text{ft} - 119.45\text{ft})} = -0.005 \quad \text{upward}$$

The geometric mean of the three slug tests (Bouwer & Rice method) conducted on July 16, 2008, and hydraulic gradient discussed above were used with an estimate of effective soil porosity to calculate the average linear groundwater flow velocity according to the equation:

$$V = \frac{K \times i}{n}$$

Where: V = the average linear flow velocity in feet per day
K = the hydraulic conductivity in feet per day
i = the horizontal hydraulic gradient (unitless)
n = the soil effective porosity

An effective porosity value of 20 percent was assumed based on published data for a silty clay (Fetter, 1993). The average groundwater velocity for the site was calculated to be 0.009 ft/day or 3.3 ft per year. The aquifer calculations are provided in **Appendix K**.

4.3 GROUNDWATER SAMPLING RESULTS

4.3.1 Temporary Monitoring Wells

The analytical groundwater results from the temporary monitoring wells installed during the Phase II RI are shown in **Table 4**. Each of the 11 temporary monitoring wells installed and sampled had PCE concentrations exceeding the NC 2L Standard of 0.7 µg/L, with the highest concentration reported in TMW-20 (27,400 µg/L) located north of the Former Oil Storage Area. The results from the temporary monitoring wells were used to guide the location of permanent monitoring wells MW-6 through MW-9 and MW-11.

1,4-Dioxane exceeded the NC 2L Standard of 3 µg/L in TMW-19 and TMW-20 (305 µg/L and 332 µg/L, respectively) when analyzed and reported as part of the standard EPA Method 8260 VOC scan. Previous analytical results reported by the analytical laboratory did not include results for 1,4-dioxane in the Method 8260 scan. As a result, 1,4-dioxane was added to the list of COCs for the site. However, the presence of 1,4-dioxane was not confirmed in the permanent monitoring wells (see **Section 4.3.2**).

ATTACHMENT 3

MSDS (EOS XR, CoBupH-Mg, and BAC-9)

EOS Remediation, LLC

MATERIAL SAFETY DATA SHEET

EOS PRO, EOS LS, EOS 450, EOS XR

1. MANUFACTUER AND EMERGENCY CONTACT

Manufacturer:

EOS Remediation, LLC
1101 Nowell Road
Raleigh, NC 27607
www.EOSRemediation.com
Phone: 919-873-2204
Fax: 919-873-1074

24-Hour Emergency Contact:

ChemTel Inc.
Phone: 1-800-255-3924
International
Phone: 813-248-0585

Date of Preparation:
January 9, 2013

2. HAZARDOUS INGREDIENTS / IDENTITY INFORMATION

COMPONENT(S)	% by WEIGHT	CAS NO.	EXPOSURE LIMITS		
			OSHA PEL-TWA	ACGIH TLV-TWA	NIOSH REL-TWA
Soybean Oil	45 - 60*	8001-22-7	Mist: 15 mg/m^3 (total) 5 mg/m^3 (respirable)	NE	Mist: 10 mg/m^3 (total) 5 mg/m^3 (respirable)
Emulsifiers Trade Secret [1,2]	1 - 10	Proprietary	NE	NE	NE
Soluble Substrates Trade Secret [1,2]	4 - 8	Proprietary	Mist: 15 mg/m^3 (total) 5 mg/m^3 (respirable)	Mist: 10 mg/m^3	NE
Organic Substrate Trade Secret [1]	0 - 10	Proprietary	NE	Mist: 10 mg/m^3	NE
Food Additives / Preservatives Trade Secret [1]	0.1 - 1	Proprietary	NE	NE	NE
Nutrients / Extracts Trade Secret [1,2]	0 - 1	Proprietary	NE	NE	NE
Water	Balance	7732-18-5	NE	NE	NE

NE - Not established
1 - The precise composition of this product is proprietary information. A more complete disclosure will be provided to a physician in the event of a medical emergency.

2 - The soluble substrates and emulsifiers are generally recognized as safe for food contact.
* - Percentage of soybean oil varies by product.

3. PHYSICAL / CHEMICAL CHARACTERISTICS

pH:	Neutral
Boiling Point:	212°F
Specific Gravity:	0.96-0.98; 0.92 (pure oil phase)
Vapor Pressure:	Not established
Melting Point:	Liquid at room temperature
Percent Volatile by Volume (%):	25 - 48 (as water)
Vapor Density:	Heavier than air
Evaporation Rate:	Not established
Solubility in Water:	Dispersible
Appearance and Odor:	White liquid with vegetable oil odor

4. FIRE AND EXPLOSION HAZARD DATA

Flash Point:	>300°F
Flammable Limits:	Not established
Extinguishing Media:	CO_2, foam, dry chemical Note: Water, fog and foam may cause frothing and spattering.
Special Fire Fighting Procedures:	Wear self-contained breathing apparatus and chemical resistant clothing. Use water spray to cool fire exposed containers.
Unusual Fire Hazards:	Burning will cause oxides of carbon.
Unusual Explosion Hazards:	None

5. REACTIVITY DATA

Stability:	Stable
Incompatibility:	Strong acids and oxidizers
Hazardous Decomposition Products:	Thermal decomposition may produce oxides of carbon.
Hazardous Polymerization:	Will not occur
Conditions to Avoid:	None known

6. HEALTH HAZARD DATA

Routes of Entry:	Ingestion, dermal
Health Hazards:	
Acute:	Potential eye and skin irritant
Chronic:	None known
Carcinogenicity:	
N.T.P:	No
IARC:	No
OSHA:	No
Signs and Symptoms of Exposure:	None known
Medical Conditions Aggravated by Exposure:	None known

Emergency First Aid Procedures:

Inhalation:	Remove to fresh air.
Eyes:	Flush with water for 15 minutes; if irritation persists see a physician.
Skin:	Wash with mild soap and water.
Ingestion:	Product is non-toxic. If nausea occurs, induce vomiting and seek medical attention.

7. PRECAUTIONS FOR SAFE HANDLING AND USE

Handling and Storage:	Do not store near excessive heat or oxidizers.
Other Precautions:	None
Spill Response:	Soak up with dry absorbent and flush area with large amounts of water.
Waste Disposal Methods:	Dispose of according to Federal and local regulations for non-hazardous waste.

8. CONTROL MEASURES

Respiratory Protection:	Not normally required.
Ventilation:	Local exhaust
Protective Gloves:	Recommended
Eye Protection:	Recommended
Other Protective Clothing or Equipment:	None

The information contained herein is based on available data and is believed to be correct. However, EOS Remediation, LLC makes no warranty, expressed or implied, regarding the accuracy of this data or the results to be obtained thereof. This information and product are furnished on the condition that the person receiving them shall make his/her own determination as to the suitability of the product for his/her particular purpose.

MATERIAL SAFETY DATA SHEET

CoBupHMg

1. MANUFACTUER AND EMERGENCY CONTACT

Manufacturer:

EOS Remediation, LLC
1101 Nowell Road
Raleigh, NC 27607
www.EOSRemediation.com
Phone: 919-873-2204
Fax: 919-873-1074

24-Hour Emergency Contact:

ChemTel Inc.
Phone: 1-800-255-3924
International
Phone: 813-248-0585

Date of Preparation:
January 9, 2013

2. HAZARDOUS INGREDIENTS / IDENTITY INFORMATION

COMPONENT(S)	% by WEIGHT	CAS NO.	EXPOSURE LIMITS		
			OSHA PEL-TWA	ACGIH TLV-TWA	NIOSH REL-TWA
Alkaline Buffer Patent Pending [1]	45 - 50	Proprietary	15 mg/m^3	10 mg/m^3	15 mg/m^3
Dispersant Trade Secret [1]	1-2	Proprietary	Dusts Respirable 5 mg/m^3 Total 15 mg/m^3	NE	Dusts Respirable 5 mg/m^3 Total 15 mg/m^3
Stabilizer Trade Secret [1]	0.5-1	Proprietary	Dusts Respirable 5 mg/m^3 Total 15 mg/m^3	NE	Dusts Respirable 5 mg/m^3 Total 15 mg/m^3
Water	Balance	7732-18-5	NE	NE	NE

NE - Not established

1 - The precise composition of this product is proprietary information. A more complete disclosure will be provided to a physician in the event of a medical emergency.

3. PHYSICAL / CHEMICAL CHARACTERISTICS

Freeze Point:	0°C
Specific Gravity:	**1.6**
pH:	9-10 (saturated solution)
Vapor Pressure:	Not established
Percent Volatile by Volume (%):	Not applicable
Vapor Density:	Not applicable
Evaporation Rate:	Not established
Solubility in Water:	Slightly soluble
Appearance and Odor:	Milky white aqueous suspension; no odor

4. FIRE AND EXPLOSION HAZARD DATA

Flash Point:	Not flammable or combustible
Flammable Limits:	Not established
Extinguishing Media:	Use media appropriate to primary source of fire. Otherwise, use CO_2, foam, or dry chemical Note: Water, fog and foam may cause frothing and spattering.
Special Fire Fighting Procedures:	Wear self-contained breathing apparatus and chemical resistant clothing. Use water spray to cool fire exposed containers.
Unusual Fire Hazards:	None known.
Unusual Explosion Hazards:	None known.

5. REACTIVITY DATA

Stability:	Stable
Incompatibility:	ACID (Strong) - vigorous reaction, heat generated; MALEIC ANHYDRIDE - Alkali and other alkaline earth compounds, including magnesium compounds, will cause explosive decomposition; PHOSPHORUS - when boiled with alkaline hydroxides yields mixed phosphines which may ignite spontaneously in air.
Hazardous Decomposition Products:	If container is left open at 100-110°F, water will evaporate causing product to become extremely viscous.
Hazardous Polymerization:	Will not occur
Conditions to Avoid:	None known

6. HEALTH HAZARD DATA

Routes of Entry:	Ingestion, dermal
Health Hazards:	
Acute:	Ingestion generally causes purging of the bowels; however, swallowing large amounts may lead to bowel obstruction. Potential eye and skin irritant.
Chronic:	None known.

Carcinogenicity:

N.T.P:	No
IARC:	No
OSHA:	No

Signs and Symptoms of Exposure:	Eye Contact: redness, tearing, conjunctivitis Skin Contact: drying, chapping, dermatitis.
Medical Conditions Aggravated by Exposure:	As with exposure to any environment without adequate personal protection, inhalation may aggravate any pre-existing respiratory disease; prolonged/frequent skin contact may lead to dermatitis.

Emergency First Aid Procedures:

Inhalation:	Remove to fresh air.
Eyes:	Flush with water for 15 minutes; if irritation persists see a physician.
Skin:	Wash with mild soap and water.
Ingestion:	Product is non-toxic. If nausea occurs, induce vomiting and seek medical attention.

7. PRECAUTIONS FOR SAFE HANDLING AND USE

Handling and Storage:	Keep container closed when not in use. Avoid contact with eyes. Consumption of food and beverages should be avoided in work area where product is being used. After handling product, always wash hands and face thoroughly with soap and water before eating, drinking or smoking.
Other Precautions:	Keep from freezing. Keep below 100°F to avoid evaporation of free water, which could lead to increased viscosity.
Spill Response:	Soak up with dry absorbent and flush area with large amounts of water.
Waste Disposal Methods:	Dispose of according to Federal and local regulations.

8. CONTROL MEASURES

Respiratory Protection:	Not normally required.
Ventilation:	Local exhaust
Protective Gloves:	Recommended
Eye Protection:	Recommended
Other Protective Clothing or Equipment:	None

The information contained herein is based on available data and is believed to be correct. However, EOS Remediation, LLC makes no warranty, expressed or implied, regarding the accuracy of this data or the results to be obtained thereof. This information and product are furnished on the condition that the person receiving them shall make his/her own determination as to the suitability of the product for his/her particular purpose.

MATERIAL SAFETY DATA SHEET

BAC-9

[Microbial Consortium]

1. MANUFACTUER AND EMERGENCY CONTACT

Manufacturer:

EOS Remediation, LLC
1101 Nowell Road
Raleigh, NC 27607
www.EOSRemediation.com
Phone: 919-873-2204
Fax: 919-873-1074

24-Hour Emergency Contact:

ChemTel Inc.
Phone: 1-800-255-3924
International
Phone: 813-248-0585

Date of Preparation:
January 9, 2013

2. HAZARDOUS INGREDIENTS / IDENTITY INFORMATION

COMPONENT(S)	% by WEIGHT	CAS NO.	EXPOSURE LIMITS		
			OSHA PEL-TWA	ACGIH TLV-TWA	NIOSH REL-TWA
Microbes and enzymes in a water-based medium Trade Secret [1,2]	100	Proprietary	NE	NE	NE

NE - Not established

1 - The precise composition of this product is proprietary information. A more complete disclosure will be provided to a physician in the event of a medical emergency.

2 - The components of BAC-9™ include non-pathogenic, naturally occurring non-altered anaerobic microbes and enzymes in a water-based medium.

3. PHYSICAL / CHEMICAL CHARACTERISTICS

Boiling Point:	100°C (water)
Specific Gravity:	0.9 to 1.1
Vapor Pressure:	24 mm Hg (water)
Melting Point:	0°C (water)
pH:	6.0 to 8.0
Vapor Density:	Not established
Evaporation Rate:	0.9 to 1.1
Solubility in Water:	Soluble
Appearance and Odor:	Murky, yellow to grey water with musty odor

4. FIRE AND EXPLOSION HAZARD DATA

Flash Point:	Not established
Flammable Limits:	Not established
Extinguishing Media:	CO_2, foam, dry chemical or water appropriate for surrounding materials
Special Fire Fighting Procedures:	None
Unusual Fire Hazards:	None
Unusual Explosion Hazards:	None

5. REACTIVITY DATA

Stability:	Stable
Incompatibility:	Water reactive materials
Hazardous Decomposition Products:	None
Conditions to Avoid:	None known

6. HEALTH HAZARD DATA

Routes of Entry/Exposure:	Ingestion, dermal
Health Hazards:	
Acute:	Potential eye and skin irritant, ingestion of large quantities may result in abdominal discomfort including nausea, vomiting, cramps, diarrhea and fever.
Chronic:	None known
Carcinogenicity:	
N.T.P:	No
IARC:	No
OSHA:	No
Signs and Symptoms of Exposure:	None known
Medical Conditions Aggravated by Exposure:	None known
Emergency First Aid Procedures:	
Inhalation:	Remove to fresh air; if allergic symptoms develop see a physician.
Eyes:	Flush with water for 15 minutes; if irritation persists see a physician.
Skin:	Wash with mild soap and water; if allergic symptoms develop see a physician.
Ingestion:	Product is non-toxic; if allergic symptoms develop see a physician

7. PRECAUTIONS FOR SAFE HANDLING AND USE

Handling and Storage:	No special requirements
Other Precautions:	Eyewash station recommended
Spill Response:	Soak up with dry absorbent or vacuum into container.
Waste Disposal Methods:	Dispose of according to Federal and local regulations.

8. CONTROL MEASURES

Respiratory Protection:	Not normally required
Ventilation:	Provide proper ventilation to remove odors.
Protective Gloves:	Recommended
Eye Protection:	Recommended
Other Protective Clothing or Equipment:	Adequate to prevent skin contact

The information contained herein is based on available data and is believed to be correct. However, EOS Remediation, LLC makes no warranty, expressed or implied, regarding the accuracy of this data or the results to be obtained thereof. This information and product are furnished on the condition that the person receiving them shall make his/her own determination as to the suitability of the product for his/her particular purpose.

ATTACHMENT 4

WELL CONSTRUCTION FORMS

NON RESIDENTIAL WELL CONSTRUCTION RECORD

North Carolina Department of Environment and Natural Resources- Division of Water Quality

WELL CONTRACTOR CERTIFICATION # 3367

1. WELL CONTRACTOR:

GARY ELLINGWORTH
Well Contractor (Individual) Name

PARRATT-WOLFF, INC.
Well Contractor Company Name

STREET ADDRESS 501 MILLSTONE DRIVE

HILLSBOROUGH, NC 27278
City or Town State Zip Code

(919)- 644-2814
Area code- Phone number

2. WELL INFORMATION:

SITE WELL ID #(if applicable) MW-02

STATE WELL PERMIT#(if applicable)

DWQ or OTHER PERMIT #(if applicable)

WELL USE (Check Applicable Box) Monitoring ☒ Municipal/Public ☐

Industrial/Commercial ☐ Agricultural ☐ Recovery ☐ Injection ☐

Irrigation☐ Other ☐ (list use)

DATE DRILLED 6/11/08

TIME COMPLETED AM ☐ PM ☐

3. WELL LOCATION:

CITY: SELMA COUNTY JOHNSTON

1100 EAST PRESTON STREET
(Street Name, Numbers, Community, Subdivision, Lot No., Parcel, Zip Code)

TOPOGRAPHIC / LAND SETTING:

☐Slope ☐Valley ☐Flat ☐Ridge ☐ Other
(check appropriate box)

LATITUDE 3 5 31.573'

LONGITUDE 7 8 16.974'

May be in degrees, minutes, seconds or in a decimal format

Latitude/longitude source: ☐GPS ☒Topographic map

(location of well must be shown on a USGS topo map and attached to this form if not using GPS)

4. FACILITY- is the name of the business where the well is located.

FACILITY ID #(if applicable)

NAME OF FACILITY EATON CORPORATION

STREET ADDRESS 1100 EAST PRESTON STREET

SELMA NC 27576
City or Town State Zip Code

CONTACT PERSON

MAILING ADDRESS

City or Town State Zip Code

( )-
Area code - Phone number

5. WELL DETAILS:

a. **TOTAL DEPTH:** 30.0'

b. **DOES WELL REPLACE EXISTING WELL?** YES ☐ NO ☒

c. **WATER LEVEL** Below Top of Casing: 11.0 FT.
(Use "+" if Above Top of Casing)

d. **TOP OF CASING IS** 0 FT. Above Land Surface*
*Top of casing terminated at/or below land surface may require a variance in accordance with 15A NCAC 2C .0118.

e. **YIELD (gpm):** N/A **METHOD OF TEST** N/A

f. **DISINFECTION: Type** N/A **Amount** N/A

g. **WATER ZONES** (depth):

From N/A To From To
From To From To
From To From To

6. CASING:

	Depth		Diameter	Thickness/ Weight	Material
From 0	To 25	Ft.	2"	SCH 40	PVC
From	To	Ft.			
From	To	Ft.			

7. GROUT:

	Depth		Material	Method
From 0	To 21	Ft.	PORTLAND	TREMIE
From 21	To 23	Ft.	BENTONITE	TREMIE
From	To	Ft.		

8. SCREEN:

	Depth		Diameter		Slot Size		Material
From 25	To 30	Ft.	2"	in.	.010	in.	PVC
From	To	Ft.		in.		in.	
From	To	Ft.		in.		in.	

9. SAND/GRAVEL PACK:

	Depth		Size	Material
From 23	To 30	Ft.	#1	SAND
From	To	Ft.		
From	To	Ft.		

10. DRILLING LOG

From	To	Formation Description
2.0	4.0'	Brown/gray, moist CLAY; some silt
12.0	14.0	Light brown, wet, medium SAND
28.0	30.0	Blue/gray, moist SILT; trace clay

11. REMARKS:

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

SIGNATURE OF CERTIFIED WELL CONTRACTOR DATE 6/18/08

PRINTED NAME OF PERSON CONSTRUCTING THE WELL

Submit the original to the Division of Water Quality within 30 days. Attn: Information Mgt., 1617 Mail Service Center – Raleigh, NC 27699-1617 Phone No. (919) 733-7015 ext 568.

Form GW-1b
Rev. 7/05

NON RESIDENTIAL WELL CONSTRUCTION RECORD

North Carolina Department of Environment and Natural Resources- Division of Water Quality

WELL CONTRACTOR CERTIFICATION # 3367

1. WELL CONTRACTOR:

GARY ELLINGWORTH
Well Contractor (Individual) Name

PARRATT-WOLFF, INC.
Well Contractor Company Name

STREET ADDRESS 501 MILLSTONE DRIVE

HILLSBOROUGH, NC 27278
City or Town State Zip Code

(919)- 644-2814
Area code- Phone number

2. WELL INFORMATION:

SITE WELL ID #(if applicable) MW-03

STATE WELL PERMIT#(if applicable)

DWQ or OTHER PERMIT #(if applicable)

WELL USE (Check Applicable Box) Monitoring ☒ Municipal/Public ☐

Industrial/Commercial ☐ Agricultural ☐ Recovery ☐ Injection ☐

Irrigation☐ Other ☐ (list use)

DATE DRILLED 6/10/08

TIME COMPLETED AM ☐ PM ☐

3. WELL LOCATION:

CITY: SELMA COUNTY JOHNSTON

1100 EAST PRESTON STREET
(Street Name, Numbers, Community, Subdivision, Lot No., Parcel, Zip Code)

TOPOGRAPHIC / LAND SETTING:

☐Slope ☐Valley ☐Flat ☐Ridge ☐ Other
(check appropriate box)

LATITUDE 3 5 31.573'

LONGITUDE 7 8 16.974'

May be in degrees, minutes, seconds or in a decimal format

Latitude/longitude source: ☐GPS ☒Topographic map

(location of well must be shown on a USGS topo map and attached to this form if not using GPS)

4. FACILITY- is the name of the business where the well is located.

FACILITY ID #(if applicable)

NAME OF FACILITY EATON CORPORATION

STREET ADDRESS 1100 EAST PRESTON STREET

SELMA NC 27576
City or Town State Zip Code

CONTACT PERSON

MAILING ADDRESS

City or Town State Zip Code

( )-
Area code - Phone number

5. WELL DETAILS:

a. **TOTAL DEPTH:** 20.0'

b. **DOES WELL REPLACE EXISTING WELL?** YES ☐ NO ☒

c. **WATER LEVEL** Below Top of Casing: 11.0 FT.
(Use "+" if Above Top of Casing)

d. **TOP OF CASING IS** 0 FT. Above Land Surface*
*Top of casing terminated at/or below land surface may require a variance in accordance with 15A NCAC 2C .0118.

e. **YIELD (gpm):** N/A **METHOD OF TEST** N/A

f. **DISINFECTION: Type** N/A **Amount** N/A

g. **WATER ZONES** (depth):

From N/A To ____ From ____ To ____
From ____ To ____ From ____ To ____
From ____ To ____ From ____ To ____

6. CASING:

	Depth		Diameter	Thickness/ Weight	Material
From 0	To 15	Ft.	2"	SCH 40	PVC
From	To	Ft.			
From	To	Ft.			

7. GROUT:

	Depth		Material	Method
From 0	To 10	Ft.	PORTLAND	TREMIE
From 10	To 13	Ft.	BENTONITE	TREMIE
From	To	Ft.		

8. SCREEN:

	Depth		Diameter		Slot Size		Material
From 15	To 20	Ft.	2"	in.	.010	in.	PVC
From	To	Ft.		in.		in.	
From	To	Ft.		in.		in.	

9. SAND/GRAVEL PACK:

	Depth		Size	Material
From 13	To 20	Ft.	#1	SAND
From	To	Ft.		
From	To	Ft.		

10. DRILLING LOG

From	To	Formation Description
2.0	4.0'	Brown/gray, moist CLAY; some silt
12.0	14.0	Light brown, wet, medium SAND

11. REMARKS:

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15A NCAC 2C WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

Gary Ellingworth II 6/18/08
SIGNATURE OF CERTIFIED WELL CONTRACTOR DATE

Gary Ellingworth
PRINTED NAME OF PERSON CONSTRUCTING THE WELL

Submit the original to the Division of Water Quality within 30 days. Attn: Information Mgt., 1617 Mail Service Center – Raleigh, NC 27699-1617 Phone No. (919) 733-7015 ext 568.

Form GW-1b
Rev. 7/05

NON RESIDENTIAL WELL CONSTRUCTION RECORD

North Carolina Department of Environment and Natural Resources- Division of Water Quality

WELL CONTRACTOR CERTIFICATION # 3367

1. WELL CONTRACTOR:

GARY ELLINGWORTH
Well Contractor (Individual) Name

PARRATT-WOLFF, INC.
Well Contractor Company Name

STREET ADDRESS 501 MILLSTONE DRIVE

HILLSBOROUGH, NC 27278
City or Town State Zip Code

(919)- 644-2814
Area code- Phone number

2. WELL INFORMATION:

SITE WELL ID #(if applicable) MW-04

STATE WELL PERMIT#(if applicable)

DWQ or OTHER PERMIT #(if applicable)

WELL USE (Check Applicable Box) Monitoring ☒ Municipal/Public ☐

Industrial/Commercial ☐ Agricultural ☐ Recovery ☐ Injection ☐

Irrigation☐ Other ☐ (list use)

DATE DRILLED 6/10/08

TIME COMPLETED AM ☐ PM ☐

3. WELL LOCATION:

CITY: SELMA COUNTY JOHNSTON

1100 EAST PRESTON STREET
(Street Name, Numbers, Community, Subdivision, Lot No., Parcel, Zip Code)

TOPOGRAPHIC / LAND SETTING:

☐Slope ☐Valley ☐Flat ☐Ridge ☐ Other
(check appropriate box)

LATITUDE 3 5 31.573'

LONGITUDE 7 8 16.974'

May be in degrees, minutes, seconds or in a decimal format

Latitude/longitude source: ☐GPS ☒Topographic map

(location of well must be shown on a USGS topo map and attached to this form if not using GPS)

4. FACILITY- is the name of the business where the well is located.

FACILITY ID #(if applicable)

NAME OF FACILITY EATON CORPORATION

STREET ADDRESS 1100 EAST PRESTON STREET

SELMA NC 27576
City or Town State Zip Code

CONTACT PERSON

MAILING ADDRESS

City or Town State Zip Code

( )-
Area code - Phone number

5. WELL DETAILS:

a. **TOTAL DEPTH:** 20.0'

b. **DOES WELL REPLACE EXISTING WELL?** YES ☐ NO ☒

c. **WATER LEVEL** Below Top of Casing: 11.0 FT.
(Use "+" if Above Top of Casing)

d. **TOP OF CASING IS** 0 FT. Above Land Surface*
*Top of casing terminated at/or below land surface may require a variance in accordance with 15A NCAC 2C .0118.

e. **YIELD (gpm):** N/A **METHOD OF TEST** N/A

f. **DISINFECTION: Type** N/A **Amount** N/A

g. **WATER ZONES** (depth):

From N/A To From To
From To From To
From To From To

6. CASING:

	Depth		Diameter	Thickness/ Weight	Material
From 0	To 15	Ft.	2"	SCH 40	PVC
From	To	Ft.			
From	To	Ft.			

7. GROUT:

	Depth		Material	Method
From 0	To 11	Ft.	PORTLAND	TREMIE
From 11	To 13	Ft.	BENTONITE	TREMIE
From	To	Ft.		

8. SCREEN:

	Depth		Diameter	Slot Size	Material
From 15	To 20	Ft.	2" in.	.010 in.	PVC
From	To	Ft.	in.	in.	
From	To	Ft.	in.	in.	

9. SAND/GRAVEL PACK:

	Depth		Size	Material
From 13	To 20	Ft.	#1	SAND
From	To	Ft.		
From	To	Ft.		

10. DRILLING LOG

From	To	Formation Description
2.0	4.0'	Brown/gray, moist CLAY; some silt
12.0	14.0	Light brown, wet, medium SAND

11. REMARKS:

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

Gary Ellingworth II 6/18/08
SIGNATURE OF CERTIFIED WELL CONTRACTOR DATE

Gary Ellingworth II
PRINTED NAME OF PERSON CONSTRUCTING THE WELL

Submit the original to the Division of Water Quality within 30 days. Attn: Information Mgt., 1617 Mail Service Center – Raleigh, NC 27699-1617 Phone No. (919) 733-7015 ext 568.

Form GW-1b
Rev. 7/05

NON RESIDENTIAL WELL CONSTRUCTION RECORD

North Carolina Department of Environment and Natural Resources- Division of Water Quality

WELL CONTRACTOR CERTIFICATION # 2973

1. WELL CONTRACTOR:

Kevin White
Well Contractor (Individual) Name

Parratt-Wolff, Inc.
Well Contractor Company Name

501 Millstone Drive
Street Address

Hillsborough NC 27278
City or Town State Zip Code

(919) 644-2814
Area code Phone number

2. WELL INFORMATION:

WELL CONSTRUCTION PERMIT#

OTHER ASSOCIATED PERMIT#(if applicable)

SITE WELL ID #(if applicable) MW-6

3. WELL USE (Check One Box) Monitoring ☑ Municipal/Public ☐
Industrial/Commercial ☐ Agricultural ☐ Recovery ☐ Injection ☐
Irrigation☐ Other ☐ (list use)

DATE DRILLED 7/19/10

4. WELL LOCATION:

1100 East Preston Street
(Street Name, Numbers, Community, Subdivision, Lot No., Parcel, Zip Code)

CITY: Selma COUNTY Johnston

TOPOGRAPHIC / LAND SETTING: (check appropriate box)
☐Slope ☐Valley ☑Flat ☐Ridge ☐Other

LATITUDE 35 ° 31 ' 576.0000 " DMS **OR** 3x.xxxxxxxxx DD

LONGITUDE 78 ° 17 ' 2.0000 " DMS **OR** 7x.xxxxxxxxx DD

Latitude/longitude source: ☐GPS ☑Topographic map
(location of well must be shown on a USGS topo map andattached to this form if not using GPS)

5. FACILITY (Name of the business where the well is located.)

Johnston County Industries
Facility Name Facility ID# (if applicable)

1100 East Preston Street
Street Address

Selma NC 27576
City or Town State Zip Code

Contact Name

Mailing Address

City or Town State Zip Code

( )
Area code Phone number

6. WELL DETAILS:

a. **TOTAL DEPTH:** 30.0'

b. **DOES WELL REPLACE EXISTING WELL?** YES ☑ NO ☐

c. **WATER LEVEL** Below Top of Casing: 10.0 FT.
(Use "+" if Above Top of Casing)

d. **TOP OF CASING IS** 0 FT. Above Land Surface*
*Top of casing terminated at/or below land surface may require a variance in accordance with 15A NCAC 2C .0118.

e. **YIELD (gpm):** N/A **METHOD OF TEST** N/A

f. **DISINFECTION: Type** N/A **Amount** N/A

g. **WATER ZONES** (depth):

Top N/A	Bottom	Top	Bottom
Top	Bottom	Top	Bottom
Top	Bottom	Top	Bottom

7. CASING:

Depth		Diameter	Thickness/ Weight	Material
Top 0	Bottom 20.0 Ft.	2"	Sch40	PVC
Top	Bottom Ft.			
Top	Bottom Ft.			

8. GROUT:

Depth		Material	Method
Top 0	Bottom 16.0 Ft.	Portland	Tremie
Top 16.0	Bottom 18.0 Ft.	Bentonite	Tremie
Top	Bottom Ft.		

9. SCREEN:

Depth		Diameter	Slot Size	Material
Top 20.0	Bottom 30.0 Ft.	2 in.	.010 in.	PVC
Top	Bottom Ft.	in.	in.	
Top	Bottom Ft.	in.	in.	

10. SAND/GRAVEL PACK:

Depth		Size	Material
Top 18.0	Bottom 30.0 Ft.	#1	Sand
Top	Bottom Ft.		
Top	Bottom Ft.		

11. DRILLING LOG

Top	Bottom	Formation Description
0	4.0'	Brown, moist SILT & CLAY; trace fine sand
12.0	16.0	Brown, wet, fine/medium SAND; some silt
20.0	24.0	Brown, wet, medium/coarse SAND; trace silt

12. REMARKS:

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

Kevin White 8-9-10
SIGNATURE OF CERTIFIED WELL CONTRACTOR DATE

Kevin White
PRINTED NAME OF PERSON CONSTRUCTING THE WELL

Submit within 30 days of completion to: Division of Water Quality - Information Processing, 1617 Mail Service Center, Raleigh, NC 27699-161, Phone : (919) 807-6300

Form GW-1b
Rev. 2/09

NON RESIDENTIAL WELL CONSTRUCTION RECORD

North Carolina Department of Environment and Natural Resources- Division of Water Quality

WELL CONTRACTOR CERTIFICATION # 2973

1. WELL CONTRACTOR:

Kevin White
Well Contractor (Individual) Name

Parratt-Wolff, Inc.
Well Contractor Company Name

501 Millstone Drive
Street Address

Hillsborough NC 27278
City or Town State Zip Code

(919) 644-2814
Area code Phone number

2. WELL INFORMATION:

WELL CONSTRUCTION PERMIT#

OTHER ASSOCIATED PERMIT#(if applicable)

SITE WELL ID #(if applicable) MW-7

3. WELL USE (Check One Box) Monitoring ☑ Municipal/Public ☐
Industrial/Commercial ☐ Agricultural ☐ Recovery ☐ Injection ☐
Irrigation ☐ Other ☐ (list use)

DATE DRILLED 7/20/10

4. WELL LOCATION:

1100 East Preston Street
(Street Name, Numbers, Community, Subdivision, Lot No., Parcel, Zip Code)

CITY: Selma COUNTY Johnston

TOPOGRAPHIC / LAND SETTING: (check appropriate box)
☐ Slope ☐ Valley ☑ Flat ☐ Ridge ☐ Other

LATITUDE 35 ° 31 ' 576.0000 " DMS **OR** 3x.xxxxxxxxx DD

LONGITUDE 78 ° 17 ' 2.0000 " DMS **OR** 7x.xxxxxxxxx DD

Latitude/longitude source: ☐ GPS ☑ Topographic map
(location of well must be shown on a USGS topo map andattached to this form if not using GPS)

5. FACILITY (Name of the business where the well is located.)

Johnston County Industries
Facility Name Facility ID# (if applicable)

1100 East Preston Street
Street Address

Selma NC 27576
City or Town State Zip Code

Contact Name

Mailing Address

City or Town State Zip Code

( )
Area code Phone number

6. WELL DETAILS:

a. **TOTAL DEPTH:** 30.0'

b. **DOES WELL REPLACE EXISTING WELL?** YES ☑ NO ☐

c. **WATER LEVEL** Below Top of Casing: 10.0 FT.
(Use "+" if Above Top of Casing)

d. **TOP OF CASING IS** 0 FT. Above Land Surface*
*Top of casing terminated at/or below land surface may require a variance in accordance with 15A NCAC 2C .0118.

e. **YIELD (gpm):** N/A **METHOD OF TEST** N/A

f. **DISINFECTION: Type** N/A **Amount** N/A

g. **WATER ZONES** (depth):

Top N/A	Bottom	Top	Bottom
Top	Bottom	Top	Bottom
Top	Bottom	Top	Bottom

7. CASING:

Depth		Diameter	Thickness/ Weight	Material
Top 0	Bottom 20.0 Ft.	2"	Sch40	PVC
Top	Bottom Ft.			
Top	Bottom Ft.			

8. GROUT:

Depth		Material	Method
Top 0	Bottom 16.0 Ft.	Portland	Tremie
Top 16.0	Bottom 18.0 Ft.	Bentonite	Tremie
Top	Bottom Ft.		

9. SCREEN:

Depth		Diameter	Slot Size	Material
Top 20.0	Bottom 30.0 Ft.	2 in.	.010 in.	PVC
Top	Bottom Ft.	in.	in.	
Top	Bottom Ft.	in.	in.	

10. SAND/GRAVEL PACK:

Depth		Size	Material
Top 18.0	Bottom 30.0 Ft.	#1	Sand
Top	Bottom Ft.		
Top	Bottom Ft.		

11. DRILLING LOG

Top	Bottom	Formation Description
0	4.0'	Brown, moist SILT & CLAY
12.0	16.0	Brown, wet, fine/medium SAND; trace silt

12. REMARKS:

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

SIGNATURE OF CERTIFIED WELL CONTRACTOR 8-9-10 DATE

Kevin White
PRINTED NAME OF PERSON CONSTRUCTING THE WELL

Submit within 30 days of completion to: Division of Water Quality - Information Processing, 1617 Mail Service Center, Raleigh, NC 27699-161, Phone : (919) 807-6300

Form GW-1b
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NON RESIDENTIAL WELL CONSTRUCTION RECORD

North Carolina Department of Environment and Natural Resources- Division of Water Quality

WELL CONTRACTOR CERTIFICATION # 2973

1. WELL CONTRACTOR:

Kevin White
Well Contractor (Individual) Name

Parratt-Wolff, Inc.
Well Contractor Company Name

501 Millstone Drive
Street Address

Hillsborough NC 27278
City or Town State Zip Code

(919) 644-2814
Area code Phone number

2. WELL INFORMATION:

WELL CONSTRUCTION PERMIT#

OTHER ASSOCIATED PERMIT#(if applicable)

SITE WELL ID #(if applicable) MW-8

3. WELL USE (Check One Box) Monitoring ☑ Municipal/Public ☐
Industrial/Commercial ☐ Agricultural ☐ Recovery ☐ Injection ☐
Irrigation☐ Other ☐ (list use)

DATE DRILLED 7/15/10

4. WELL LOCATION:

1100 East Preston Street
(Street Name, Numbers, Community, Subdivision, Lot No., Parcel, Zip Code)

CITY: Selma COUNTY Johnston

TOPOGRAPHIC / LAND SETTING: (check appropriate box)
☐Slope ☐Valley ☑Flat ☐Ridge ☐Other

LATITUDE 35 ° 31 ' 576.0000 " DMS **OR** 3x.xxxxxxxxx DD

LONGITUDE 78 ° 17 ' 2.0000 " DMS **OR** 7x.xxxxxxxxx DD

Latitude/longitude source: ☐GPS ☑Topographic map
(location of well must be shown on a USGS topo map andattached to this form if not using GPS)

5. FACILITY (Name of the business where the well is located.)

Johnston County Industries
Facility Name Facility ID# (if applicable)

1100 East Preston Street
Street Address

Selma NC 27576
City or Town State Zip Code

Contact Name

Mailing Address

City or Town State Zip Code

( )
Area code Phone number

6. WELL DETAILS:

a. **TOTAL DEPTH:** 30.0'

b. **DOES WELL REPLACE EXISTING WELL?** YES ☑ NO ☐

c. **WATER LEVEL** Below Top of Casing: 10.0 FT.
(Use "+" if Above Top of Casing)

d. **TOP OF CASING IS** 0 FT. Above Land Surface*
*Top of casing terminated at/or below land surface may require a variance in accordance with 15A NCAC 2C .0118.

e. **YIELD (gpm):** N/A **METHOD OF TEST** N/A

f. **DISINFECTION: Type** N/A **Amount** N/A

g. **WATER ZONES** (depth):
Top N/A Bottom Top Bottom
Top Bottom Top Bottom
Top Bottom Top Bottom

7. CASING:	Depth		Diameter	Thickness/ Weight	Material
Top 0	Bottom 20.0	Ft.	2"	Sch40	PVC
Top	Bottom	Ft.			
Top	Bottom	Ft.			

8. GROUT:	Depth		Material	Method
Top 0	Bottom 16.0	Ft.	Portland	Tremie
Top 16.0	Bottom 18.0	Ft.	Bentonite	Tremie
Top	Bottom	Ft.		

9. SCREEN:	Depth		Diameter	Slot Size	Material
Top 20.0	Bottom 30.0	Ft.	2 in.	.010 in.	PVC
Top	Bottom	Ft.	in.	in.	
Top	Bottom	Ft.	in.	in.	

10. SAND/GRAVEL PACK:	Depth		Size	Material
Top 18.0	Bottom 30.0	Ft.	#1	Sand
Top	Bottom	Ft.		
Top	Bottom	Ft.		

11. DRILLING LOG

Top	Bottom	Formation Description
12.0	16.0'	Brown, wet, fine/medium SAND; trace silt
16.0	20.0	Brown, wet, medium/coarse SAND; some fine gravel

12. REMARKS:

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

SIGNATURE OF CERTIFIED WELL CONTRACTOR 8-9-10 DATE

Kevin White
PRINTED NAME OF PERSON CONSTRUCTING THE WELL

Submit within 30 days of completion to: Division of Water Quality - Information Processing, 1617 Mail Service Center, Raleigh, NC 27699-161, Phone : (919) 807-6300

Form GW-1b
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NON RESIDENTIAL WELL CONSTRUCTION RECORD

North Carolina Department of Environment and Natural Resources- Division of Water Quality

WELL CONTRACTOR CERTIFICATION # 2973

1. WELL CONTRACTOR:

Kevin White
Well Contractor (Individual) Name

Parratt-Wolff, Inc.
Well Contractor Company Name

501 Millstone Drive
Street Address

Hillsborough NC 27278
City or Town State Zip Code

(919) 644-2814
Area code Phone number

2. WELL INFORMATION:

WELL CONSTRUCTION PERMIT#

OTHER ASSOCIATED PERMIT#(if applicable)

SITE WELL ID #(if applicable) MW-9

3. WELL USE (Check One Box) Monitoring ☑ Municipal/Public ☐
Industrial/Commercial ☐ Agricultural ☐ Recovery ☐ Injection ☐
Irrigation ☐ Other ☐ (list use)

DATE DRILLED 7/15/10

4. WELL LOCATION:

1100 East Preston Street
(Street Name, Numbers, Community, Subdivision, Lot No., Parcel, Zip Code)

CITY: Selma COUNTY Johnston

TOPOGRAPHIC / LAND SETTING: (check appropriate box)
☐ Slope ☐ Valley ☑ Flat ☐ Ridge ☐ Other

LATITUDE 35 ° 31 ' 576.0000 " DMS **OR** 3x.xxxxxxxxx DD

LONGITUDE 78 ° 17 ' 2.0000 " DMS **OR** 7x.xxxxxxxxx DD

Latitude/longitude source: ☐ GPS ☑ Topographic map
(location of well must be shown on a USGS topo map andattached to this form if not using GPS)

5. FACILITY (Name of the business where the well is located.)

Johnston County Industries
Facility Name Facility ID# (if applicable)

1100 East Preston Street
Street Address

Selma NC 27576
City or Town State Zip Code

Contact Name

Mailing Address

City or Town State Zip Code

( )
Area code Phone number

6. WELL DETAILS:

a. **TOTAL DEPTH:** 38.0'

b. **DOES WELL REPLACE EXISTING WELL?** YES ☑ NO ☐

c. **WATER LEVEL** Below Top of Casing: 10.0 FT.
(Use "+" if Above Top of Casing)

d. **TOP OF CASING IS** 0 FT. Above Land Surface*
*Top of casing terminated at/or below land surface may require a variance in accordance with 15A NCAC 2C .0118.

e. **YIELD (gpm):** N/A **METHOD OF TEST** N/A

f. **DISINFECTION: Type** N/A **Amount** N/A

g. **WATER ZONES** (depth):

Top N/A	Bottom	Top	Bottom
Top	Bottom	Top	Bottom
Top	Bottom	Top	Bottom

7. CASING:

Depth		Diameter	Thickness/ Weight	Material
Top 0	Bottom 28.0 Ft.	2"	Sch40	PVC
Top	Bottom Ft.			
Top	Bottom Ft.			

8. GROUT:

Depth		Material	Method
Top 0	Bottom 24.0 Ft.	Portland	Tremie
Top 24.0	Bottom 26.0 Ft.	Bentonite	Tremie
Top	Bottom Ft.		

9. SCREEN:

Depth		Diameter	Slot Size	Material
Top 28.0	Bottom 38.0 Ft.	2 in.	.010 in.	PVC
Top	Bottom Ft.	in.	in.	
Top	Bottom Ft.	in.	in.	

10. SAND/GRAVEL PACK:

Depth		Size	Material
Top 26.0	Bottom 38.0 Ft.	#1	Sand
Top	Bottom Ft.		
Top	Bottom Ft.		

11. DRILLING LOG

Top	Bottom	Formation Description
0	4.0'	Gray, moist, stiff, dense CLAY;
		some fine sand; little silt
12.0	16.0	Gray, wet, dense CLAY & SILT;
		some fine sand
16.0	20.0	Gray/light brown, wet, loose,
		coarse SAND; some gravel
36.0	40.0	Gray, moist, stiff, dense CLAY;
		trace silt

12. REMARKS:

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

SIGNATURE OF CERTIFIED WELL CONTRACTOR 8-9-10 DATE

Kevin White
PRINTED NAME OF PERSON CONSTRUCTING THE WELL

Submit within 30 days of completion to: Division of Water Quality - Information Processing, 1617 Mail Service Center, Raleigh, NC 27699-161, Phone : (919) 807-6300

Form GW-1b
Rev. 2/09

NON RESIDENTIAL WELL CONSTRUCTION RECORD

North Carolina Department of Environment and Natural Resources- Division of Water Quality

WELL CONTRACTOR CERTIFICATION # 2973

1. WELL CONTRACTOR:

Kevin White
Well Contractor (Individual) Name

Parratt-Wolff, Inc.
Well Contractor Company Name

501 Millstone Drive
Street Address

Hillsborough NC 27278
City or Town State Zip Code

(919) 644-2814
Area code Phone number

2. WELL INFORMATION:

WELL CONSTRUCTION PERMIT#

OTHER ASSOCIATED PERMIT#(if applicable)

SITE WELL ID #(if applicable) MW-11

3. WELL USE (Check One Box) Monitoring ☑ Municipal/Public ☐
Industrial/Commercial ☐ Agricultural ☐ Recovery ☐ Injection ☐
Irrigation ☐ Other ☐ (list use)

DATE DRILLED 7/16/10

4. WELL LOCATION:

1100 East Preston Street
(Street Name, Numbers, Community, Subdivision, Lot No., Parcel, Zip Code)

CITY: Selma COUNTY Johnston

TOPOGRAPHIC / LAND SETTING: (check appropriate box)
☐ Slope ☐ Valley ☑ Flat ☐ Ridge ☐ Other

LATITUDE 35 ° 31 ' 576.0000 " DMS **OR** 3x.xxxxxxxxx DD

LONGITUDE 78 ° 17 ' 2.0000 " DMS **OR** 7x.xxxxxxxxx DD

Latitude/longitude source: ☐ GPS ☑ Topographic map
(location of well must be shown on a USGS topo map andattached to this form if not using GPS)

5. FACILITY (Name of the business where the well is located.)

Johnston County Industries
Facility Name Facility ID# (if applicable)

1100 East Preston Street
Street Address

Selma NC 27576
City or Town State Zip Code

Contact Name

Mailing Address

City or Town State Zip Code

( )
Area code Phone number

6. WELL DETAILS:

a. **TOTAL DEPTH:** 34.0'

b. **DOES WELL REPLACE EXISTING WELL?** YES ☑ NO ☐

c. **WATER LEVEL** Below Top of Casing: 11.0 FT.
(Use "+" if Above Top of Casing)

d. **TOP OF CASING IS** 0 FT. Above Land Surface*
*Top of casing terminated at/or below land surface may require a variance in accordance with 15A NCAC 2C .0118.

e. **YIELD (gpm):** N/A **METHOD OF TEST** N/A

f. **DISINFECTION: Type** N/A **Amount** N/A

g. **WATER ZONES** (depth):

Top N/A	Bottom	Top	Bottom
Top	Bottom	Top	Bottom
Top	Bottom	Top	Bottom

7. CASING:

Depth		Diameter	Thickness/ Weight	Material
Top 0	Bottom 24.0 Ft.	2"	Sch40	PVC
Top	Bottom Ft.			
Top	Bottom Ft.			

8. GROUT:

Depth		Material	Method
Top 0	Bottom 13.0 Ft.	Portland	Tremie
Top 13.0	Bottom 18.0 Ft.	Bentonite	Tremie
Top 21.0	Bottom 22.0 Ft.	Bentonite	Tremie

9. SCREEN:

Depth		Diameter	Slot Size	Material
Top 24.0	Bottom 34.0 Ft.	2 in.	.010 in.	PVC
Top	Bottom Ft.	in.	in.	
Top	Bottom Ft.	in.	in.	

10. SAND/GRAVEL PACK:

Depth		Size	Material
Top 18.0	Bottom 21.0 Ft.	#1	Sand
Top 22.0	Bottom 34.0 Ft.		
Top	Bottom Ft.		

11. DRILLING LOG

Top	Bottom	Formation Description
0	4.0'	Gray, moist, SILT & CLAY
8.0	12.0	Brown, moist, fine/medium SAND
12.0	16.0	Brown, wet, fine/medium SAND
20.0	24.0	Brown, wet, medium/coarse SAND; some fine gravel

12. REMARKS:

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

SIGNATURE OF CERTIFIED WELL CONTRACTOR — DATE 8-9-10

Kevin White
PRINTED NAME OF PERSON CONSTRUCTING THE WELL

Submit within 30 days of completion to: Division of Water Quality - Information Processing, 1617 Mail Service Center, Raleigh, NC 27699-161, Phone : (919) 807-6300

Form GW-1b
Rev. 2/09

NON RESIDENTIAL WELL CONSTRUCTION RECORD

North Carolina Department of Environment and Natural Resources- Division of Water Quality

WELL CONTRACTOR CERTIFICATION # 2402

1. WELL CONTRACTOR:

MIKE MCCONAHEY
Well Contractor (Individual) Name

GEOLOGIC EXPLORATION, INC
Well Contractor Company Name

176 COMMERCE BLVD
Street Address

STATESVILLE | NC | 28625
City or Town | State | Zip Code

(704) 872-7686
Area code Phone number

2. WELL INFORMATION:

WELL CONSTRUCTION PERMIT# N/A

OTHER ASSOCIATED PERMIT#(if applicable)

SITE WELL ID #(if applicable) MW-14

3. WELL USE (Check One Box) Monitoring ☑ Municipal/Public ☐
Industrial/Commercial ☐ Agricultural ☐ Recovery ☐ Injection ☐
Irrigation☐ Other ☐ (list use)

DATE DRILLED 06/09/11 - 06/10/11

4. WELL LOCATION:

1100 EAST PRESTON STREET 27576
(Street Name, Numbers, Community, Subdivision, Lot No., Parcel, Zip Code)

CITY: SELMA COUNTY JOHNSTON

TOPOGRAPHIC / LAND SETTING: (check appropriate box)
☐Slope ☐Valley ☐Flat ☐Ridge ☐Other

LATITUDE ___°___'___" DMS **OR** ___ DD

LONGITUDE ___°___'___" DMS **OR** ___ DD

Latitude/longitude source: ☐GPS ☐Topographic map
(location of well must be shown on a USGS topo map andattached to this form if not using GPS)

5. FACILITY (Name of the business where the well is located.)

FMR EATON FACILITY | N/A
Facility Name | Facility ID# (if applicable)

1100 EAST PRESTON STREET
Street Address

SELMA | NC | 27576
City or Town | State | Zip Code

EATON CORPORATION
Contact Name

1111 SUPERIOR AVENUE
Mailing Address

CLEVELAND | OH | 44114
City or Town | State | Zip Code

(_____) _____
Area code Phone number

6. WELL DETAILS:

a. **TOTAL DEPTH:** 57.0 FEET

b. **DOES WELL REPLACE EXISTING WELL?** YES ☐ NO ☑

c. **WATER LEVEL** Below Top of Casing: 5.0 FT.
(Use "+" if Above Top of Casing)

d. **TOP OF CASING IS** 0.0 FT. Above Land Surface*
*Top of casing terminated at/or below land surface may require a variance in accordance with 15A NCAC 2C .0118.

e. **YIELD (gpm):** N/A **METHOD OF TEST** N/A

f. **DISINFECTION: Type** N/A **Amount** N/A

g. **WATER ZONES** (depth):

Top	Bottom	Top	Bottom
Top	Bottom	Top	Bottom
Top	Bottom	Top	Bottom

7. CASING:

Depth		Diameter	Thickness/ Weight	Material
Top 0.0	Bottom 47.0 Ft.	2 INCH	SCH 40	PVC
Top 0.0	Bottom 37.0 Ft.	6 INCH	SCH 40	PVC
Top	Bottom Ft.			

8. GROUT:

Depth		Material	Method
Top 0.0	Bottom 36.0 Ft.	PORTLAND BENTONITE	SLURRY
Top 0.0	Bottom 37.0 Ft.	PORTLAND BENTONITE	SLURRY
Top	Bottom Ft.		

9. SCREEN:

Depth		Diameter	Slot Size	Material
Top 47.0	Bottom 57.0 Ft.	2.0 in.	.010 in.	PVC
Top	Bottom Ft.	in.	in.	
Top	Bottom Ft.	in.	in.	

10. SAND/GRAVEL PACK:

Depth		Size	Material
Top 44.0	Bottom 57.0 Ft.	20-40	FINE SILICA SAND
Top	Bottom Ft.		
Top	Bottom Ft.		

11. DRILLING LOG

Top	Bottom	Formation Description
0.0	1.0	GRASS/TOPSOIL
1.0	5.0	GRAY SILTY SAND
5.0	30.0	BROWN/ORANGE/TAN SANDY SILT
30.0	31.5	WHITE/TAN SILTY SAND/GRAVEL
31.5	35.0	WHITE/TAN SILTY SAND
35.0	37.0	WHITE/TAN/GRAY SANDY SILT
37.0	57.0	GREEN/GRAY CLAYEY SANDY SILT

12. REMARKS:

BENTONITE SEAL FROM 36.0 TO 44.0 FEET

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

SIGNATURE OF CERTIFIED WELL CONTRACTOR | 06/16/11 DATE

MIKE MCCONAHEY
PRINTED NAME OF PERSON CONSTRUCTING THE WELL

Submit within 30 days of completion to: Division of Water Quality - Information Processing, 1617 Mail Service Center, Raleigh, NC 27699-161, Phone : (919) 807-6300

Form GW-1b
Rev. 2/09

NON RESIDENTIAL WELL CONSTRUCTION RECORD

North Carolina Department of Environment and Natural Resources- Division of Water Quality

WELL CONTRACTOR CERTIFICATION # 2402

1. WELL CONTRACTOR:

MIKE MCCONAHEY
Well Contractor (Individual) Name

GEOLOGIC EXPLORATION, INC
Well Contractor Company Name

176 COMMERCE BLVD
Street Address

STATESVILLE | NC | 28625
City or Town | State | Zip Code

(704) 872-7686
Area code Phone number

2. WELL INFORMATION:

WELL CONSTRUCTION PERMIT# N/A

OTHER ASSOCIATED PERMIT#(if applicable)

SITE WELL ID #(if applicable) MW-15

3. WELL USE (Check One Box) Monitoring ☑ Municipal/Public ☐
Industrial/Commercial ☐ Agricultural ☐ Recovery ☐ Injection ☐
Irrigation ☐ Other ☐ (list use)

DATE DRILLED 05/04/11 - 05/05/11

4. WELL LOCATION:

1100 EAST PRESTON STREET 27576
(Street Name, Numbers, Community, Subdivision, Lot No., Parcel, Zip Code)

CITY: SELMA COUNTY JOHNSTON

TOPOGRAPHIC / LAND SETTING: (check appropriate box)
☐ Slope ☐ Valley ☐ Flat ☐ Ridge ☐ Other

LATITUDE ___°___'___" DMS **OR** ___ DD

LONGITUDE ___°___'___" DMS **OR** ___ DD

Latitude/longitude source: ☐ GPS ☐ Topographic map
(location of well must be shown on a USGS topo map andattached to this form if not using GPS)

5. FACILITY (Name of the business where the well is located.)

FMR EATON FACILITY | N/A
Facility Name | Facility ID# (if applicable)

1100 EAST PRESTON STREET
Street Address

SELMA | NC | 27576
City or Town | State | Zip Code

EATON CORPORATION
Contact Name

1111 SUPERIOR AVENUE
Mailing Address

CLEVELAND | OH | 44114
City or Town | State | Zip Code

( )
Area code Phone number

6. WELL DETAILS:

a. **TOTAL DEPTH:** 56.0 FEET

b. **DOES WELL REPLACE EXISTING WELL?** YES ☐ NO ☑

c. **WATER LEVEL** Below Top of Casing: 2.0 FT.
(Use "+" if Above Top of Casing)

d. **TOP OF CASING IS** 0.0 FT. Above Land Surface*
*Top of casing terminated at/or below land surface may require a variance in accordance with 15A NCAC 2C .0118.

e. **YIELD (gpm):** N/A **METHOD OF TEST** N/A

f. **DISINFECTION: Type** N/A **Amount** N/A

g. **WATER ZONES** (depth):

Top	Bottom	Top	Bottom
Top	Bottom	Top	Bottom
Top	Bottom	Top	Bottom

7. CASING:

Depth		Diameter	Thickness/ Weight	Material
Top 0.0	Bottom 46.0	Ft. 2 INCH	SCH 40	PVC
Top 0.0	Bottom 37.0	Ft. 6 INCH	SCH 40	PVC
Top	Bottom	Ft.		

8. GROUT:

Depth		Material	Method
Top 0.0	Bottom 35.0	Ft. PORTLAND BENTONITE	SLURRY
Top 0.0	Bottom 37.0	Ft. PORTLAND BENTONITE	SLURRY
Top	Bottom	Ft.	

9. SCREEN:

Depth		Diameter	Slot Size	Material
Top 46.0	Bottom 56.0	Ft. 2.0 in.	.010 in.	PVC
Top	Bottom	Ft. in.	in.	
Top	Bottom	Ft. in.	in.	

10. SAND/GRAVEL PACK:

Depth		Size	Material
Top 44.0	Bottom 56.0	Ft. 20-40	FINE SILICA SAND
Top	Bottom	Ft.	
Top	Bottom	Ft.	

11. DRILLING LOG

Top	Bottom	Formation Description
0.0	1.0	GRASS/TOPSOIL
1.0	5.0	ORANGE/TAN SANDY SILT
5.0	12.0	ORANGE/TAN SANDY SILTY CLAY
12.0	32.0	ORANGE SILTY SAND
32.0	37.0	BLUE/GRAY SILTY CLAYEY SAND
37.0	56.0	BLUE/WHITE/GRAY SILTY SAND

12. REMARKS:

BENTONITE SEAL FROM 35.0 TO 44.0 FEET

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

SIGNATURE OF CERTIFIED WELL CONTRACTOR | 05/10/11 DATE

MIKE MCCONAHEY
PRINTED NAME OF PERSON CONSTRUCTING THE WELL

Submit within 30 days of completion to: Division of Water Quality - Information Processing, 1617 Mail Service Center, Raleigh, NC 27699-161, Phone : (919) 807-6300

Form GW-1b
Rev. 2/09

APPENDIX B

UIC PERMIT APPLICATION ADDITIONAL INFORMATION REQUESTS SUBMITTALS

Solutions-IES
Industrial & Environmental Services

1101 Nowell Road ■ Raleigh, NC 27607
(919) 873-1060 ■ Fax (919) 873-1074
www.solutions-ies.com

August 23, 2013

Mr. Michael Rogers
NCDENR Division of Water Quality
1636 Mail Service Center
Raleigh, NC 27699-1636

Re: Revised Figure 5 for UIC Permit Application WI0500657
Former Eaton Selma Facility (REC Program ID NONCD 0002853)
1100 East Preston Street
Selma, North Carolina, 27576
Solutions-IES Project No. 2013.0014.EATN

Dear Mr. Rogers:

Solutions-IES, Inc. (Solutions-IES), under contract with Eaton Corporation (Eaton), is submitting two copies of revised Figure 5 for the UIC permit application to implement the selected remedial action for groundwater at the former Eaton facility in Selma, NC. The revised figure includes the injection zone boundary on the cross section.

If you have any questions or need additional information, please feel free to contact me at (919) 873-1060 or jovermyer@solutions-ies.com.

Yours truly,

Solutions-IES

Jody Overmyer, P.E.
Project Manager

M. Tony Lieberman, RSM
Senior Consultant

Attachment: Figure 5 – Estimated Extent of PCE in Groundwater

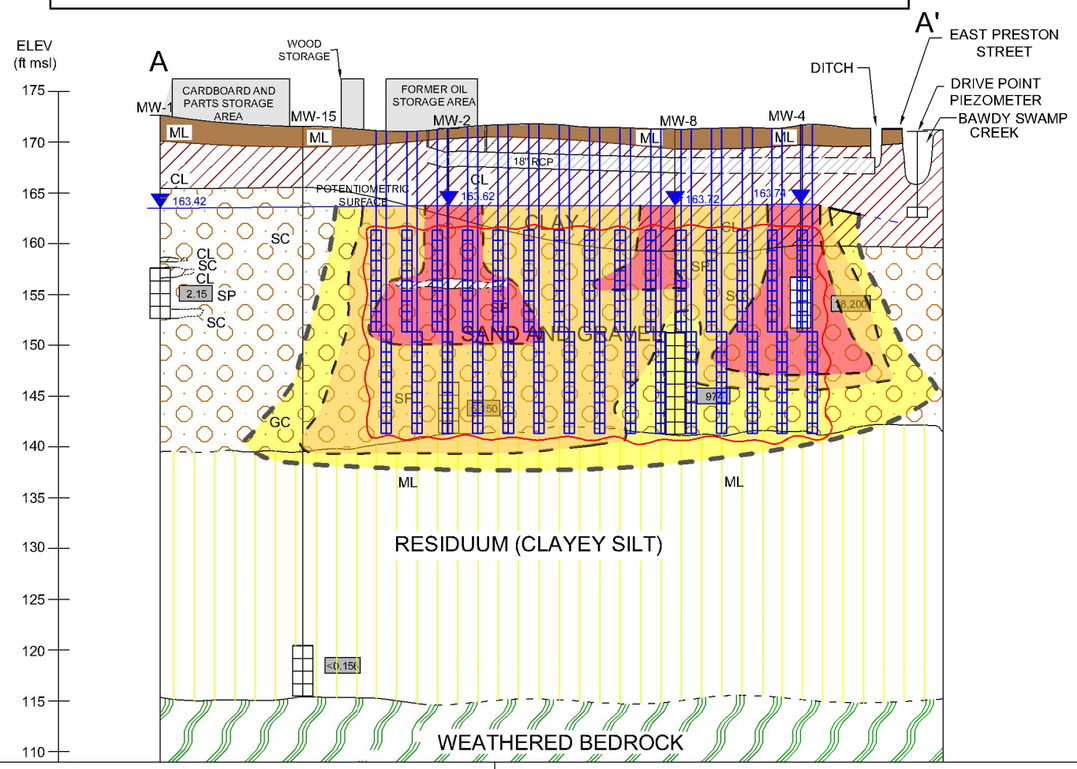
PROJECT NUMBER 2013.0014.EATON | DRAFTER KTS | CHECKED BY JLO | PROJECT MANAGER JLO | DATE 6/25/2013 | FILE GW RA UIC Permit.dwg

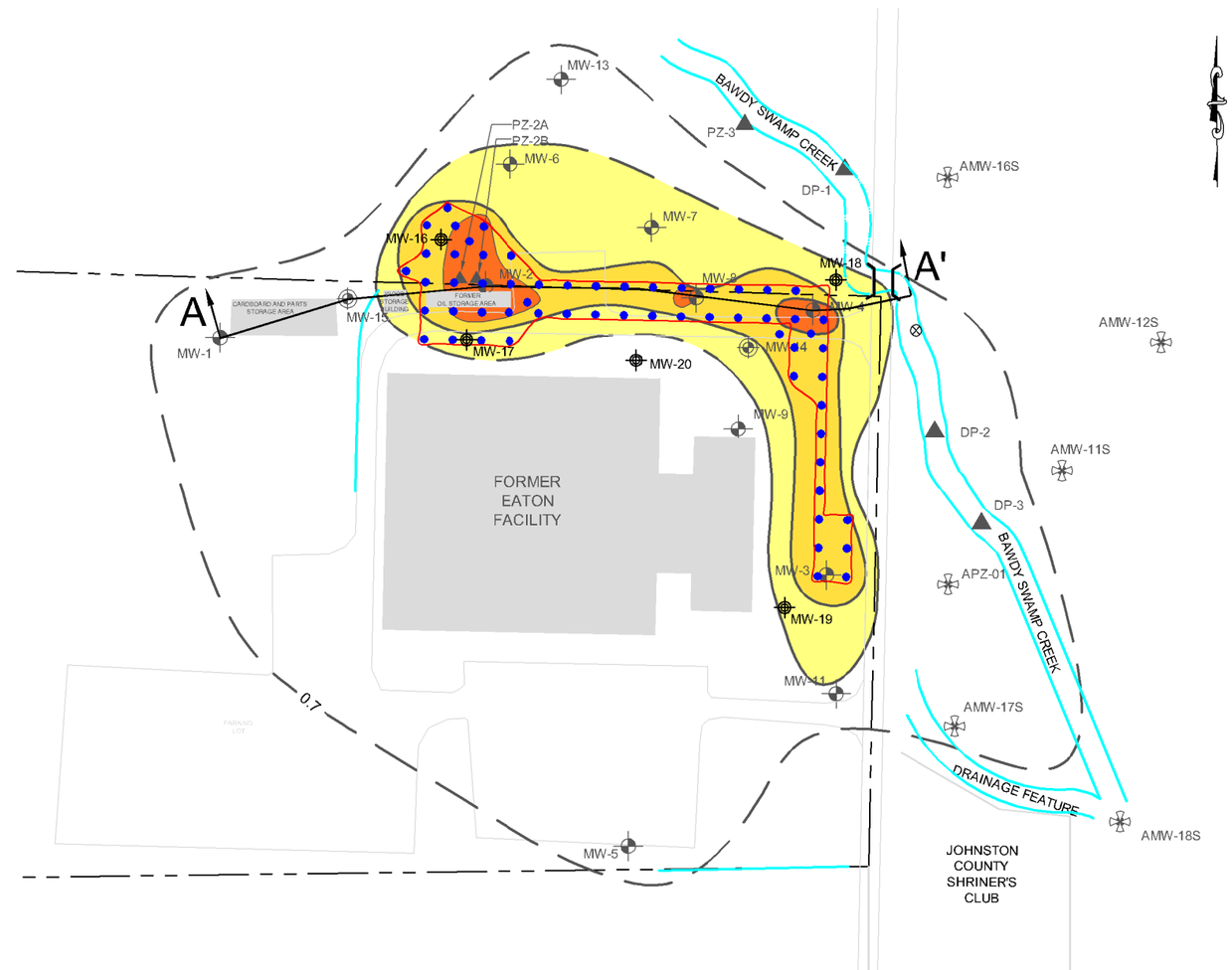
LEGEND

- PROPERTY BOUNDARY
- SHALLOW MONITORING WELL
- DEEP MONITORING WELL
- PROPOSED MONITORING WELL
- MONITORING WELL (EMES)
- PIEZOMETER
- SEDIMENT AND SURFACE WATER SAMPLE LOCATION
- 163.42 GROUNDWATER ELEVATION (FT MSL)
- STATIC WATER LEVEL JUNE 27, 2011
- 1.53 MONITOR WELL SCREENED INTERVAL AND PCE CONCENTRATION (µg/L)
- PROPOSED INJECTION WELL SCREENED INTERVAL
- DRAINAGE FEATURE
- CULVERT
- INJECTION ZONE
- PROPOSED INJECTION WELL

ISOCONCENTRATION CONTOURS OF PCE IN GROUNDWATER:

- ≥ 10^4 µg/L
- ≥ 10^3 µg/L
- ≥ 10^2 µg/L
- ≥ 0.7 µg/L





VERTICAL SCALE

0 15 30

SCALE IN FEET

HORIZONTAL SCALE

0 150 300

SCALE IN FEET

0 150 300

SCALE IN FEET

Solutions-IES
Industrial & Environmental Services
1101 NOWELL ROAD
RALEIGH, NORTH CAROLINA 27607
TEL.: (919) 873-1060 FAX.: (919) 873-1074

NOTES:
1) BASEMAP OBTAINED FROM JIMMY BARBOUR SURVEYING, PA, APRIL 2008 .
2) WELL LOCATIONS ARE BASED ON SURVEY DATA PROVIDED BY KCI ASSOCIATES OF N.C. JUNE 2008 & JULY 2010.

FORMER EATON FACILITY
1100 EAST PRESTON STREET
SELMA, JOHNSTON COUNTY, NC

ESTIMATED EXTENT OF PCE IN GROUNDWATER

FIGURE: 5

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Industrial & Environmental Services

1101 Nowell Road ■ Raleigh, NC 27607
(919) 873-1060 ■ Fax (919) 873-1074
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September 4, 2013

Mr. Michael Rogers
NCDENR Division of Water Quality
1636 Mail Service Center
Raleigh, NC 27699-1636

Re: Additional Information Request for UIC Permit Application WI0500657
Former Eaton Selma Facility (REC Program ID NONCD 0002853)
1100 East Preston Street
Selma, North Carolina, 27576
Solutions-IES Project No. 2013.0014.EATN

Dear Mr. Rogers:

Solutions-IES, Inc. (Solutions-IES), under contract with Eaton Corporation (Eaton), is responding to your questions/comments received in an email dated August 30, 3013, on the UIC permit application WI0500657 to implement the selected remedial action for groundwater at the former Eaton facility in Selma, NC. Please see our responses to your questions/comments below.

- Would it be possible to move proposed monitoring well MW-17 a few feet south towards the building outside the injection zone?

  Yes, proposed monitoring well MW-17 has been moved south closer to the building and outside of the injection zone. Please find attached revised Figures 3, 4, 5, and 7 to include in the permit application.

- Please provide the proposed number of injection events, days for each injection, and time between injections.

  Solutions-IES plans to inject each injection well one time. However, the injection will be performed in two phases. During each phase, half of the Zone A and half of the Zone B injection wells will be injected. Product injection (CoBupH-Mg and EOS XR) is anticipated to last 4 days in Zone A wells and 2 days in Zone B wells during each phase. Water chase is anticipated to last 3 days in Zone A wells and 3.5 days in Zone B wells during each phase. The first day of each phase will consist of mobilization and setup. Product injection will be performed Monday through Friday during normal business hours. Chase water will be injected overnight and on weekends, as needed. Approximately 3.5 weeks separate the start of each injection phase. The table below summarizes the anticipated project schedule:

Activity	Start Date	End Date
PHASE 1		
Mobilization and Setup	October 21, 2013	October 21, 2013
Product Injection		
Zone A (4 Days)	October 21, 2013	October 25, 2013
Zone B (2 Days)	October 21, 2013	October 23, 2013
Chase Water		
Zone A (3 Days)	October 25, 2013	October 28, 2013
Zone B (3.5 Days)	October 23, 2013	October 27, 2013
PHASE 2		
Mobilization and Setup	November 13, 2013	November 13, 2013
Product Injection		
Zone A (4 Days)	November 13, 2013	November 19, 2013
Zone B (2 Days)	November 13, 2013	November 15, 2013
Chase Water		
Zone A (3 Days)	November 19, 2013	November 22, 2013
Zone B (3.5 Days)	November 15, 2013	November 19, 2013

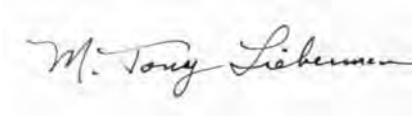
- Do you already have a schematic of the injection well cluster completed? If you do, please provide. However, if you don't already have one, we can get by with the well construction table in the app.

  A schematic of the nested injection wells has not been prepared. However, Section 6 Well Construction Details table (attached) has been updated to reflect the final installation design. We are now including 2 ft of bentonite between the Zone A and Zone B well screens. The bentonite will be bracketed with 6 inches of sand on the top and bottom. Therefore, the Zone B well screens will be from 23 ft bgs to 30 ft bgs. We are also expecting eight of the injection locations to be finished as stickups with anodized steel above grades, and seven of the flush cover manhole concrete pads will be reinforced with rebar and wire.

If you have any questions or need additional information, please feel free to contact me at (919) 873-1060 or jovermyer@solutions-ies.com.

Yours truly,

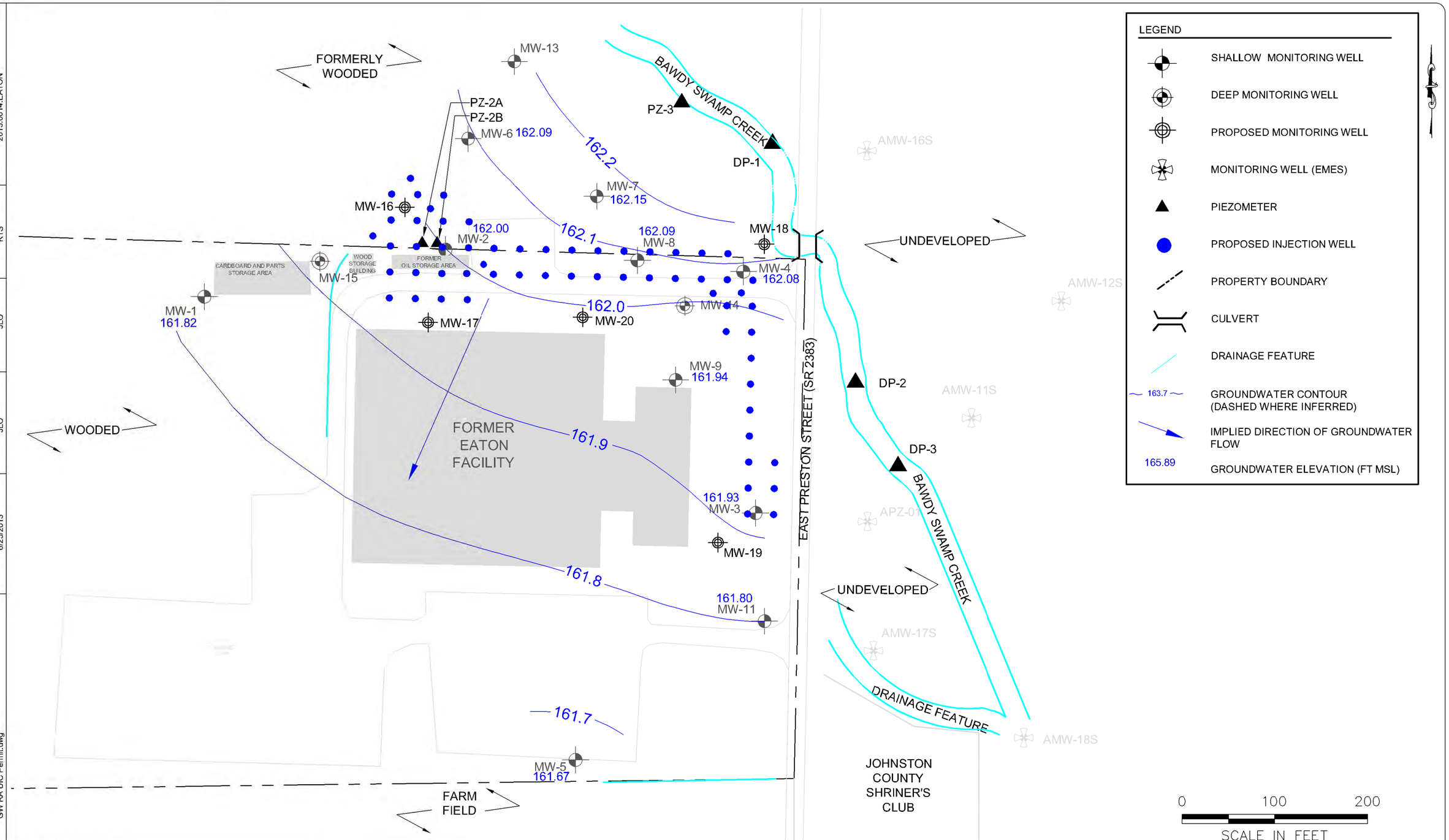
Solutions-IES



Jody Overmyer, P.E.
Project Manager

M. Tony Lieberman, RSM
Senior Consultant

Attachment: Revised Figures 3, 4, 5, and 7
Revised Section 6 Well Construction Details



PROJECT NUMBER 2013.0014.EATON
DRAFTER KTS
CHECKED BY JLO
PROJECT MANAGER JLO
DATE 6/25/2013
FILE GW RA UIC Permit.dwg

Solutions-IES
Industrial & Environmental Services
1101 NOWELL ROAD
RALEIGH, NORTH CAROLINA 27607
TEL.: (919) 873-1060 FAX.: (919) 873-1074

NOTES:
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2) WELL LOCATIONS ARE BASED ON SURVEY DATA PROVIDED BY KCI ASSOCIATES OF N.C. JUNE 2008 & JULY 2010.
3) AMW WELLS NOT USED TO GENERATE GROUNDWATER ELEVATION MAP.

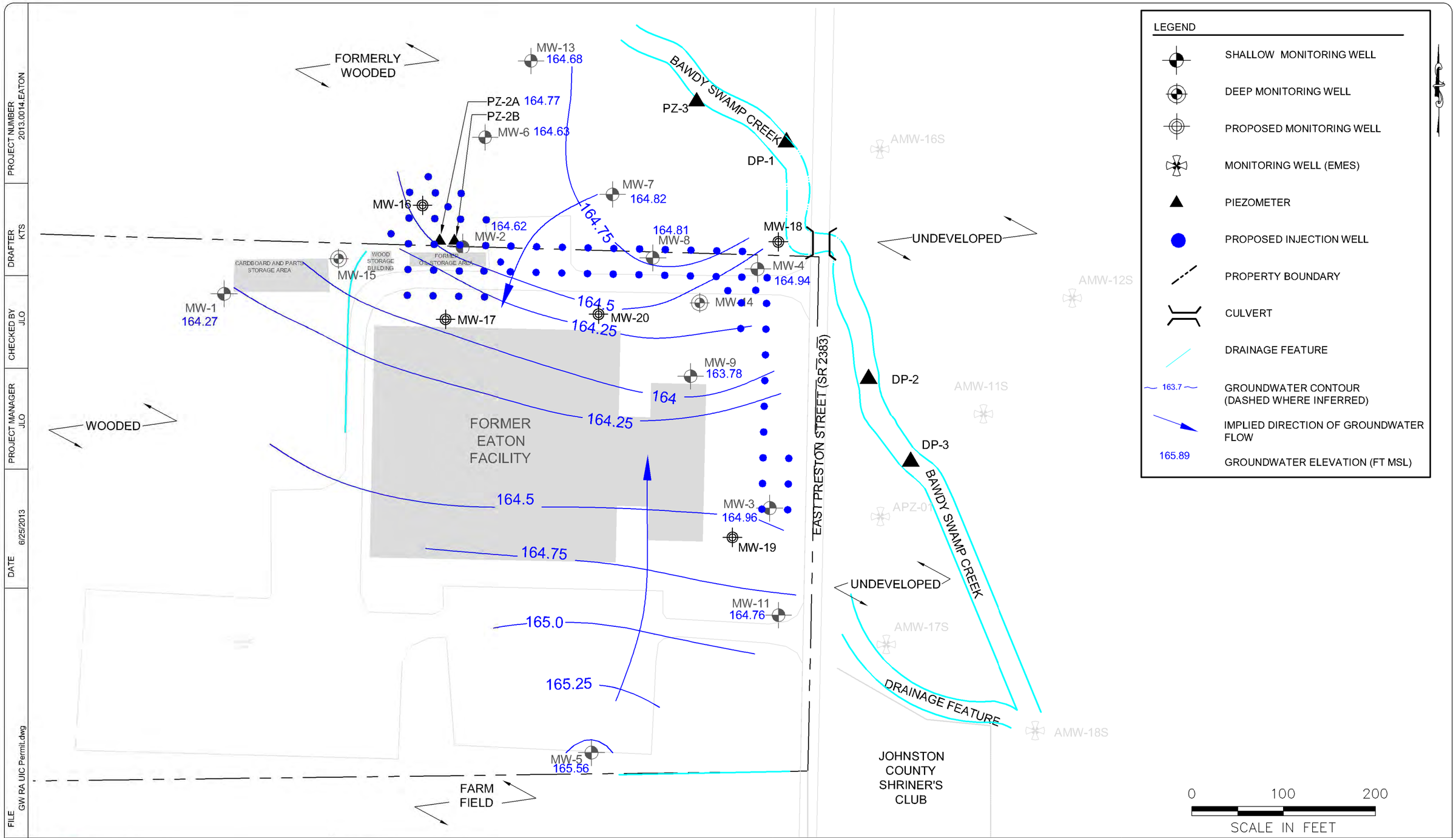
FORMER EATON FACILITY
1100 EAST PRESTON STREET
SELMA, JOHNSTON COUNTY, NC

SHALLOW GROUNDWATER ELEVATION MAP
OCTOBER 2012

FIGURE: 3

J:\Project Files\Eaton Corporation\Eaton Selma\CAD\Current Drawings\Permit File\GW RA UIC Permit.dwg

PROJECT NUMBER 2013.0014.EATON
DRAFTER KTS
CHECKED BY JLO
PROJECT MANAGER JLO
DATE 6/25/2013
FILE GW RA UIC Permit.dwg



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FORMER EATON FACILITY
1100 EAST PRESTON STREET
SELMA, JOHNSTON COUNTY, NC

SHALLOW GROUNDWATER ELEVATION MAP
JANUARY 2013

FIGURE: 4

J:\Project Files\Eaton Corporation\Eaton Selma\CAD\Current Drawings\Permit File\GW RA UIC Permit.dwg

PROJECT NUMBER 2013.0014.EATON | DRAFTER KTS | CHECKED BY JLO | PROJECT MANAGER JLO | DATE 6/25/2013 | FILE GW RA UIC Permit.dwg

LEGEND

- PROPERTY BOUNDARY
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- DEEP MONITORING WELL
- PROPOSED MONITORING WELL
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- CULVERT
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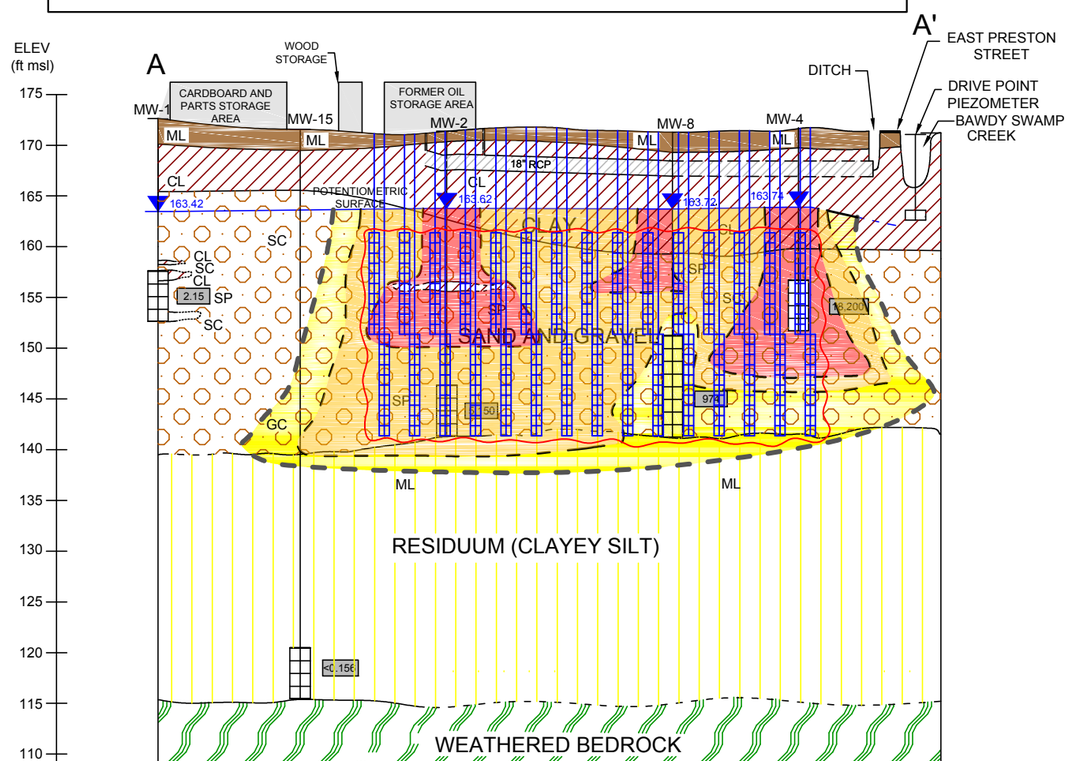

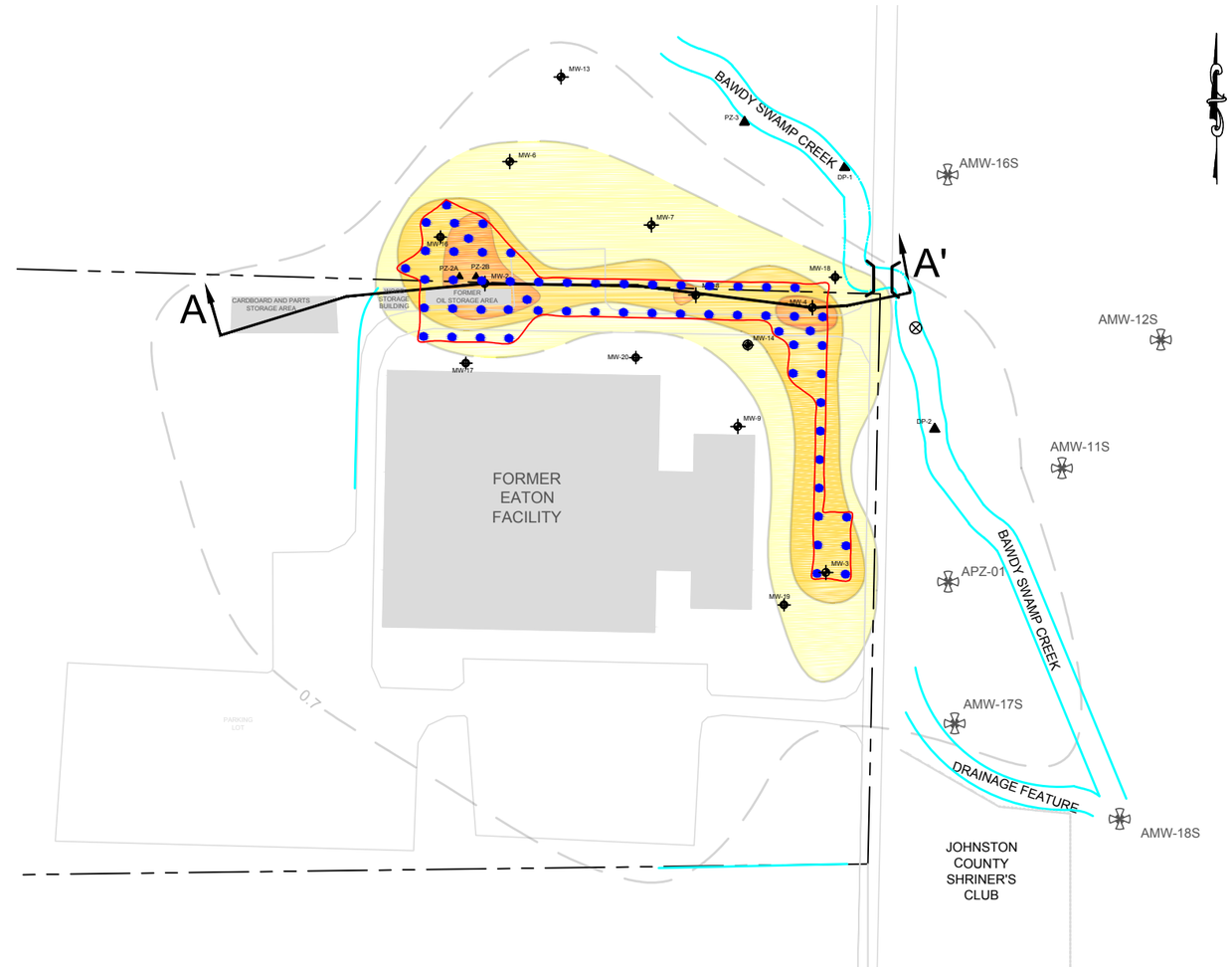

VERTICAL SCALE

0 15 30

SCALE IN FEET

HORIZONTAL SCALE

0 150 300

SCALE IN FEET

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SCALE IN FEET

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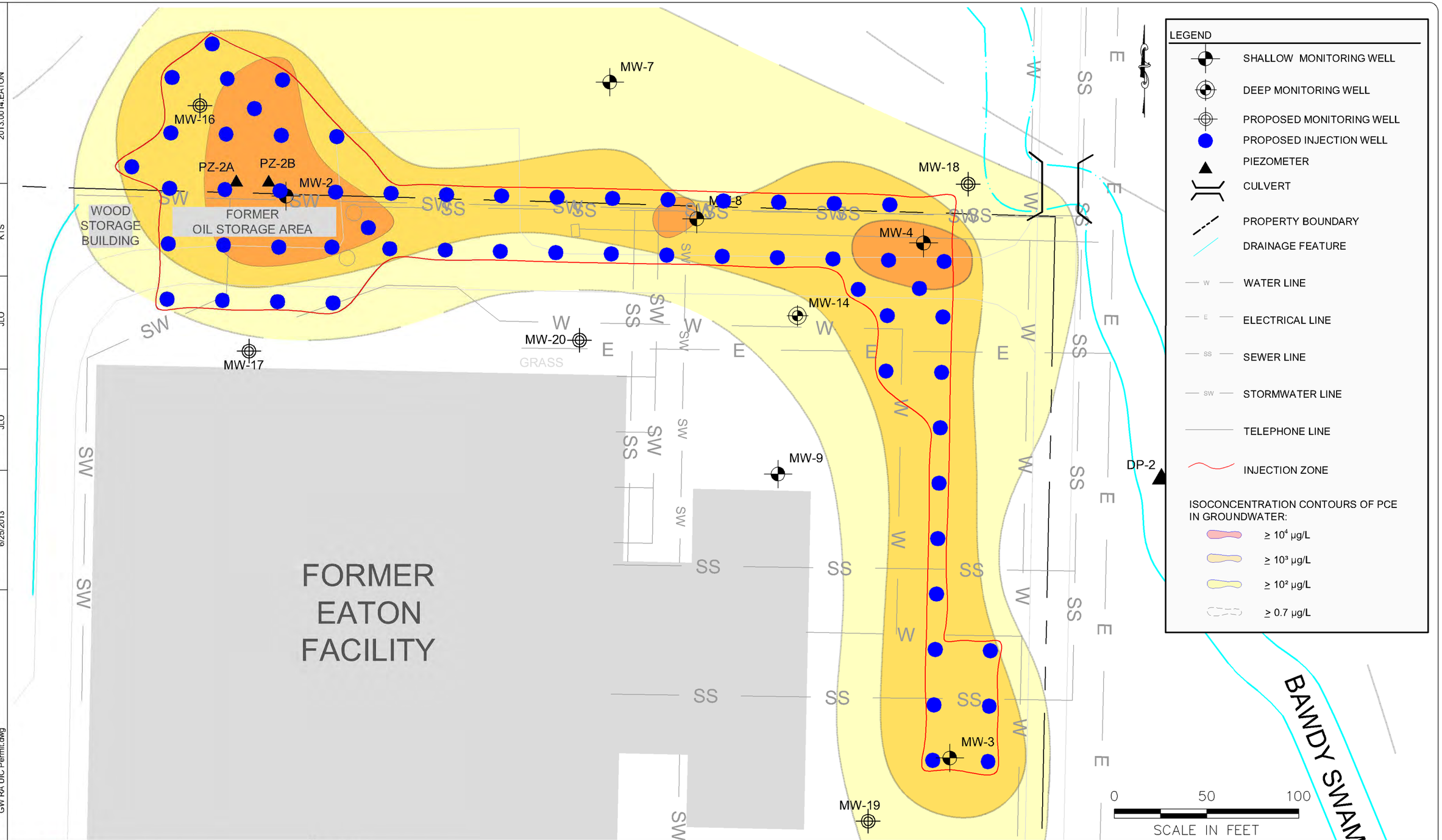
FORMER EATON FACILITY
1100 EAST PRESTON STREET
SELMA, JOHNSTON COUNTY, NC

ESTIMATED EXTENT OF PCE IN GROUNDWATER

FIGURE: 5

PROJECT NUMBER 2013.0014.EATON
DRAFTER KTS
CHECKED BY JLO
PROJECT MANAGER JLO
DATE 6/25/2013
FILE GW RA UIC Permit.dwg



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Industrial & Environmental Services
1101 NOWELL ROAD
RALEIGH, NORTH CAROLINA 27607
TEL.: (919) 873-1060 FAX.: (919) 873-1074

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FORMER EATON FACILITY
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SELMA, JOHNSTON COUNTY, NC

PROPOSED INJECTION WELL LOCATIONS

FIGURE: 7

J:\Project Files\Eaton Corporation\Eaton Selma\CAD\Current Drawings\Permit File\GW RA UIC Permit.dwg

6. **WELL CONSTRUCTION DETAILS** – Submit the following information in tabular or schematic form as appropriate for each item:

(A) number and depth of injection wells;
(B) number and depth of borings if using multi-level or "nested" well systems;
(C) indication whether the injection wells are existing or proposed (see installation date);
(D) depth and type of casing;
(E) depth and type of screen material;
(F) depth and type of grout;
(G) indication whether the injection wells are permanent or temporary "direct push" points; and
(H) plans and specifications of the surface and subsurface construction details.

Well ID	Nested Well Zone	Installation Date	PVC Riser (Casing) (ft bgs)	PVC Screen Interval (ft bgs)	Silica Sand Pack (ft bgs)	Bentonite (ft bgs)	Portland Cement Grout (ft bgs)	Long term use	Finish
IW-1 – IW-8	A	Proposed	2" 0-10	10 – 20	8 – 20	5 – 8	0 – 5	Permanent	Above Grade[1]
	B	Proposed	2" 0-23	23 – 30	20 – 20.5 22.5 – 30	20.5 – 22.5		Permanent	Above Grade[1]
IW-9 – IW-60	A	Proposed	2" 0-10	10 – 20	8 – 20	5 – 8	0 – 5	Permanent	FM-MHC-CP[2]
	B	Proposed	2" 0-23	23 – 30	20 – 20.5 22.5 – 30	20.5 – 22.5		Permanent	FM-MHC-CP[2]

1. Above grades will be covered with anodized steel above grades.
2. FM-MHC-CC = Flush Mount with Manhole Cover on 12 x 12-inch Concrete Pad

APPENDIX C

OCTOBER 2012 PDI ANALYTICAL LABORATORY REPORT

Laboratory Report of Analysis

To: Jody Overmyer
SOLUTIONS-IES
1101 Nowell Rd.
Raleigh, NC 27607

Report Number: **31203610**

Client Project: **2012.0009**

Dear Jody Overmyer,

Enclosed are the results of the analytical services performed under the referenced project for the received samples and associated QC as applicable. The samples are certified to meet the requirements of the National Environmental Laboratory Accreditation Conference Standards. Copies of this report and supporting data will be retained in our files for a period of five years in the event they are required for future reference. All results are intended to be used in their entirety and SGS is not responsible for use of less than the complete report. Any samples submitted to our laboratory will be retained for a maximum of thirty (30) days from the date of this report unless other arrangements are requested.

If there are any questions about the report or services performed during this project, please call Michael D. Page at (910) 350-1903. We will be happy to answer any questions or concerns which you may have.

Thank you for using SGS North America Inc. for your analytical services. We look forward to working with you again on any additional analytical needs.

Sincerely,
SGS North America Inc.

Digitally signed by: Michael Page
Date: 2012.11.28 13:21:59 -05'00'

Michael D. Page
Project Manager
michael.page@sgs.com

Date

Print Date: 11/28/2012

N.C. Certification # 481

ANALYTICAL PERSPECTIVES IS NOW PART OF SGS, THE WORLD'S LEADING INSPECTION, VERIFICATION, TESTING AND CERTIFICATION COMPANY.

Laboratory Qualifiers

Report Definitions

DL	Method, Instrument, or Estimated Detection Limit per Analytical Method
CL	Control Limits for the recovery result of a parameter
LOQ	Reporting Limit
DF	Dilution Factor
RPD	Relative Percent Difference
LCS(D)	Laboratory Control Spike (Duplicate)
MS(D)	Matrix Spike (Duplicate)
MB	Method Blank

Qualifier Definitions

*	Recovery or RPD outside of control limits
B	Analyte was detected in the Lab Method Blank at a level above the LOQ
U	Undetected (Reported as ND or < DL)
V	Recovery is below quality control limit. The data has been validated based on a favorable signal-to-noise and detection limit
A	Amount detected is less than the Lower Method Calibration Limit
J	Estimated Concentration.
O	The recovery of this analyte in the OPR is above the Method QC Limits and the reported concentration in the sample may be biased high
E	Amount detected is greater than the Upper Calibration Limit
S	The amount of analyte present has saturated the detector. This situation results in an underestimation of the affected analyte(s)
Q	Indicates the presence of a quantitative interference. This situation may result in an underestimation of the affected analyte(s)
I	Indicates the presence of a qualitative interference that could cause a false positive or an overestimation of the affected analyte(s)
DPE	Indicates the presence of a peak in the polychlorinated diphenylether channel that could cause a false positive or an overestimation of the affected analyte(s)
TIC	Tentatively Identified Compound
EMPC	Estimated Maximum possible Concentration due to ion ratio failure
ND	Not Detected
K	Result is estimated due to ion ratio failure in High Resolution PCB Analysis
P	RPD > 40% between results of dual columns
D	Spike or surrogate was diluted out in order to achieve a parameter result within instrument calibration range

Samples requiring manual integrations for various congeners and/or standards are marked and dated by the analyst. A code definition is provided below:

M1	Mis-identified peak

Note Results pages that include a value for "Solids (%)" have been adjusted for moisture content.

SGS Analytical Perspectives | 5500 Business Dr. US - 28405 - Wilmington, NC t +1 910 350 1903 f +1 910 350 1557 www.sgs.com
Member of the SGS Group (SGS SA)

Sample Summary

Client Sample ID	Lab Sample ID	Collected	Received	Matrix
MW-8	31203610001	10/30/2012 15:10	11/02/2012 14:00	Water
MW-4	31203610002	10/30/2012 15:45	11/02/2012 14:00	Water
East Trench Bedding-SS	31203610003	10/31/2012 11:40	11/02/2012 14:00	Soil-Solid as dry weight
East Trench Bedding-SW	31203610004	10/31/2012 12:00	11/02/2012 14:00	Soil-Solid as dry weight
West Trench Bedding-SW	31203610005	10/31/2012 13:45	11/02/2012 14:00	Soil-Solid as dry weight
West Trench Water-SW	31203610006	10/31/2012 14:05	11/02/2012 14:00	Water
West Trench Bedding-SS	31203610007	10/31/2012 14:35	11/02/2012 14:00	Soil-Solid as dry weight
IDW-Box 1	31203610008	10/31/2012 15:30	11/02/2012 14:00	Soil-Solid as dry weight
IDW-Box 2	31203610009	10/31/2012 16:00	11/02/2012 14:00	Soil-Solid as dry weight
IDW-Box 3	31203610010	10/31/2012 16:15	11/02/2012 14:00	Soil-Solid as dry weight
SB40-0-1	31203610011	11/01/2012 08:30	11/02/2012 14:00	Soil-Solid as dry weight
SB40-1-2	31203610012	11/01/2012 08:35	11/02/2012 14:00	Soil-Solid as dry weight
SB40-2-3	31203610013	11/01/2012 08:45	11/02/2012 14:00	Soil-Solid as dry weight
SB40-3-4	31203610014	11/01/2012 08:55	11/02/2012 14:00	Soil-Solid as dry weight
SB40-4-5	31203610015	11/01/2012 09:05	11/02/2012 14:00	Soil-Solid as dry weight
SB40-5-6	31203610016	11/01/2012 09:15	11/02/2012 14:00	Soil-Solid as dry weight
SB40-6-7	31203610017	11/01/2012 09:20	11/02/2012 14:00	Soil-Solid as dry weight
SB40-7-8	31203610018	11/01/2012 09:30	11/02/2012 14:00	Soil-Solid as dry weight
SB41-0-1	31203610019	11/01/2012 10:35	11/02/2012 14:00	Soil-Solid as dry weight
SB41-1-2	31203610020	11/01/2012 10:45	11/02/2012 14:00	Soil-Solid as dry weight
SB41-2-3	31203610021	11/01/2012 10:50	11/02/2012 14:00	Soil-Solid as dry weight
SB41-3-4	31203610022	11/01/2012 10:55	11/02/2012 14:00	Soil-Solid as dry weight
SB41-4-5	31203610023	11/01/2012 11:00	11/02/2012 14:00	Soil-Solid as dry weight
SB41-5-6	31203610024	11/01/2012 11:05	11/02/2012 14:00	Soil-Solid as dry weight
SB41-6-7	31203610025	11/01/2012 11:15	11/02/2012 14:00	Soil-Solid as dry weight
SB41-7-8	31203610026	11/01/2012 11:20	11/02/2012 14:00	Soil-Solid as dry weight
SB42-0-1	31203610027	11/01/2012 11:45	11/02/2012 14:00	Soil-Solid as dry weight
SB42-1-2	31203610028	11/01/2012 11:50	11/02/2012 14:00	Soil-Solid as dry weight
SB42-2-3	31203610029	11/01/2012 12:00	11/02/2012 14:00	Soil-Solid as dry weight
SB42-3-4	31203610030	11/01/2012 12:05	11/02/2012 14:00	Soil-Solid as dry weight
SB42-4-5	31203610031	11/01/2012 12:15	11/02/2012 14:00	Soil-Solid as dry weight
SB42-5-6	31203610032	11/01/2012 12:20	11/02/2012 14:00	Soil-Solid as dry weight
SB42-6-7	31203610033	11/01/2012 12:30	11/02/2012 14:00	Soil-Solid as dry weight
SB42-7-8	31203610034	11/01/2012 12:35	11/02/2012 14:00	Soil-Solid as dry weight
SB43-0-1	31203610035	11/01/2012 13:00	11/02/2012 14:00	Soil-Solid as dry weight
SB43-1-2	31203610036	11/01/2012 13:05	11/02/2012 14:00	Soil-Solid as dry weight
SB43-2-3	31203610037	11/01/2012 13:15	11/02/2012 14:00	Soil-Solid as dry weight
SB43-3-4	31203610038	11/01/2012 13:25	11/02/2012 14:00	Soil-Solid as dry weight
SB43-4-5	31203610039	11/01/2012 13:35	11/02/2012 14:00	Soil-Solid as dry weight
SB43-5-6	31203610040	11/01/2012 13:40	11/02/2012 14:00	Soil-Solid as dry weight
SB43-6-7	31203610041	11/01/2012 13:50	11/02/2012 14:00	Soil-Solid as dry weight
SB43-7-8	31203610042	11/01/2012 13:55	11/02/2012 14:00	Soil-Solid as dry weight
SB44-0-1	31203610043	11/01/2012 14:45	11/02/2012 14:00	Soil-Solid as dry weight
SB44-1-2	31203610044	11/01/2012 14:55	11/02/2012 14:00	Soil-Solid as dry weight
SB44-2-3	31203610045	11/01/2012 15:00	11/02/2012 14:00	Soil-Solid as dry weight
SB44-3-4	31203610046	11/01/2012 15:05	11/02/2012 14:00	Soil-Solid as dry weight
SB44-4-5	31203610047	11/01/2012 15:15	11/02/2012 14:00	Soil-Solid as dry weight

Print Date: 11/28/2012

N.C. Certification # 481

Sample Summary

Client Sample ID	Lab Sample ID	Collected	Received	Matrix
SB44-5-6	31203610048	11/01/2012 15:20	11/02/2012 14:00	Soil-Solid as dry weight
SB44-6-7	31203610049	11/01/2012 15:25	11/02/2012 14:00	Soil-Solid as dry weight
SB44-7-8	31203610050	11/01/2012 15:30	11/02/2012 14:00	Soil-Solid as dry weight
SB45-0-1	31203610051	11/01/2012 16:15	11/02/2012 14:00	Soil-Solid as dry weight
SB45-1-2	31203610052	11/01/2012 16:20	11/02/2012 14:00	Soil-Solid as dry weight
SB45-2-3	31203610053	11/01/2012 16:25	11/02/2012 14:00	Soil-Solid as dry weight
SB45-3-4	31203610054	11/01/2012 16:30	11/02/2012 14:00	Soil-Solid as dry weight
SB45-4-5	31203610055	11/01/2012 16:40	11/02/2012 14:00	Soil-Solid as dry weight
SB45-5-6	31203610056	11/01/2012 16:45	11/02/2012 14:00	Soil-Solid as dry weight
SB45-6-7	31203610057	11/01/2012 16:50	11/02/2012 14:00	Soil-Solid as dry weight
SB45-7-8	31203610058	11/01/2012 16:55	11/02/2012 14:00	Soil-Solid as dry weight
East Trench Bedding-SS (TCLP)	31203610059	10/31/2012 11:40	11/05/2012 14:00	Soil-Solid as dry weight
East Trench Bedding-SW (TCLP)	31203610060	10/31/2012 12:00	11/05/2012 14:00	Soil-Solid as dry weight
West Trench Bedding-SW (TCLP)	31203610061	10/31/2012 13:45	11/05/2012 14:00	Soil-Solid as dry weight
West Trench Bedding-SS (TCLP)	31203610062	10/31/2012 14:35	11/05/2012 14:00	Soil-Solid as dry weight
IDW-Box 1 (TCLP)	31203610063	10/31/2012 15:30	11/05/2012 14:00	Soil-Solid as dry weight
IDW-Box 2 (TCLP)	31203610064	10/31/2012 16:00	11/05/2012 14:00	Soil-Solid as dry weight
IDW-Box 3 (TCLP)	31203610065	10/31/2012 16:15	11/05/2012 14:00	Soil-Solid as dry weight

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Case Narrative

VMX2732 [VXX4321]

8260 - The method blank associated with batch VMS2732 has a reported concentration for Methylene Chloride that is below the LOQ. This analyte has been J flagged on the data.

SB40-4-5

E - Results over Calibration Range

8260 - This sample is reported with 'E' flags. The supplied methanol vial was screened and was BQL for all analytes. The supplied vial labels matched upon an internal investigation.

Detectable Results Summary

Client Sample ID: **MW-8**
Lab Sample ID: 31203610001-B
SW-846 8260B

Parameter	Result	Units	
1,1,1-Trichloroethane	45.9	ug/L	
1,1-Dichloroethane	5.15	ug/L	
1,1-Dichloroethene	128	ug/L	
1,2-Dichlorobenzene	0.430	ug/L	J
Acetone	15.1	ug/L	J
Methylene chloride	0.380	ug/L	J
Tetrachloroethene	874	ug/L	
Trichloroethene	58.2	ug/L	
cis-1,2-Dichloroethene	1.72	ug/L	

Client Sample ID: **MW-4**
Lab Sample ID: 31203610002-A
SW-846 8260B

Parameter	Result	Units	
1,1,1-Trichloroethane	8940	ug/L	
1,1-Dichloroethane	7.00	ug/L	J
1,1-Dichloroethene	3140	ug/L	
1,2-Dichlorobenzene	15.0	ug/L	J
Acetone	398	ug/L	J
Ethyl Benzene	70.5	ug/L	
Tetrachloroethene	25800	ug/L	
Toluene	35.8	ug/L	
Trichloroethene	3380	ug/L	
Trichlorofluoromethane	124	ug/L	
Xylene (total)	306	ug/L	
m,p-Xylene	246	ug/L	
o-Xylene	60.5	ug/L	

Client Sample ID: **East Trench Bedding-SS**
Lab Sample ID: 31203610003-D
SW-846 8260B

Parameter	Result	Units	
1,1,1-Trichloroethane	239	ug/Kg	
1,1-Dichloroethene	144	ug/Kg	
Tetrachloroethene	3430	ug/Kg	
Trichloroethene	90.9	ug/Kg	J
cis-1,2-Dichloroethene	19.1	ug/Kg	J

Client Sample ID: **East Trench Bedding-SW**
Lab Sample ID: 31203610004-D
SW-846 8260B

Parameter	Result	Units	
1,1,1-Trichloroethane	112	ug/Kg	
1,1-Dichloroethene	44.1	ug/Kg	J
Tetrachloroethene	3580	ug/Kg	
Trichloroethene	104	ug/Kg	
cis-1,2-Dichloroethene	33.3	ug/Kg	J

Client Sample ID: **West Trench Bedding-SW**
Lab Sample ID: 31203610005-D
SW-846 8260B

Parameter	Result	Units	
1,1,1-Trichloroethane	54.3	ug/Kg	J
Tetrachloroethene	2530	ug/Kg	
Trichloroethene	101	ug/Kg	
cis-1,2-Dichloroethene	79.6	ug/Kg	J

Detectable Results Summary

Client Sample ID: **West Trench Water-SW**
Lab Sample ID: 31203610006-A
SW-846 8260B

Parameter	Result	Units	
1,1,1-Trichloroethane	2.20	ug/L	
1,1-Dichloroethane	0.510	ug/L	J
1,1-Dichloroethene	0.480	ug/L	J
Tetrachloroethene	15.9	ug/L	
Toluene	0.180	ug/L	J
Trichloroethene	3.21	ug/L	
cis-1,2-Dichloroethene	3.78	ug/L	

Client Sample ID: **West Trench Bedding-SS**
Lab Sample ID: 31203610007-D
SW-846 8260B

Parameter	Result	Units	
1,1,1-Trichloroethane	130	ug/Kg	J
Tetrachloroethene	9730	ug/Kg	
Trichloroethene	255	ug/Kg	

Client Sample ID: **IDW-Box 1**
Lab Sample ID: 31203610008-A
SW-846 8260B

Parameter	Result	Units	
1,1,1-Trichloroethane	4.05	ug/Kg	J
Acetone	30.1	ug/Kg	J
Methylene chloride	1.31	ug/Kg	J
Tetrachloroethene	29.2	ug/Kg	
Trichloroethene	1.71	ug/Kg	J
cis-1,2-Dichloroethene	0.869	ug/Kg	J

Client Sample ID: **IDW-Box 2**
Lab Sample ID: 31203610009-D
SW-846 8260B

Parameter	Result	Units	
1,1,1-Trichloroethane	44.4	ug/Kg	J
1,1-Dichloroethene	14.8	ug/Kg	J
Tetrachloroethene	1050	ug/Kg	
Trichloroethene	38.7	ug/Kg	J
cis-1,2-Dichloroethene	44.0	ug/Kg	J

Client Sample ID: **IDW-Box 3**
Lab Sample ID: 31203610010-A
SW-846 8260B

Parameter	Result	Units	
Methylene chloride	2.54	ug/Kg	J
Tetrachloroethene	9.41	ug/Kg	

Client Sample ID: **SB40-0-1**
Lab Sample ID: 31203610011-B
SW-846 8260B

Parameter	Result	Units	
2-Butanone	8.72	ug/Kg	J
Acetone	34.0	ug/Kg	J
Methylene chloride	1.12	ug/Kg	J
Tetrachloroethene	2.78	ug/Kg	J

Client Sample ID: **SB40-1-2**
Lab Sample ID: 31203610012-A
SW-846 8260B

Parameter	Result	Units	
Acetone	8.97	ug/Kg	J
Methylene chloride	1.36	ug/Kg	J
Tetrachloroethene	23.4	ug/Kg	

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Detectable Results Summary

Client Sample ID: **SB40-2-3**
Lab Sample ID: 31203610013-A
SW-846 8260B

Parameter	Result	Units	
Acetone	13.6	ug/Kg	J
Methylene chloride	1.60	ug/Kg	J
Tetrachloroethene	45.5	ug/Kg	
Trichloroethene	0.739	ug/Kg	J

Client Sample ID: **SB40-3-4**
Lab Sample ID: 31203610014-A
SW-846 8260B

Parameter	Result	Units	
1,1-Dichloroethane	0.629	ug/Kg	J
1,1-Dichloroethene	4.20	ug/Kg	J
Methylene chloride	2.17	ug/Kg	J
Tetrachloroethene	27.8	ug/Kg	
Trichloroethene	9.82	ug/Kg	
cis-1,2-Dichloroethene	37.1	ug/Kg	

Client Sample ID: **SB40-4-5**
Lab Sample ID: 31203610015-B
SW-846 8260B

Parameter	Result	Units	
1,1-Dichloroethane	7.51	ug/Kg	
1,1-Dichloroethene	62.2	ug/Kg	
Methylene chloride	2.02	ug/Kg	J
Tetrachloroethene	339	ug/Kg	
Trichloroethene	93.3	ug/Kg	
Trichlorofluoromethane	1.04	ug/Kg	J
Vinyl chloride	2.77	ug/Kg	J
cis-1,2-Dichloroethene	472	ug/Kg	

Client Sample ID: **SB40-5-6**
Lab Sample ID: 31203610016-D
SW-846 8260B

Parameter	Result	Units
1,1-Dichloroethene	124	ug/Kg
Tetrachloroethene	1100	ug/Kg
Trichloroethene	208	ug/Kg
cis-1,2-Dichloroethene	652	ug/Kg

Client Sample ID: **SB40-6-7**
Lab Sample ID: 31203610017-D
SW-846 8260B

Parameter	Result	Units
1,1-Dichloroethene	148	ug/Kg
Tetrachloroethene	1650	ug/Kg
Trichloroethene	247	ug/Kg
cis-1,2-Dichloroethene	465	ug/Kg

Client Sample ID: **SB40-7-8**
Lab Sample ID: 31203610018-D
SW-846 8260B

Parameter	Result	Units
1,1-Dichloroethene	175	ug/Kg
Tetrachloroethene	2160	ug/Kg
Trichloroethene	252	ug/Kg
cis-1,2-Dichloroethene	218	ug/Kg

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Detectable Results Summary

Client Sample ID: **SB41-0-1**
Lab Sample ID: 31203610019-B
SW-846 8260B

Parameter	Result	Units	
1,1,1-Trichloroethane	0.678	ug/Kg	J
Acetone	7.72	ug/Kg	J
Methylene chloride	1.20	ug/Kg	J
Tetrachloroethene	26.5	ug/Kg	

Client Sample ID: **SB41-1-2**
Lab Sample ID: 31203610020-D
SW-846 8260B

Parameter	Result	Units
Tetrachloroethene	367	ug/Kg

Client Sample ID: **SB41-2-3**
Lab Sample ID: 31203610021-D
SW-846 8260B

Parameter	Result	Units
Tetrachloroethene	235	ug/Kg

Client Sample ID: **SB41-3-4**
Lab Sample ID: 31203610022-A
SW-846 8260B

Parameter	Result	Units	
1,1,1-Trichloroethane	3.53	ug/Kg	J
1,1-Dichloroethane	1.30	ug/Kg	J
1,1-Dichloroethene	3.09	ug/Kg	J
Acetone	4.49	ug/Kg	J
Methylene chloride	1.55	ug/Kg	J
Tetrachloroethene	120	ug/Kg	
Trichloroethene	6.89	ug/Kg	
cis-1,2-Dichloroethene	6.39	ug/Kg	

Client Sample ID: **SB41-4-5**
Lab Sample ID: 31203610023-D
SW-846 8260B

Parameter	Result	Units	
1,1-Dichloroethene	33.9	ug/Kg	J
Tetrachloroethene	393	ug/Kg	
Trichloroethene	48.6	ug/Kg	
cis-1,2-Dichloroethene	55.0	ug/Kg	

Client Sample ID: **SB41-5-6**
Lab Sample ID: 31203610024-D
SW-846 8260B

Parameter	Result	Units
1,1-Dichloroethene	101	ug/Kg
Tetrachloroethene	1410	ug/Kg
Trichloroethene	98.0	ug/Kg
cis-1,2-Dichloroethene	93.2	ug/Kg

Client Sample ID: **SB41-6-7**
Lab Sample ID: 31203610025-D
SW-846 8260B

Parameter	Result	Units
1,1-Dichloroethene	204	ug/Kg
Tetrachloroethene	2600	ug/Kg
Trichloroethene	134	ug/Kg
cis-1,2-Dichloroethene	131	ug/Kg

Client Sample ID: **SB41-7-8**
Lab Sample ID: 31203610026-D
SW-846 8260B

Parameter	Result	Units
1,1-Dichloroethene	210	ug/Kg
Tetrachloroethene	3230	ug/Kg
Trichloroethene	107	ug/Kg
cis-1,2-Dichloroethene	92.7	ug/Kg

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Detectable Results Summary

Client Sample ID: **SB42-0-1**
Lab Sample ID: 31203610027-A
SW-846 8260B

Parameter	Result	Units	
Acetone	11.3	ug/Kg	J
Methylene chloride	0.878	ug/Kg	J
Tetrachloroethene	8.62	ug/Kg	

Client Sample ID: **SB42-1-2**
Lab Sample ID: 31203610028-A
SW-846 8260B

Parameter	Result	Units	
1,1-Dichloroethane	0.998	ug/Kg	J
Acetone	9.83	ug/Kg	J
Methylene chloride	1.85	ug/Kg	J
Tetrachloroethene	25.4	ug/Kg	

Client Sample ID: **SB42-2-3**
Lab Sample ID: 31203610029-A
SW-846 8260B

Parameter	Result	Units	
1,1,1-Trichloroethane	1.24	ug/Kg	J
1,1-Dichloroethane	10.8	ug/Kg	
1,1-Dichloroethene	2.52	ug/Kg	J
1,2-Dichlorobenzene	1.56	ug/Kg	J
2-Butanone	6.78	ug/Kg	J
Acetone	12.1	ug/Kg	J
Chloroethane	3.35	ug/Kg	J
Methylene chloride	1.02	ug/Kg	J
Tetrachloroethene	103	ug/Kg	
Trichloroethene	2.87	ug/Kg	J
cis-1,2-Dichloroethene	4.73	ug/Kg	

Client Sample ID: **SB42-3-4**
Lab Sample ID: 31203610030-A
SW-846 8260B

Parameter	Result	Units	
1,1-Dichloroethane	137	ug/Kg	
1,2,4-Trimethylbenzene	7.38	ug/Kg	
1,2-Dichlorobenzene	2.82	ug/Kg	J
1,3,5-Trimethylbenzene	4.10	ug/Kg	J
2-Butanone	4.41	ug/Kg	J
4-Isopropyltoluene	10.5	ug/Kg	
Acetone	21.7	ug/Kg	J
Ethyl Benzene	69.0	ug/Kg	
Isopropylbenzene (Cumene)	4.47	ug/Kg	J
Methylene chloride	4.96	ug/Kg	J
Naphthalene	1.23	ug/Kg	J
Tetrachloroethene	81.7	ug/Kg	
Toluene	30.9	ug/Kg	
Trichloroethene	6.30	ug/Kg	
Vinyl chloride	53.9	ug/Kg	
Xylene (total)	285	ug/Kg	
cis-1,2-Dichloroethene	6.89	ug/Kg	
m,p-Xylene	189	ug/Kg	
n-Propylbenzene	4.01	ug/Kg	J
o-Xylene	95.5	ug/Kg	
trans-1,2-Dichloroethene	10.9	ug/Kg	

Detectable Results Summary

Client Sample ID: **SB42-4-5**
Lab Sample ID: 31203610031-D
SW-846 8260B

Parameter	Result	Units	
Tetrachloroethene	3010000	ug/Kg	
Trichloroethene	149000	ug/Kg	
Xylene (total)	20500	ug/Kg	J
cis-1,2-Dichloroethene	46500	ug/Kg	J
m,p-Xylene	20500	ug/Kg	J

Client Sample ID: **SB42-5-6**
Lab Sample ID: 31203610032-D
SW-846 8260B

Parameter	Result	Units	
1,1,1-Trichloroethane	11800	ug/Kg	
1,1-Dichloroethene	3250	ug/Kg	J
Tetrachloroethene	226000	ug/Kg	
Trichloroethene	22700	ug/Kg	
cis-1,2-Dichloroethene	31800	ug/Kg	

Client Sample ID: **SB42-6-7**
Lab Sample ID: 31203610033-D
SW-846 8260B

Parameter	Result	Units	
1,1,1-Trichloroethane	6850	ug/Kg	
1,1-Dichloroethane	895	ug/Kg	J
1,1-Dichloroethene	4460	ug/Kg	
Tetrachloroethene	39100	ug/Kg	
Trichloroethene	3970	ug/Kg	
cis-1,2-Dichloroethene	14000	ug/Kg	

Client Sample ID: **SB42-7-8**
Lab Sample ID: 31203610034-D
SW-846 8260B

Parameter	Result	Units	
1,1,1-Trichloroethane	5850	ug/Kg	
1,1-Dichloroethene	4150	ug/Kg	
Tetrachloroethene	34500	ug/Kg	
Trichloroethene	2080	ug/Kg	
cis-1,2-Dichloroethene	6620	ug/Kg	

Client Sample ID: **SB43-0-1**
Lab Sample ID: 31203610035-D
SW-846 8260B

Parameter	Result	Units	
Tetrachloroethene	434	ug/Kg	
Trichloroethene	11.3	ug/Kg	J

Client Sample ID: **SB43-1-2**
Lab Sample ID: 31203610036-D
SW-846 8260B

Parameter	Result	Units	
Tetrachloroethene	696	ug/Kg	
Trichloroethene	29.4	ug/Kg	J

Client Sample ID: **SB43-2-3**
Lab Sample ID: 31203610037-D
SW-846 8260B

Parameter	Result	Units	
Tetrachloroethene	1460	ug/Kg	
Trichloroethene	55.9	ug/Kg	J

Client Sample ID: **SB43-3-4**
Lab Sample ID: 31203610038-D
SW-846 8260B

Parameter	Result	Units
Tetrachloroethene	6820	ug/Kg
Trichloroethene	266	ug/Kg

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Detectable Results Summary

Client Sample ID: **SB43-4-5**
Lab Sample ID: 31203610039-D
SW-846 8260B

Parameter	Result	Units	
Tetrachloroethene	14900	ug/Kg	
Trichloroethene	706	ug/Kg	

Client Sample ID: **SB43-5-6**
Lab Sample ID: 31203610040-D
SW-846 8260B

Parameter	Result	Units	
Tetrachloroethene	22700	ug/Kg	
Trichloroethene	758	ug/Kg	J
cis-1,2-Dichloroethene	699	ug/Kg	J

Client Sample ID: **SB43-6-7**
Lab Sample ID: 31203610041-D
SW-846 8260B

Parameter	Result	Units
Tetrachloroethene	62300	ug/Kg

Client Sample ID: **SB43-7-8**
Lab Sample ID: 31203610042-D
SW-846 8260B

Parameter	Result	Units	
Tetrachloroethene	8230	ug/Kg	
Trichloroethene	117	ug/Kg	J

Client Sample ID: **SB44-0-1**
Lab Sample ID: 31203610043-D
SW-846 8260B

Parameter	Result	Units
Tetrachloroethene	684	ug/Kg

Client Sample ID: **SB44-1-2**
Lab Sample ID: 31203610044-D
SW-846 8260B

Parameter	Result	Units	
1,1,1-Trichloroethane	47.1	ug/Kg	J
Tetrachloroethene	2880	ug/Kg	
Trichloroethene	78.1	ug/Kg	J

Client Sample ID: **SB44-2-3**
Lab Sample ID: 31203610045-D
SW-846 8260B

Parameter	Result	Units	
Tetrachloroethene	13700	ug/Kg	
Trichloroethene	410	ug/Kg	J
cis-1,2-Dichloroethene	121	ug/Kg	J

Client Sample ID: **SB44-3-4**
Lab Sample ID: 31203610046-D
SW-846 8260B

Parameter	Result	Units	
1,1,1-Trichloroethane	480	ug/Kg	
Tetrachloroethene	13800	ug/Kg	
Trichloroethene	560	ug/Kg	
cis-1,2-Dichloroethene	278	ug/Kg	J

Client Sample ID: **SB44-4-5**
Lab Sample ID: 31203610047-D
SW-846 8260B

Parameter	Result	Units	
Tetrachloroethene	79700	ug/Kg	
Trichloroethene	796	ug/Kg	J

Client Sample ID: **SB44-5-6**
Lab Sample ID: 31203610048-D
SW-846 8260B

Parameter	Result	Units	
Tetrachloroethene	112000	ug/Kg	
Trichloroethene	1770	ug/Kg	J

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Detectable Results Summary

Client Sample ID: **SB44-6-7**
Lab Sample ID: 31203610049-D
SW-846 8260B

Parameter	Result	Units	
Ethyl Benzene	3600	ug/Kg	J
Tetrachloroethene	742000	ug/Kg	
Trichloroethene	5500	ug/Kg	J
Xylene (total)	13100	ug/Kg	J
m,p-Xylene	9480	ug/Kg	J
o-Xylene	3600	ug/Kg	J

Client Sample ID: **SB44-7-8**
Lab Sample ID: 31203610050-D
SW-846 8260B

Parameter	Result	Units	
1,1,1-Trichloroethane	5760	ug/Kg	
1,1-Dichloroethene	2260	ug/Kg	
Ethyl Benzene	302	ug/Kg	J
Tetrachloroethene	48500	ug/Kg	
Trichloroethene	1250	ug/Kg	J
Xylene (total)	820	ug/Kg	J
m,p-Xylene	820	ug/Kg	J

Client Sample ID: **SB45-0-1**
Lab Sample ID: 31203610051-A
SW-846 8260B

Parameter	Result	Units	
1,1,1-Trichloroethane	1.28	ug/Kg	J
2-Butanone	9.96	ug/Kg	J
Acetone	64.6	ug/Kg	
Carbon disulfide	3.98	ug/Kg	
Methylene chloride	0.920	ug/Kg	J
Tetrachloroethene	19.9	ug/Kg	

Client Sample ID: **SB45-1-2**
Lab Sample ID: 31203610052-D
SW-846 8260B

Parameter	Result	Units
Tetrachloroethene	76.9	ug/Kg

Client Sample ID: **SB45-2-3**
Lab Sample ID: 31203610053-D
SW-846 8260B

Parameter	Result	Units
Tetrachloroethene	44.7	ug/Kg

Client Sample ID: **SB45-3-4**
Lab Sample ID: 31203610054-D
SW-846 8260B

Parameter	Result	Units	
1,1,1-Trichloroethane	29.4	ug/Kg	J
Tetrachloroethene	266	ug/Kg	

Client Sample ID: **SB45-4-5**
Lab Sample ID: 31203610055-A
SW-846 8260B

Parameter	Result	Units	
1,1,1-Trichloroethane	6.48	ug/Kg	
Acetone	14.2	ug/Kg	J
Tetrachloroethene	121	ug/Kg	
Trichloroethene	2.42	ug/Kg	J
cis-1,2-Dichloroethene	0.795	ug/Kg	J

Client Sample ID: **SB45-5-6**
Lab Sample ID: 31203610056-D
SW-846 8260B

Parameter	Result	Units
Tetrachloroethene	140	ug/Kg

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Detectable Results Summary

Client Sample ID: **SB45-6-7**
Lab Sample ID: 31203610057-D
SW-846 8260B

Parameter	Result	Units	
1,1,1-Trichloroethane	107	ug/Kg	
1,1-Dichloroethene	37.6	ug/Kg	J
Tetrachloroethene	1120	ug/Kg	
Trichloroethene	33.6	ug/Kg	J

Client Sample ID: **SB45-7-8**
Lab Sample ID: 31203610058-D
SW-846 8260B

Parameter	Result	Units	
1,1,1-Trichloroethane	173	ug/Kg	
1,1-Dichloroethene	85.1	ug/Kg	
Tetrachloroethene	1160	ug/Kg	
Trichloroethene	39.0	ug/Kg	J

Client Sample ID: **East Trench Bedding-SS (TCLP)**
Lab Sample ID: 31203610059-A
SW-846 8260B-TCLP

Parameter	Result	Units	
Tetrachloroethene	8.80	ug/L	J

Client Sample ID: **East Trench Bedding-SW (TCLP)**
Lab Sample ID: 31203610060-A
SW-846 8260B-TCLP

Parameter	Result	Units
Tetrachloroethene	12.4	ug/L

Client Sample ID: **West Trench Bedding-SW (TCLP)**
Lab Sample ID: 31203610061-A
SW-846 8260B-TCLP

Parameter	Result	Units	
Tetrachloroethene	9.80	ug/L	J

Client Sample ID: **West Trench Bedding-SS (TCLP)**
Lab Sample ID: 31203610062-A
SW-846 8260B-TCLP

Parameter	Result	Units
Tetrachloroethene	38.2	ug/L

Quality Control Samples

Client Sample ID: **MB-S for HBN 31470 [VXX/4321]**
Lab Sample ID: 99418
SW-846 8260B

Parameter	Result	Units	
Methylene chloride	2.00	ug/Kg	J

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Results of **MW-8**

Client Sample ID: **MW-8**
Client Project ID: **2012.0009**
Lab Sample ID: 31203610001-B
Lab Project ID: 31203610

Collection Date: 10/30/2012 15:10
Received Date: 11/02/2012 14:00
Matrix: Water

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	U	0.175	1.00	ug/L	1	11/6/2012 14:09
1,1,1-Trichloroethane	**45.9**		0.221	1.00	ug/L	1	11/6/2012 14:09
1,1,2,2-Tetrachloroethane	ND	U	0.223	1.00	ug/L	1	11/6/2012 14:09
1,1,2-Trichloroethane	ND	U	0.216	1.00	ug/L	1	11/6/2012 14:09
1,1-Dichloroethane	**5.15**		0.162	1.00	ug/L	1	11/6/2012 14:09
1,1-Dichloroethene	**128**		8.08	40.0	ug/L	40	11/6/2012 13:19
1,1-Dichloropropene	ND	U	0.176	1.00	ug/L	1	11/6/2012 14:09
1,2,3-Trichlorobenzene	ND	U	0.246	1.00	ug/L	1	11/6/2012 14:09
1,2,3-Trichloropropane	ND	U	0.210	1.00	ug/L	1	11/6/2012 14:09
1,2,4-Trichlorobenzene	ND	U	0.220	1.00	ug/L	1	11/6/2012 14:09
1,2,4-Trimethylbenzene	ND	U	0.179	1.00	ug/L	1	11/6/2012 14:09
1,2-Dibromo-3-chloropropane	ND	U	1.88	5.00	ug/L	1	11/6/2012 14:09
1,2-Dibromoethane	ND	U	0.179	1.00	ug/L	1	11/6/2012 14:09
1,2-Dichlorobenzene	**0.430**	J	0.214	1.00	ug/L	1	11/6/2012 14:09
1,2-Dichloroethane	ND	U	0.139	1.00	ug/L	1	11/6/2012 14:09
1,2-Dichloropropane	ND	U	0.158	1.00	ug/L	1	11/6/2012 14:09
1,3,5-Trimethylbenzene	ND	U	0.159	1.00	ug/L	1	11/6/2012 14:09
1,3-Dichlorobenzene	ND	U	0.180	1.00	ug/L	1	11/6/2012 14:09
1,3-Dichloropropane	ND	U	0.198	1.00	ug/L	1	11/6/2012 14:09
1,4-Dichlorobenzene	ND	U	0.243	1.00	ug/L	1	11/6/2012 14:09
2,2-Dichloropropane	ND	U	0.194	1.00	ug/L	1	11/6/2012 14:09
2-Butanone	ND	U	1.39	25.0	ug/L	1	11/6/2012 14:09
2-Chlorotoluene	ND	U	0.160	1.00	ug/L	1	11/6/2012 14:09
2-Hexanone	ND	U	1.39	5.00	ug/L	1	11/6/2012 14:09
4-Chlorotoluene	ND	U	0.259	1.00	ug/L	1	11/6/2012 14:09
4-Isopropyltoluene	ND	U	0.170	1.00	ug/L	1	11/6/2012 14:09
4-Methyl-2-pentanone	ND	U	1.15	5.00	ug/L	1	11/6/2012 14:09
Acetone	**15.1**	J	2.56	25.0	ug/L	1	11/6/2012 14:09
Benzene	ND	U	0.156	1.00	ug/L	1	11/6/2012 14:09
Bromobenzene	ND	U	0.205	1.00	ug/L	1	11/6/2012 14:09
Bromochloromethane	ND	U	0.134	1.00	ug/L	1	11/6/2012 14:09
Bromodichloromethane	ND	U	0.222	1.00	ug/L	1	11/6/2012 14:09
Bromoform	ND	U	0.208	1.00	ug/L	1	11/6/2012 14:09
Bromomethane	ND	U	0.507	1.00	ug/L	1	11/6/2012 14:09
n-Butylbenzene	ND	U	0.168	1.00	ug/L	1	11/6/2012 14:09
Carbon disulfide	ND	U	0.197	1.00	ug/L	1	11/6/2012 14:09
Carbon tetrachloride	ND	U	0.169	1.00	ug/L	1	11/6/2012 14:09
Chlorobenzene	ND	U	0.158	1.00	ug/L	1	11/6/2012 14:09
Chloroethane	ND	U	0.902	1.00	ug/L	1	11/6/2012 14:09
Chloroform	ND	U	0.205	1.00	ug/L	1	11/6/2012 14:09
Chloromethane	ND	U	0.295	1.00	ug/L	1	11/6/2012 14:09
Dibromochloromethane	ND	U	0.173	1.00	ug/L	1	11/6/2012 14:09
Dibromomethane	ND	U	0.171	1.00	ug/L	1	11/6/2012 14:09

Print Date: 11/28/2012

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Results of **MW-8**

Client Sample ID: **MW-8**
Client Project ID: **2012.0009**
Lab Sample ID: 31203610001-B
Lab Project ID: 31203610

Collection Date: 10/30/2012 15:10
Received Date: 11/02/2012 14:00
Matrix: Water

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
Dichlorodifluoromethane	ND	U	0.283	5.00	ug/L	1	11/6/2012 14:09
cis-1,3-Dichloropropene	ND	U	0.185	1.00	ug/L	1	11/6/2012 14:09
trans-1,3-Dichloropropene	ND	U	0.167	1.00	ug/L	1	11/6/2012 14:09
Diisopropyl Ether	ND	U	0.134	1.00	ug/L	1	11/6/2012 14:09
Ethyl Benzene	ND	U	0.186	1.00	ug/L	1	11/6/2012 14:09
Hexachlorobutadiene	ND	U	0.365	1.00	ug/L	1	11/6/2012 14:09
Isopropylbenzene (Cumene)	ND	U	0.196	1.00	ug/L	1	11/6/2012 14:09
Methyl iodide	ND	U	0.247	1.00	ug/L	1	11/6/2012 14:09
Methylene chloride	**0.380**	J	0.199	5.00	ug/L	1	11/6/2012 14:09
Naphthalene	ND	U	0.260	1.00	ug/L	1	11/6/2012 14:09
Styrene	ND	U	0.207	1.00	ug/L	1	11/6/2012 14:09
Tetrachloroethene	**874**		9.00	40.0	ug/L	40	11/6/2012 13:19
Toluene	ND	U	0.180	1.00	ug/L	1	11/6/2012 14:09
Trichloroethene	**58.2**		0.199	1.00	ug/L	1	11/6/2012 14:09
Trichlorofluoromethane	ND	U	0.308	1.00	ug/L	1	11/6/2012 14:09
Vinyl chloride	ND	U	0.386	1.00	ug/L	1	11/6/2012 14:09
Xylene (total)	ND	U	0.602	2.00	ug/L	1	11/6/2012 14:09
cis-1,2-Dichloroethene	**1.72**		0.179	1.00	ug/L	1	11/6/2012 14:09
m,p-Xylene	ND	U	0.407	2.00	ug/L	1	11/6/2012 14:09
n-Propylbenzene	ND	U	0.185	1.00	ug/L	1	11/6/2012 14:09
o-Xylene	ND	U	0.195	1.00	ug/L	1	11/6/2012 14:09
sec-Butylbenzene	ND	U	0.151	1.00	ug/L	1	11/6/2012 14:09
tert-Butyl methyl ether (MTBE)	ND	U	0.195	1.00	ug/L	1	11/6/2012 14:09
tert-Butylbenzene	ND	U	0.239	1.00	ug/L	1	11/6/2012 14:09
trans-1,2-Dichloroethene	ND	U	0.247	1.00	ug/L	1	11/6/2012 14:09
trans-1,4-Dichloro-2-butene	ND	U	1.25	5.00	ug/L	1	11/6/2012 14:09
Surrogates							
1,2-Dichloroethane-d4	93.0			64.0-140	%	1	11/6/2012 14:09
4-Bromofluorobenzene	107			85.0-115	%	1	11/6/2012 14:09
Toluene d8	103			82.0-117	%	1	11/6/2012 14:09

Batch Information

Analytical Batch: **VMS2714**
Analytical Method: **SW-846 8260B**
Instrument: **MSD3**
Analyst: **DVO**

Prep Batch: **VXX4285**
Prep Method: **SW-846 5030B**
Prep Date/Time: **11/06/2012 08:00**
Prep Initial Wt./Vol.: **40 mL**
Prep Extract Vol: **40 mL**

Print Date: 11/28/2012

N.C. Certification # 481

Results of **MW-4**

Client Sample ID: **MW-4**
Client Project ID: **2012.0009**
Lab Sample ID: 31203610002-A
Lab Project ID: 31203610

Collection Date: 10/30/2012 15:45
Received Date: 11/02/2012 14:00
Matrix: Water

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	U	4.38	25.0	ug/L	25	11/6/2012 14:35
1,1,1-Trichloroethane	**8940**		276	1250	ug/L	1250	11/6/2012 13:44
1,1,2,2-Tetrachloroethane	ND	U	5.58	25.0	ug/L	25	11/6/2012 14:35
1,1,2-Trichloroethane	ND	U	5.40	25.0	ug/L	25	11/6/2012 14:35
1,1-Dichloroethane	**7.00**	J	4.05	25.0	ug/L	25	11/6/2012 14:35
1,1-Dichloroethene	**3140**		253	1250	ug/L	1250	11/6/2012 13:44
1,1-Dichloropropene	ND	U	4.40	25.0	ug/L	25	11/6/2012 14:35
1,2,3-Trichlorobenzene	ND	U	6.15	25.0	ug/L	25	11/6/2012 14:35
1,2,3-Trichloropropane	ND	U	5.25	25.0	ug/L	25	11/6/2012 14:35
1,2,4-Trichlorobenzene	ND	U	5.50	25.0	ug/L	25	11/6/2012 14:35
1,2,4-Trimethylbenzene	ND	U	4.48	25.0	ug/L	25	11/6/2012 14:35
1,2-Dibromo-3-chloropropane	ND	U	47.0	125	ug/L	25	11/6/2012 14:35
1,2-Dibromoethane	ND	U	4.48	25.0	ug/L	25	11/6/2012 14:35
1,2-Dichlorobenzene	**15.0**	J	5.35	25.0	ug/L	25	11/6/2012 14:35
1,2-Dichloroethane	ND	U	3.48	25.0	ug/L	25	11/6/2012 14:35
1,2-Dichloropropane	ND	U	3.95	25.0	ug/L	25	11/6/2012 14:35
1,3,5-Trimethylbenzene	ND	U	3.98	25.0	ug/L	25	11/6/2012 14:35
1,3-Dichlorobenzene	ND	U	4.50	25.0	ug/L	25	11/6/2012 14:35
1,3-Dichloropropane	ND	U	4.95	25.0	ug/L	25	11/6/2012 14:35
1,4-Dichlorobenzene	ND	U	6.08	25.0	ug/L	25	11/6/2012 14:35
2,2-Dichloropropane	ND	U	4.85	25.0	ug/L	25	11/6/2012 14:35
2-Butanone	ND	U	34.8	625	ug/L	25	11/6/2012 14:35
2-Chlorotoluene	ND	U	4.00	25.0	ug/L	25	11/6/2012 14:35
2-Hexanone	ND	U	34.8	125	ug/L	25	11/6/2012 14:35
4-Chlorotoluene	ND	U	6.48	25.0	ug/L	25	11/6/2012 14:35
4-Isopropyltoluene	ND	U	4.25	25.0	ug/L	25	11/6/2012 14:35
4-Methyl-2-pentanone	ND	U	28.8	125	ug/L	25	11/6/2012 14:35
Acetone	**398**	J	64.0	625	ug/L	25	11/6/2012 14:35
Benzene	ND	U	3.90	25.0	ug/L	25	11/6/2012 14:35
Bromobenzene	ND	U	5.13	25.0	ug/L	25	11/6/2012 14:35
Bromochloromethane	ND	U	3.35	25.0	ug/L	25	11/6/2012 14:35
Bromodichloromethane	ND	U	5.55	25.0	ug/L	25	11/6/2012 14:35
Bromoform	ND	U	5.20	25.0	ug/L	25	11/6/2012 14:35
Bromomethane	ND	U	12.7	25.0	ug/L	25	11/6/2012 14:35
n-Butylbenzene	ND	U	4.20	25.0	ug/L	25	11/6/2012 14:35
Carbon disulfide	ND	U	4.93	25.0	ug/L	25	11/6/2012 14:35
Carbon tetrachloride	ND	U	4.23	25.0	ug/L	25	11/6/2012 14:35
Chlorobenzene	ND	U	3.95	25.0	ug/L	25	11/6/2012 14:35
Chloroethane	ND	U	22.6	25.0	ug/L	25	11/6/2012 14:35
Chloroform	ND	U	5.13	25.0	ug/L	25	11/6/2012 14:35
Chloromethane	ND	U	7.38	25.0	ug/L	25	11/6/2012 14:35
Dibromochloromethane	ND	U	4.33	25.0	ug/L	25	11/6/2012 14:35
Dibromomethane	ND	U	4.28	25.0	ug/L	25	11/6/2012 14:35

Print Date: 11/28/2012

N.C. Certification # 481

Results of **MW-4**

Client Sample ID: **MW-4**
Client Project ID: **2012.0009**
Lab Sample ID: 31203610002-A
Lab Project ID: 31203610

Collection Date: 10/30/2012 15:45
Received Date: 11/02/2012 14:00
Matrix: Water

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
Dichlorodifluoromethane	ND	U	7.08	125	ug/L	25	11/6/2012 14:35
cis-1,3-Dichloropropene	ND	U	4.63	25.0	ug/L	25	11/6/2012 14:35
trans-1,3-Dichloropropene	ND	U	4.18	25.0	ug/L	25	11/6/2012 14:35
Diisopropyl Ether	ND	U	3.35	25.0	ug/L	25	11/6/2012 14:35
Ethyl Benzene	**70.5**		4.65	25.0	ug/L	25	11/6/2012 14:35
Hexachlorobutadiene	ND	U	9.13	25.0	ug/L	25	11/6/2012 14:35
Isopropylbenzene (Cumene)	ND	U	4.90	25.0	ug/L	25	11/6/2012 14:35
Methyl iodide	ND	U	6.18	25.0	ug/L	25	11/6/2012 14:35
Methylene chloride	ND	U	4.98	125	ug/L	25	11/6/2012 14:35
Naphthalene	ND	U	6.50	25.0	ug/L	25	11/6/2012 14:35
Styrene	ND	U	5.18	25.0	ug/L	25	11/6/2012 14:35
Tetrachloroethene	**25800**		281	1250	ug/L	1250	11/6/2012 13:44
Toluene	**35.8**		4.50	25.0	ug/L	25	11/6/2012 14:35
Trichloroethene	**3380**		249	1250	ug/L	1250	11/6/2012 13:44
Trichlorofluoromethane	**124**		7.70	25.0	ug/L	25	11/6/2012 14:35
Vinyl chloride	ND	U	9.65	25.0	ug/L	25	11/6/2012 14:35
Xylene (total)	**306**		15.1	50.0	ug/L	25	11/6/2012 14:35
cis-1,2-Dichloroethene	ND	U	4.48	25.0	ug/L	25	11/6/2012 14:35
m,p-Xylene	**246**		10.2	50.0	ug/L	25	11/6/2012 14:35
n-Propylbenzene	ND	U	4.63	25.0	ug/L	25	11/6/2012 14:35
o-Xylene	**60.5**		4.88	25.0	ug/L	25	11/6/2012 14:35
sec-Butylbenzene	ND	U	3.78	25.0	ug/L	25	11/6/2012 14:35
tert-Butyl methyl ether (MTBE)	ND	U	4.88	25.0	ug/L	25	11/6/2012 14:35
tert-Butylbenzene	ND	U	5.98	25.0	ug/L	25	11/6/2012 14:35
trans-1,2-Dichloroethene	ND	U	6.18	25.0	ug/L	25	11/6/2012 14:35
trans-1,4-Dichloro-2-butene	ND	U	31.3	125	ug/L	25	11/6/2012 14:35
Surrogates							
1,2-Dichloroethane-d4	94.0			64.0-140	%	25	11/6/2012 14:35
4-Bromofluorobenzene	106			85.0-115	%	25	11/6/2012 14:35
Toluene d8	104			82.0-117	%	25	11/6/2012 14:35

Batch Information

Analytical Batch: **VMS2714**
Analytical Method: **SW-846 8260B**
Instrument: **MSD3**
Analyst: **DVO**

Prep Batch: **VXX4285**
Prep Method: **SW-846 5030B**
Prep Date/Time: **11/06/2012 08:00**
Prep Initial Wt./Vol.: **40 mL**
Prep Extract Vol: **40 mL**

Print Date: 11/28/2012

N.C. Certification # 481

Results of **East Trench Bedding-SS**

Client Sample ID: **East Trench Bedding-SS**
Client Project ID: **2012.0009**
Lab Sample ID: 31203610003-D
Lab Project ID: 31203610

Collection Date: 10/31/2012 11:40
Received Date: 11/02/2012 14:00
Matrix: Soil-Solid as dry weight
Solids (%): 76.50

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	U	9.95	95.6	ug/Kg	100	11/7/2012 16:09
1,1,1-Trichloroethane	**239**		11.8	95.6	ug/Kg	100	11/7/2012 16:09
1,1,2,2-Tetrachloroethane	ND	U	14.9	95.6	ug/Kg	100	11/7/2012 16:09
1,1,2-Trichloroethane	ND	U	12.1	95.6	ug/Kg	100	11/7/2012 16:09
1,1-Dichloroethane	ND	U	15.8	95.6	ug/Kg	100	11/7/2012 16:09
1,1-Dichloroethene	**144**		20.3	95.6	ug/Kg	100	11/7/2012 16:09
1,1-Dichloropropene	ND	U	8.25	95.6	ug/Kg	100	11/7/2012 16:09
1,2,3-Trichlorobenzene	ND	U	10.5	95.6	ug/Kg	100	11/7/2012 16:09
1,2,3-Trichloropropane	ND	U	20.3	95.6	ug/Kg	100	11/7/2012 16:09
1,2,4-Trichlorobenzene	ND	U	8.73	95.6	ug/Kg	100	11/7/2012 16:09
1,2,4-Trimethylbenzene	ND	U	9.19	95.6	ug/Kg	100	11/7/2012 16:09
1,2-Dibromo-3-chloropropane	ND	U	71.5	478	ug/Kg	100	11/7/2012 16:09
1,2-Dibromoethane	ND	U	11.5	95.6	ug/Kg	100	11/7/2012 16:09
1,2-Dichlorobenzene	ND	U	13.1	95.6	ug/Kg	100	11/7/2012 16:09
1,2-Dichloroethane	ND	U	16.0	95.6	ug/Kg	100	11/7/2012 16:09
1,2-Dichloropropane	ND	U	15.6	95.6	ug/Kg	100	11/7/2012 16:09
1,3,5-Trimethylbenzene	ND	U	10.8	95.6	ug/Kg	100	11/7/2012 16:09
1,3-Dichlorobenzene	ND	U	9.85	95.6	ug/Kg	100	11/7/2012 16:09
1,3-Dichloropropane	ND	U	12.4	95.6	ug/Kg	100	11/7/2012 16:09
1,4-Dichlorobenzene	ND	U	12.4	95.6	ug/Kg	100	11/7/2012 16:09
2,2-Dichloropropane	ND	U	37.6	95.6	ug/Kg	100	11/7/2012 16:09
2-Butanone	ND	U	69.1	2390	ug/Kg	100	11/7/2012 16:09
2-Chlorotoluene	ND	U	10.8	95.6	ug/Kg	100	11/7/2012 16:09
2-Hexanone	ND	U	69.6	478	ug/Kg	100	11/7/2012 16:09
4-Chlorotoluene	ND	U	12.0	95.6	ug/Kg	100	11/7/2012 16:09
4-Isopropyltoluene	ND	U	7.35	95.6	ug/Kg	100	11/7/2012 16:09
4-Methyl-2-pentanone	ND	U	53.4	478	ug/Kg	100	11/7/2012 16:09
Acetone	ND	U	82.6	2390	ug/Kg	100	11/7/2012 16:09
Benzene	ND	U	10.8	95.6	ug/Kg	100	11/7/2012 16:09
Bromobenzene	ND	U	10.5	95.6	ug/Kg	100	11/7/2012 16:09
Bromochloromethane	ND	U	20.2	95.6	ug/Kg	100	11/7/2012 16:09
Bromodichloromethane	ND	U	10.5	95.6	ug/Kg	100	11/7/2012 16:09
Bromoform	ND	U	9.32	95.6	ug/Kg	100	11/7/2012 16:09
Bromomethane	ND	U	22.7	95.6	ug/Kg	100	11/7/2012 16:09
n-Butylbenzene	ND	U	7.35	95.6	ug/Kg	100	11/7/2012 16:09
Carbon disulfide	ND	U	10.1	95.6	ug/Kg	100	11/7/2012 16:09
Carbon tetrachloride	ND	U	9.66	95.6	ug/Kg	100	11/7/2012 16:09
Chlorobenzene	ND	U	11.1	95.6	ug/Kg	100	11/7/2012 16:09
Chloroethane	ND	U	29.7	95.6	ug/Kg	100	11/7/2012 16:09
Chloroform	ND	U	13.3	95.6	ug/Kg	100	11/7/2012 16:09
Chloromethane	ND	U	42.8	95.6	ug/Kg	100	11/7/2012 16:09
Dibromochloromethane	ND	U	12.8	95.6	ug/Kg	100	11/7/2012 16:09
Dibromomethane	ND	U	16.1	95.6	ug/Kg	100	11/7/2012 16:09

Print Date: 11/28/2012

N.C. Certification # 481

Results of **East Trench Bedding-SS**

Client Sample ID: **East Trench Bedding-SS**
Client Project ID: **2012.0009**
Lab Sample ID: 31203610003-D
Lab Project ID: 31203610

Collection Date: 10/31/2012 11:40
Received Date: 11/02/2012 14:00
Matrix: Soil-Solid as dry weight
Solids (%): 76.50

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
Dichlorodifluoromethane	ND	U	16.4	478	ug/Kg	100	11/7/2012 16:09
cis-1,3-Dichloropropene	ND	U	7.34	95.6	ug/Kg	100	11/7/2012 16:09
trans-1,3-Dichloropropene	ND	U	8.24	95.6	ug/Kg	100	11/7/2012 16:09
Diisopropyl Ether	ND	U	28.1	95.6	ug/Kg	100	11/7/2012 16:09
Ethyl Benzene	ND	U	8.39	95.6	ug/Kg	100	11/7/2012 16:09
Hexachlorobutadiene	ND	U	7.57	95.6	ug/Kg	100	11/7/2012 16:09
Isopropylbenzene (Cumene)	ND	U	8.31	95.6	ug/Kg	100	11/7/2012 16:09
Methyl iodide	ND	U	11.0	95.6	ug/Kg	100	11/7/2012 16:09
Methylene chloride	ND	U	14.5	478	ug/Kg	100	11/7/2012 16:09
Naphthalene	ND	U	8.18	95.6	ug/Kg	100	11/7/2012 16:09
Styrene	ND	U	9.76	95.6	ug/Kg	100	11/7/2012 16:09
Tetrachloroethene	**3430**		14.8	95.6	ug/Kg	100	11/7/2012 16:09
Toluene	ND	U	12.7	95.6	ug/Kg	100	11/7/2012 16:09
Trichloroethene	**90.9**	J	12.0	95.6	ug/Kg	100	11/7/2012 16:09
Trichlorofluoromethane	ND	U	13.1	95.6	ug/Kg	100	11/7/2012 16:09
Vinyl chloride	ND	U	11.9	95.6	ug/Kg	100	11/7/2012 16:09
Xylene (total)	ND	U	17.4	191	ug/Kg	100	11/7/2012 16:09
cis-1,2-Dichloroethene	**19.1**	J	13.0	95.6	ug/Kg	100	11/7/2012 16:09
m,p-Xylene	ND	U	17.4	191	ug/Kg	100	11/7/2012 16:09
n-Propylbenzene	ND	U	10.8	95.6	ug/Kg	100	11/7/2012 16:09
o-Xylene	ND	U	8.36	95.6	ug/Kg	100	11/7/2012 16:09
sec-Butylbenzene	ND	U	10.7	95.6	ug/Kg	100	11/7/2012 16:09
tert-Butyl methyl ether (MTBE)	ND	U	13.8	95.6	ug/Kg	100	11/7/2012 16:09
tert-Butylbenzene	ND	U	8.18	95.6	ug/Kg	100	11/7/2012 16:09
trans-1,2-Dichloroethene	ND	U	21.3	95.6	ug/Kg	100	11/7/2012 16:09
trans-1,4-Dichloro-2-butene	ND	U	39.6	478	ug/Kg	100	11/7/2012 16:09
Surrogates							
1,2-Dichloroethane-d4	105			55.0-173	%	100	11/7/2012 16:09
4-Bromofluorobenzene	96.0			23.0-141	%	100	11/7/2012 16:09
Toluene d8	106			57.0-134	%	100	11/7/2012 16:09

Batch Information

Analytical Batch: **VMS2720**
Analytical Method: **SW-846 8260B**
Instrument: **MSD8**
Analyst: **DVO**

Prep Batch: **VXX4308**
Prep Method: **SW-846 5035 SM**
Prep Date/Time: **11/06/2012 11:21**
Prep Initial Wt./Vol.: **6.83 g**
Prep Extract Vol: **5 mL**

Print Date: 11/28/2012

N.C. Certification # 481

Results of **East Trench Bedding-SW**

Client Sample ID: **East Trench Bedding-SW**
Client Project ID: **2012.0009**
Lab Sample ID: 31203610004-D
Lab Project ID: 31203610

Collection Date: 10/31/2012 12:00
Received Date: 11/02/2012 14:00
Matrix: Soil-Solid as dry weight
Solids (%): 80.60

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	U	9.35	89.9	ug/Kg	100	11/7/2012 16:34
1,1,1-Trichloroethane	**112**		11.1	89.9	ug/Kg	100	11/7/2012 16:34
1,1,2,2-Tetrachloroethane	ND	U	14.0	89.9	ug/Kg	100	11/7/2012 16:34
1,1,2-Trichloroethane	ND	U	11.3	89.9	ug/Kg	100	11/7/2012 16:34
1,1-Dichloroethane	ND	U	14.8	89.9	ug/Kg	100	11/7/2012 16:34
1,1-Dichloroethene	**44.1**	J	19.1	89.9	ug/Kg	100	11/7/2012 16:34
1,1-Dichloropropene	ND	U	7.76	89.9	ug/Kg	100	11/7/2012 16:34
1,2,3-Trichlorobenzene	ND	U	9.89	89.9	ug/Kg	100	11/7/2012 16:34
1,2,3-Trichloropropane	ND	U	19.1	89.9	ug/Kg	100	11/7/2012 16:34
1,2,4-Trichlorobenzene	ND	U	8.21	89.9	ug/Kg	100	11/7/2012 16:34
1,2,4-Trimethylbenzene	ND	U	8.64	89.9	ug/Kg	100	11/7/2012 16:34
1,2-Dibromo-3-chloropropane	ND	U	67.3	450	ug/Kg	100	11/7/2012 16:34
1,2-Dibromoethane	ND	U	10.8	89.9	ug/Kg	100	11/7/2012 16:34
1,2-Dichlorobenzene	ND	U	12.3	89.9	ug/Kg	100	11/7/2012 16:34
1,2-Dichloroethane	ND	U	15.0	89.9	ug/Kg	100	11/7/2012 16:34
1,2-Dichloropropane	ND	U	14.7	89.9	ug/Kg	100	11/7/2012 16:34
1,3,5-Trimethylbenzene	ND	U	10.2	89.9	ug/Kg	100	11/7/2012 16:34
1,3-Dichlorobenzene	ND	U	9.26	89.9	ug/Kg	100	11/7/2012 16:34
1,3-Dichloropropane	ND	U	11.7	89.9	ug/Kg	100	11/7/2012 16:34
1,4-Dichlorobenzene	ND	U	11.7	89.9	ug/Kg	100	11/7/2012 16:34
2,2-Dichloropropane	ND	U	35.3	89.9	ug/Kg	100	11/7/2012 16:34
2-Butanone	ND	U	65.0	2250	ug/Kg	100	11/7/2012 16:34
2-Chlorotoluene	ND	U	10.2	89.9	ug/Kg	100	11/7/2012 16:34
2-Hexanone	ND	U	65.5	450	ug/Kg	100	11/7/2012 16:34
4-Chlorotoluene	ND	U	11.2	89.9	ug/Kg	100	11/7/2012 16:34
4-Isopropyltoluene	ND	U	6.92	89.9	ug/Kg	100	11/7/2012 16:34
4-Methyl-2-pentanone	ND	U	50.2	450	ug/Kg	100	11/7/2012 16:34
Acetone	ND	U	77.7	2250	ug/Kg	100	11/7/2012 16:34
Benzene	ND	U	10.2	89.9	ug/Kg	100	11/7/2012 16:34
Bromobenzene	ND	U	9.89	89.9	ug/Kg	100	11/7/2012 16:34
Bromochloromethane	ND	U	19.0	89.9	ug/Kg	100	11/7/2012 16:34
Bromodichloromethane	ND	U	9.89	89.9	ug/Kg	100	11/7/2012 16:34
Bromoform	ND	U	8.76	89.9	ug/Kg	100	11/7/2012 16:34
Bromomethane	ND	U	21.3	89.9	ug/Kg	100	11/7/2012 16:34
n-Butylbenzene	ND	U	6.92	89.9	ug/Kg	100	11/7/2012 16:34
Carbon disulfide	ND	U	9.53	89.9	ug/Kg	100	11/7/2012 16:34
Carbon tetrachloride	ND	U	9.08	89.9	ug/Kg	100	11/7/2012 16:34
Chlorobenzene	ND	U	10.4	89.9	ug/Kg	100	11/7/2012 16:34
Chloroethane	ND	U	28.0	89.9	ug/Kg	100	11/7/2012 16:34
Chloroform	ND	U	12.5	89.9	ug/Kg	100	11/7/2012 16:34
Chloromethane	ND	U	40.3	89.9	ug/Kg	100	11/7/2012 16:34
Dibromochloromethane	ND	U	12.1	89.9	ug/Kg	100	11/7/2012 16:34
Dibromomethane	ND	U	15.1	89.9	ug/Kg	100	11/7/2012 16:34

Print Date: 11/28/2012

N.C. Certification # 481

Results of **East Trench Bedding-SW**

Client Sample ID: **East Trench Bedding-SW**
Client Project ID: **2012.0009**
Lab Sample ID: 31203610004-D
Lab Project ID: 31203610

Collection Date: 10/31/2012 12:00
Received Date: 11/02/2012 14:00
Matrix: Soil-Solid as dry weight
Solids (%): 80.60

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
Dichlorodifluoromethane	ND	U	15.4	450	ug/Kg	100	11/7/2012 16:34
cis-1,3-Dichloropropene	ND	U	6.90	89.9	ug/Kg	100	11/7/2012 16:34
trans-1,3-Dichloropropene	ND	U	7.75	89.9	ug/Kg	100	11/7/2012 16:34
Diisopropyl Ether	ND	U	26.4	89.9	ug/Kg	100	11/7/2012 16:34
Ethyl Benzene	ND	U	7.89	89.9	ug/Kg	100	11/7/2012 16:34
Hexachlorobutadiene	ND	U	7.12	89.9	ug/Kg	100	11/7/2012 16:34
Isopropylbenzene (Cumene)	ND	U	7.81	89.9	ug/Kg	100	11/7/2012 16:34
Methyl iodide	ND	U	10.3	89.9	ug/Kg	100	11/7/2012 16:34
Methylene chloride	ND	U	13.7	450	ug/Kg	100	11/7/2012 16:34
Naphthalene	ND	U	7.69	89.9	ug/Kg	100	11/7/2012 16:34
Styrene	ND	U	9.17	89.9	ug/Kg	100	11/7/2012 16:34
Tetrachloroethene	**3580**		13.9	89.9	ug/Kg	100	11/7/2012 16:34
Toluene	ND	U	12.0	89.9	ug/Kg	100	11/7/2012 16:34
Trichloroethene	**104**		11.2	89.9	ug/Kg	100	11/7/2012 16:34
Trichlorofluoromethane	ND	U	12.3	89.9	ug/Kg	100	11/7/2012 16:34
Vinyl chloride	ND	U	11.2	89.9	ug/Kg	100	11/7/2012 16:34
Xylene (total)	ND	U	16.4	180	ug/Kg	100	11/7/2012 16:34
cis-1,2-Dichloroethene	**33.3**	J	12.2	89.9	ug/Kg	100	11/7/2012 16:34
m,p-Xylene	ND	U	16.4	180	ug/Kg	100	11/7/2012 16:34
n-Propylbenzene	ND	U	10.2	89.9	ug/Kg	100	11/7/2012 16:34
o-Xylene	ND	U	7.86	89.9	ug/Kg	100	11/7/2012 16:34
sec-Butylbenzene	ND	U	10.1	89.9	ug/Kg	100	11/7/2012 16:34
tert-Butyl methyl ether (MTBE)	ND	U	13.0	89.9	ug/Kg	100	11/7/2012 16:34
tert-Butylbenzene	ND	U	7.69	89.9	ug/Kg	100	11/7/2012 16:34
trans-1,2-Dichloroethene	ND	U	20.1	89.9	ug/Kg	100	11/7/2012 16:34
trans-1,4-Dichloro-2-butene	ND	U	37.2	450	ug/Kg	100	11/7/2012 16:34
Surrogates							
1,2-Dichloroethane-d4	99.0			55.0-173	%	100	11/7/2012 16:34
4-Bromofluorobenzene	91.0			23.0-141	%	100	11/7/2012 16:34
Toluene d8	101			57.0-134	%	100	11/7/2012 16:34

Batch Information

Analytical Batch: **VMS2720**
Analytical Method: **SW-846 8260B**
Instrument: **MSD8**
Analyst: **DVO**

Prep Batch: **VXX4308**
Prep Method: **SW-846 5035 SM**
Prep Date/Time: **11/06/2012 11:24**
Prep Initial Wt./Vol.: **6.9 g**
Prep Extract Vol: **5 mL**

Print Date: 11/28/2012

N.C. Certification # 481

Results of **West Trench Bedding-SW**

Client Sample ID: **West Trench Bedding-SW**
Client Project ID: **2012.0009**
Lab Sample ID: 31203610005-D
Lab Project ID: 31203610

Collection Date: 10/31/2012 13:45
Received Date: 11/02/2012 14:00
Matrix: Soil-Solid as dry weight
Solids (%): 82.00

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	U	9.41	90.5	ug/Kg	100	11/7/2012 16:59
1,1,1-Trichloroethane	**54.3**	J	11.1	90.5	ug/Kg	100	11/7/2012 16:59
1,1,2,2-Tetrachloroethane	ND	U	14.1	90.5	ug/Kg	100	11/7/2012 16:59
1,1,2-Trichloroethane	ND	U	11.4	90.5	ug/Kg	100	11/7/2012 16:59
1,1-Dichloroethane	ND	U	14.9	90.5	ug/Kg	100	11/7/2012 16:59
1,1-Dichloroethene	ND	U	19.2	90.5	ug/Kg	100	11/7/2012 16:59
1,1-Dichloropropene	ND	U	7.81	90.5	ug/Kg	100	11/7/2012 16:59
1,2,3-Trichlorobenzene	ND	U	9.95	90.5	ug/Kg	100	11/7/2012 16:59
1,2,3-Trichloropropane	ND	U	19.2	90.5	ug/Kg	100	11/7/2012 16:59
1,2,4-Trichlorobenzene	ND	U	8.26	90.5	ug/Kg	100	11/7/2012 16:59
1,2,4-Trimethylbenzene	ND	U	8.70	90.5	ug/Kg	100	11/7/2012 16:59
1,2-Dibromo-3-chloropropane	ND	U	67.7	452	ug/Kg	100	11/7/2012 16:59
1,2-Dibromoethane	ND	U	10.9	90.5	ug/Kg	100	11/7/2012 16:59
1,2-Dichlorobenzene	ND	U	12.4	90.5	ug/Kg	100	11/7/2012 16:59
1,2-Dichloroethane	ND	U	15.1	90.5	ug/Kg	100	11/7/2012 16:59
1,2-Dichloropropane	ND	U	14.7	90.5	ug/Kg	100	11/7/2012 16:59
1,3,5-Trimethylbenzene	ND	U	10.2	90.5	ug/Kg	100	11/7/2012 16:59
1,3-Dichlorobenzene	ND	U	9.32	90.5	ug/Kg	100	11/7/2012 16:59
1,3-Dichloropropane	ND	U	11.8	90.5	ug/Kg	100	11/7/2012 16:59
1,4-Dichlorobenzene	ND	U	11.8	90.5	ug/Kg	100	11/7/2012 16:59
2,2-Dichloropropane	ND	U	35.6	90.5	ug/Kg	100	11/7/2012 16:59
2-Butanone	ND	U	65.4	2260	ug/Kg	100	11/7/2012 16:59
2-Chlorotoluene	ND	U	10.2	90.5	ug/Kg	100	11/7/2012 16:59
2-Hexanone	ND	U	65.9	452	ug/Kg	100	11/7/2012 16:59
4-Chlorotoluene	ND	U	11.3	90.5	ug/Kg	100	11/7/2012 16:59
4-Isopropyltoluene	ND	U	6.96	90.5	ug/Kg	100	11/7/2012 16:59
4-Methyl-2-pentanone	ND	U	50.5	452	ug/Kg	100	11/7/2012 16:59
Acetone	ND	U	78.2	2260	ug/Kg	100	11/7/2012 16:59
Benzene	ND	U	10.2	90.5	ug/Kg	100	11/7/2012 16:59
Bromobenzene	ND	U	9.95	90.5	ug/Kg	100	11/7/2012 16:59
Bromochloromethane	ND	U	19.1	90.5	ug/Kg	100	11/7/2012 16:59
Bromodichloromethane	ND	U	9.95	90.5	ug/Kg	100	11/7/2012 16:59
Bromoform	ND	U	8.81	90.5	ug/Kg	100	11/7/2012 16:59
Bromomethane	ND	U	21.4	90.5	ug/Kg	100	11/7/2012 16:59
n-Butylbenzene	ND	U	6.96	90.5	ug/Kg	100	11/7/2012 16:59
Carbon disulfide	ND	U	9.59	90.5	ug/Kg	100	11/7/2012 16:59
Carbon tetrachloride	ND	U	9.14	90.5	ug/Kg	100	11/7/2012 16:59
Chlorobenzene	ND	U	10.5	90.5	ug/Kg	100	11/7/2012 16:59
Chloroethane	ND	U	28.1	90.5	ug/Kg	100	11/7/2012 16:59
Chloroform	ND	U	12.6	90.5	ug/Kg	100	11/7/2012 16:59
Chloromethane	ND	U	40.5	90.5	ug/Kg	100	11/7/2012 16:59
Dibromochloromethane	ND	U	12.1	90.5	ug/Kg	100	11/7/2012 16:59
Dibromomethane	ND	U	15.2	90.5	ug/Kg	100	11/7/2012 16:59

Print Date: 11/28/2012

N.C. Certification # 481

Results of **West Trench Bedding-SW**

Client Sample ID: **West Trench Bedding-SW**
Client Project ID: **2012.0009**
Lab Sample ID: 31203610005-D
Lab Project ID: 31203610

Collection Date: 10/31/2012 13:45
Received Date: 11/02/2012 14:00
Matrix: Soil-Solid as dry weight
Solids (%): 82.00

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
Dichlorodifluoromethane	ND	U	15.5	452	ug/Kg	100	11/7/2012 16:59
cis-1,3-Dichloropropene	ND	U	6.94	90.5	ug/Kg	100	11/7/2012 16:59
trans-1,3-Dichloropropene	ND	U	7.80	90.5	ug/Kg	100	11/7/2012 16:59
Diisopropyl Ether	ND	U	26.6	90.5	ug/Kg	100	11/7/2012 16:59
Ethyl Benzene	ND	U	7.94	90.5	ug/Kg	100	11/7/2012 16:59
Hexachlorobutadiene	ND	U	7.17	90.5	ug/Kg	100	11/7/2012 16:59
Isopropylbenzene (Cumene)	ND	U	7.86	90.5	ug/Kg	100	11/7/2012 16:59
Methyl iodide	ND	U	10.4	90.5	ug/Kg	100	11/7/2012 16:59
Methylene chloride	ND	U	13.8	452	ug/Kg	100	11/7/2012 16:59
Naphthalene	ND	U	7.74	90.5	ug/Kg	100	11/7/2012 16:59
Styrene	ND	U	9.23	90.5	ug/Kg	100	11/7/2012 16:59
Tetrachloroethene	**2530**		14.0	90.5	ug/Kg	100	11/7/2012 16:59
Toluene	ND	U	12.0	90.5	ug/Kg	100	11/7/2012 16:59
Trichloroethene	**101**		11.3	90.5	ug/Kg	100	11/7/2012 16:59
Trichlorofluoromethane	ND	U	12.4	90.5	ug/Kg	100	11/7/2012 16:59
Vinyl chloride	ND	U	11.2	90.5	ug/Kg	100	11/7/2012 16:59
Xylene (total)	ND	U	16.5	181	ug/Kg	100	11/7/2012 16:59
cis-1,2-Dichloroethene	**79.6**	J	12.3	90.5	ug/Kg	100	11/7/2012 16:59
m,p-Xylene	ND	U	16.5	181	ug/Kg	100	11/7/2012 16:59
n-Propylbenzene	ND	U	10.2	90.5	ug/Kg	100	11/7/2012 16:59
o-Xylene	ND	U	7.91	90.5	ug/Kg	100	11/7/2012 16:59
sec-Butylbenzene	ND	U	10.1	90.5	ug/Kg	100	11/7/2012 16:59
tert-Butyl methyl ether (MTBE)	ND	U	13.0	90.5	ug/Kg	100	11/7/2012 16:59
tert-Butylbenzene	ND	U	7.74	90.5	ug/Kg	100	11/7/2012 16:59
trans-1,2-Dichloroethene	ND	U	20.2	90.5	ug/Kg	100	11/7/2012 16:59
trans-1,4-Dichloro-2-butene	ND	U	37.5	452	ug/Kg	100	11/7/2012 16:59
Surrogates							
1,2-Dichloroethane-d4	110			55.0-173	%	100	11/7/2012 16:59
4-Bromofluorobenzene	96.0			23.0-141	%	100	11/7/2012 16:59
Toluene d8	110			57.0-134	%	100	11/7/2012 16:59

Batch Information

Analytical Batch: **VMS2720**
Analytical Method: **SW-846 8260B**
Instrument: **MSD8**
Analyst: **DVO**

Prep Batch: **VXX4308**
Prep Method: **SW-846 5035 SM**
Prep Date/Time: **11/06/2012 11:25**
Prep Initial Wt./Vol.: **6.74 g**
Prep Extract Vol: **5 mL**

Print Date: 11/28/2012

N.C. Certification # 481

Results of **West Trench Water-SW**

Client Sample ID: **West Trench Water-SW**
Client Project ID: **2012.0009**
Lab Sample ID: 31203610006-A
Lab Project ID: 31203610

Collection Date: 10/31/2012 14:05
Received Date: 11/02/2012 14:00
Matrix: Water

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	U	0.175	1.00	ug/L	1	11/6/2012 12:55
1,1,1-Trichloroethane	**2.20**		0.221	1.00	ug/L	1	11/6/2012 12:55
1,1,2,2-Tetrachloroethane	ND	U	0.223	1.00	ug/L	1	11/6/2012 12:55
1,1,2-Trichloroethane	ND	U	0.216	1.00	ug/L	1	11/6/2012 12:55
1,1-Dichloroethane	**0.510**	J	0.162	1.00	ug/L	1	11/6/2012 12:55
1,1-Dichloroethene	**0.480**	J	0.202	1.00	ug/L	1	11/6/2012 12:55
1,1-Dichloropropene	ND	U	0.176	1.00	ug/L	1	11/6/2012 12:55
1,2,3-Trichlorobenzene	ND	U	0.246	1.00	ug/L	1	11/6/2012 12:55
1,2,3-Trichloropropane	ND	U	0.210	1.00	ug/L	1	11/6/2012 12:55
1,2,4-Trichlorobenzene	ND	U	0.220	1.00	ug/L	1	11/6/2012 12:55
1,2,4-Trimethylbenzene	ND	U	0.179	1.00	ug/L	1	11/6/2012 12:55
1,2-Dibromo-3-chloropropane	ND	U	1.88	5.00	ug/L	1	11/6/2012 12:55
1,2-Dibromoethane	ND	U	0.179	1.00	ug/L	1	11/6/2012 12:55
1,2-Dichlorobenzene	ND	U	0.214	1.00	ug/L	1	11/6/2012 12:55
1,2-Dichloroethane	ND	U	0.139	1.00	ug/L	1	11/6/2012 12:55
1,2-Dichloropropane	ND	U	0.158	1.00	ug/L	1	11/6/2012 12:55
1,3,5-Trimethylbenzene	ND	U	0.159	1.00	ug/L	1	11/6/2012 12:55
1,3-Dichlorobenzene	ND	U	0.180	1.00	ug/L	1	11/6/2012 12:55
1,3-Dichloropropane	ND	U	0.198	1.00	ug/L	1	11/6/2012 12:55
1,4-Dichlorobenzene	ND	U	0.243	1.00	ug/L	1	11/6/2012 12:55
2,2-Dichloropropane	ND	U	0.194	1.00	ug/L	1	11/6/2012 12:55
2-Butanone	ND	U	1.39	25.0	ug/L	1	11/6/2012 12:55
2-Chlorotoluene	ND	U	0.160	1.00	ug/L	1	11/6/2012 12:55
2-Hexanone	ND	U	1.39	5.00	ug/L	1	11/6/2012 12:55
4-Chlorotoluene	ND	U	0.259	1.00	ug/L	1	11/6/2012 12:55
4-Isopropyltoluene	ND	U	0.170	1.00	ug/L	1	11/6/2012 12:55
4-Methyl-2-pentanone	ND	U	1.15	5.00	ug/L	1	11/6/2012 12:55
Acetone	ND	U	2.56	25.0	ug/L	1	11/7/2012 19:05
Benzene	ND	U	0.156	1.00	ug/L	1	11/6/2012 12:55
Bromobenzene	ND	U	0.205	1.00	ug/L	1	11/6/2012 12:55
Bromochloromethane	ND	U	0.134	1.00	ug/L	1	11/6/2012 12:55
Bromodichloromethane	ND	U	0.222	1.00	ug/L	1	11/6/2012 12:55
Bromoform	ND	U	0.208	1.00	ug/L	1	11/6/2012 12:55
Bromomethane	ND	U	0.507	1.00	ug/L	1	11/6/2012 12:55
n-Butylbenzene	ND	U	0.168	1.00	ug/L	1	11/6/2012 12:55
Carbon disulfide	ND	U	0.197	1.00	ug/L	1	11/6/2012 12:55
Carbon tetrachloride	ND	U	0.169	1.00	ug/L	1	11/6/2012 12:55
Chlorobenzene	ND	U	0.158	1.00	ug/L	1	11/6/2012 12:55
Chloroethane	ND	U	0.902	1.00	ug/L	1	11/6/2012 12:55
Chloroform	ND	U	0.205	1.00	ug/L	1	11/6/2012 12:55
Chloromethane	ND	U	0.295	1.00	ug/L	1	11/6/2012 12:55
Dibromochloromethane	ND	U	0.173	1.00	ug/L	1	11/6/2012 12:55
Dibromomethane	ND	U	0.171	1.00	ug/L	1	11/6/2012 12:55

Print Date: 11/28/2012

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Results of **West Trench Water-SW**

Client Sample ID: **West Trench Water-SW**
Client Project ID: **2012.0009**
Lab Sample ID: 31203610006-A
Lab Project ID: 31203610

Collection Date: 10/31/2012 14:05
Received Date: 11/02/2012 14:00
Matrix: Water

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
Dichlorodifluoromethane	ND	U	0.283	5.00	ug/L	1	11/6/2012 12:55
cis-1,3-Dichloropropene	ND	U	0.185	1.00	ug/L	1	11/6/2012 12:55
trans-1,3-Dichloropropene	ND	U	0.167	1.00	ug/L	1	11/6/2012 12:55
Diisopropyl Ether	ND	U	0.134	1.00	ug/L	1	11/6/2012 12:55
Ethyl Benzene	ND	U	0.186	1.00	ug/L	1	11/6/2012 12:55
Hexachlorobutadiene	ND	U	0.365	1.00	ug/L	1	11/6/2012 12:55
Isopropylbenzene (Cumene)	ND	U	0.196	1.00	ug/L	1	11/6/2012 12:55
Methyl iodide	ND	U	0.247	1.00	ug/L	1	11/6/2012 12:55
Methylene chloride	ND	U	0.199	5.00	ug/L	1	11/6/2012 12:55
Naphthalene	ND	U	0.260	1.00	ug/L	1	11/6/2012 12:55
Styrene	ND	U	0.207	1.00	ug/L	1	11/6/2012 12:55
Tetrachloroethene	**15.9**		0.225	1.00	ug/L	1	11/6/2012 12:55
Toluene	**0.180**	J	0.180	1.00	ug/L	1	11/6/2012 12:55
Trichloroethene	**3.21**		0.199	1.00	ug/L	1	11/6/2012 12:55
Trichlorofluoromethane	ND	U	0.308	1.00	ug/L	1	11/6/2012 12:55
Vinyl chloride	ND	U	0.386	1.00	ug/L	1	11/6/2012 12:55
Xylene (total)	ND	U	0.602	2.00	ug/L	1	11/6/2012 12:55
cis-1,2-Dichloroethene	**3.78**		0.179	1.00	ug/L	1	11/6/2012 12:55
m,p-Xylene	ND	U	0.407	2.00	ug/L	1	11/6/2012 12:55
n-Propylbenzene	ND	U	0.185	1.00	ug/L	1	11/6/2012 12:55
o-Xylene	ND	U	0.195	1.00	ug/L	1	11/6/2012 12:55
sec-Butylbenzene	ND	U	0.151	1.00	ug/L	1	11/6/2012 12:55
tert-Butyl methyl ether (MTBE)	ND	U	0.195	1.00	ug/L	1	11/6/2012 12:55
tert-Butylbenzene	ND	U	0.239	1.00	ug/L	1	11/6/2012 12:55
trans-1,2-Dichloroethene	ND	U	0.247	1.00	ug/L	1	11/6/2012 12:55
trans-1,4-Dichloro-2-butene	ND	U	1.25	5.00	ug/L	1	11/6/2012 12:55
Surrogates							
1,2-Dichloroethane-d4	92.0			64.0-140	%	1	11/6/2012 12:55
4-Bromofluorobenzene	105			85.0-115	%	1	11/6/2012 12:55
Toluene d8	107			82.0-117	%	1	11/6/2012 12:55

Print Date: 11/28/2012

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Results of **West Trench Water-SW**

Client Sample ID: **West Trench Water-SW**
Client Project ID: **2012.0009**
Lab Sample ID: 31203610006-A
Lab Project ID: 31203610

Collection Date: 10/31/2012 14:05
Received Date: 11/02/2012 14:00
Matrix: Water

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed

Batch Information

Analytical Batch: **VMS2714**
Analytical Method: **SW-846 8260B**
Instrument: **MSD3**
Analyst: **DVO**

Prep Batch: **VXX4285**
Prep Method: **SW-846 5030B**
Prep Date/Time: **11/06/2012 08:00**
Prep Initial Wt./Vol.: **40 mL**
Prep Extract Vol: **40 mL**

Analytical Batch: **VMS2721**
Analytical Method: **SW-846 8260B**
Instrument: **MSD3**
Analyst: **DVO**

Prep Batch: **VXX4298**
Prep Method: **SW-846 5030B**
Prep Date/Time: **11/07/2012 08:00**
Prep Initial Wt./Vol.: **40 mL**
Prep Extract Vol: **40 mL**

Print Date: 11/28/2012

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Results of **West Trench Bedding-SS**

Client Sample ID: **West Trench Bedding-SS**
Client Project ID: **2012.0009**
Lab Sample ID: 31203610007-D
Lab Project ID: 31203610

Collection Date: 10/31/2012 14:35
Received Date: 11/02/2012 14:00
Matrix: Soil-Solid as dry weight
Solids (%): 73.80

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	U	23.7	227	ug/Kg	200	11/7/2012 18:12
1,1,1-Trichloroethane	**130**	J	28.0	227	ug/Kg	200	11/7/2012 18:12
1,1,2,2-Tetrachloroethane	ND	U	35.5	227	ug/Kg	200	11/7/2012 18:12
1,1,2-Trichloroethane	ND	U	28.7	227	ug/Kg	200	11/7/2012 18:12
1,1-Dichloroethane	ND	U	37.5	227	ug/Kg	200	11/7/2012 18:12
1,1-Dichloroethene	ND	U	48.2	227	ug/Kg	200	11/7/2012 18:12
1,1-Dichloropropene	ND	U	19.6	227	ug/Kg	200	11/7/2012 18:12
1,2,3-Trichlorobenzene	ND	U	25.0	227	ug/Kg	200	11/7/2012 18:12
1,2,3-Trichloropropane	ND	U	48.2	227	ug/Kg	200	11/7/2012 18:12
1,2,4-Trichlorobenzene	ND	U	20.8	227	ug/Kg	200	11/7/2012 18:12
1,2,4-Trimethylbenzene	ND	U	21.9	227	ug/Kg	200	11/7/2012 18:12
1,2-Dibromo-3-chloropropane	ND	U	170	1140	ug/Kg	200	11/7/2012 18:12
1,2-Dibromoethane	ND	U	27.3	227	ug/Kg	200	11/7/2012 18:12
1,2-Dichlorobenzene	ND	U	31.2	227	ug/Kg	200	11/7/2012 18:12
1,2-Dichloroethane	ND	U	38.0	227	ug/Kg	200	11/7/2012 18:12
1,2-Dichloropropane	ND	U	37.1	227	ug/Kg	200	11/7/2012 18:12
1,3,5-Trimethylbenzene	ND	U	25.7	227	ug/Kg	200	11/7/2012 18:12
1,3-Dichlorobenzene	ND	U	23.4	227	ug/Kg	200	11/7/2012 18:12
1,3-Dichloropropane	ND	U	29.6	227	ug/Kg	200	11/7/2012 18:12
1,4-Dichlorobenzene	ND	U	29.6	227	ug/Kg	200	11/7/2012 18:12
2,2-Dichloropropane	ND	U	89.4	227	ug/Kg	200	11/7/2012 18:12
2-Butanone	ND	U	164	5690	ug/Kg	200	11/7/2012 18:12
2-Chlorotoluene	ND	U	25.7	227	ug/Kg	200	11/7/2012 18:12
2-Hexanone	ND	U	166	1140	ug/Kg	200	11/7/2012 18:12
4-Chlorotoluene	ND	U	28.4	227	ug/Kg	200	11/7/2012 18:12
4-Isopropyltoluene	ND	U	17.5	227	ug/Kg	200	11/7/2012 18:12
4-Methyl-2-pentanone	ND	U	127	1140	ug/Kg	200	11/7/2012 18:12
Acetone	ND	U	197	5690	ug/Kg	200	11/7/2012 18:12
Benzene	ND	U	25.7	227	ug/Kg	200	11/7/2012 18:12
Bromobenzene	ND	U	25.0	227	ug/Kg	200	11/7/2012 18:12
Bromochloromethane	ND	U	48.0	227	ug/Kg	200	11/7/2012 18:12
Bromodichloromethane	ND	U	25.0	227	ug/Kg	200	11/7/2012 18:12
Bromoform	ND	U	22.2	227	ug/Kg	200	11/7/2012 18:12
Bromomethane	ND	U	53.9	227	ug/Kg	200	11/7/2012 18:12
n-Butylbenzene	ND	U	17.5	227	ug/Kg	200	11/7/2012 18:12
Carbon disulfide	ND	U	24.1	227	ug/Kg	200	11/7/2012 18:12
Carbon tetrachloride	ND	U	23.0	227	ug/Kg	200	11/7/2012 18:12
Chlorobenzene	ND	U	26.4	227	ug/Kg	200	11/7/2012 18:12
Chloroethane	ND	U	70.7	227	ug/Kg	200	11/7/2012 18:12
Chloroform	ND	U	31.6	227	ug/Kg	200	11/7/2012 18:12
Chloromethane	ND	U	102	227	ug/Kg	200	11/7/2012 18:12
Dibromochloromethane	ND	U	30.5	227	ug/Kg	200	11/7/2012 18:12
Dibromomethane	ND	U	38.2	227	ug/Kg	200	11/7/2012 18:12

Print Date: 11/28/2012

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Results of **West Trench Bedding-SS**

Client Sample ID: **West Trench Bedding-SS**
Client Project ID: **2012.0009**
Lab Sample ID: 31203610007-D
Lab Project ID: 31203610

Collection Date: 10/31/2012 14:35
Received Date: 11/02/2012 14:00
Matrix: Soil-Solid as dry weight
Solids (%): 73.80

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
Dichlorodifluoromethane	ND	U	38.9	1140	ug/Kg	200	11/7/2012 18:12
cis-1,3-Dichloropropene	ND	U	17.4	227	ug/Kg	200	11/7/2012 18:12
trans-1,3-Dichloropropene	ND	U	19.6	227	ug/Kg	200	11/7/2012 18:12
Diisopropyl Ether	ND	U	66.9	227	ug/Kg	200	11/7/2012 18:12
Ethyl Benzene	ND	U	19.9	227	ug/Kg	200	11/7/2012 18:12
Hexachlorobutadiene	ND	U	18.0	227	ug/Kg	200	11/7/2012 18:12
Isopropylbenzene (Cumene)	ND	U	19.8	227	ug/Kg	200	11/7/2012 18:12
Methyl iodide	ND	U	26.2	227	ug/Kg	200	11/7/2012 18:12
Methylene chloride	ND	U	34.6	1140	ug/Kg	200	11/7/2012 18:12
Naphthalene	ND	U	19.4	227	ug/Kg	200	11/7/2012 18:12
Styrene	ND	U	23.2	227	ug/Kg	200	11/7/2012 18:12
Tetrachloroethene	**9730**		35.3	227	ug/Kg	200	11/7/2012 18:12
Toluene	ND	U	30.3	227	ug/Kg	200	11/7/2012 18:12
Trichloroethene	**255**		28.4	227	ug/Kg	200	11/7/2012 18:12
Trichlorofluoromethane	ND	U	31.2	227	ug/Kg	200	11/7/2012 18:12
Vinyl chloride	ND	U	28.2	227	ug/Kg	200	11/7/2012 18:12
Xylene (total)	ND	U	41.4	455	ug/Kg	200	11/7/2012 18:12
cis-1,2-Dichloroethene	ND	U	30.9	227	ug/Kg	200	11/7/2012 18:12
m,p-Xylene	ND	U	41.4	455	ug/Kg	200	11/7/2012 18:12
n-Propylbenzene	ND	U	25.7	227	ug/Kg	200	11/7/2012 18:12
o-Xylene	ND	U	19.9	227	ug/Kg	200	11/7/2012 18:12
sec-Butylbenzene	ND	U	25.5	227	ug/Kg	200	11/7/2012 18:12
tert-Butyl methyl ether (MTBE)	ND	U	32.8	227	ug/Kg	200	11/7/2012 18:12
tert-Butylbenzene	ND	U	19.4	227	ug/Kg	200	11/7/2012 18:12
trans-1,2-Dichloroethene	ND	U	50.7	227	ug/Kg	200	11/7/2012 18:12
trans-1,4-Dichloro-2-butene	ND	U	94.2	1140	ug/Kg	200	11/7/2012 18:12
Surrogates							
1,2-Dichloroethane-d4	107			55.0-173	%	200	11/7/2012 18:12
4-Bromofluorobenzene	98.0			23.0-141	%	200	11/7/2012 18:12
Toluene d8	108			57.0-134	%	200	11/7/2012 18:12

Batch Information

Analytical Batch: **VMS2720**
Analytical Method: **SW-846 8260B**
Instrument: **MSD8**
Analyst: **DVO**

Prep Batch: **VXX4308**
Prep Method: **SW-846 5035 SM**
Prep Date/Time: **11/06/2012 11:26**
Prep Initial Wt./Vol.: **5.96 g**
Prep Extract Vol: **5 mL**

Print Date: 11/28/2012

N.C. Certification # 481

Results of **IDW-Box 1**

Client Sample ID: **IDW-Box 1**
Client Project ID: **2012.0009**
Lab Sample ID: 31203610008-A
Lab Project ID: 31203610

Collection Date: 10/31/2012 15:30
Received Date: 11/02/2012 14:00
Matrix: Soil-Solid as dry weight
Solids (%): 77.90

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	U	0.541	5.50	ug/Kg	1	11/8/2012 16:15
1,1,1-Trichloroethane	**4.05**	J	0.464	5.50	ug/Kg	1	11/8/2012 16:15
1,1,2,2-Tetrachloroethane	ND	U	0.902	5.50	ug/Kg	1	11/8/2012 16:15
1,1,2-Trichloroethane	ND	U	0.667	5.50	ug/Kg	1	11/8/2012 16:15
1,1-Dichloroethane	ND	U	0.647	5.50	ug/Kg	1	11/8/2012 16:15
1,1-Dichloroethene	ND	U	3.28	5.50	ug/Kg	1	11/8/2012 16:15
1,1-Dichloropropene	ND	U	0.528	5.50	ug/Kg	1	11/8/2012 16:15
1,2,3-Trichlorobenzene	ND	U	0.458	5.50	ug/Kg	1	11/8/2012 16:15
1,2,3-Trichloropropane	ND	U	0.683	5.50	ug/Kg	1	11/8/2012 16:15
1,2,4-Trichlorobenzene	ND	U	0.449	5.50	ug/Kg	1	11/8/2012 16:15
1,2,4-Trimethylbenzene	ND	U	0.529	5.50	ug/Kg	1	11/8/2012 16:15
1,2-Dibromo-3-chloropropane	ND	U	7.02	33.0	ug/Kg	1	11/8/2012 16:15
1,2-Dibromoethane	ND	U	0.616	5.50	ug/Kg	1	11/8/2012 16:15
1,2-Dichlorobenzene	ND	U	0.731	5.50	ug/Kg	1	11/8/2012 16:15
1,2-Dichloroethane	ND	U	0.901	5.50	ug/Kg	1	11/8/2012 16:15
1,2-Dichloropropane	ND	U	0.506	5.50	ug/Kg	1	11/8/2012 16:15
1,3,5-Trimethylbenzene	ND	U	0.899	5.50	ug/Kg	1	11/8/2012 16:15
1,3-Dichlorobenzene	ND	U	0.418	5.50	ug/Kg	1	11/8/2012 16:15
1,3-Dichloropropane	ND	U	0.746	5.50	ug/Kg	1	11/8/2012 16:15
1,4-Dichlorobenzene	ND	U	0.540	5.50	ug/Kg	1	11/8/2012 16:15
2,2-Dichloropropane	ND	U	0.525	5.50	ug/Kg	1	11/8/2012 16:15
2-Butanone	ND	U	2.95	27.5	ug/Kg	1	11/8/2012 16:15
2-Chlorotoluene	ND	U	0.756	5.50	ug/Kg	1	11/8/2012 16:15
2-Hexanone	ND	U	3.09	13.8	ug/Kg	1	11/8/2012 16:15
4-Chlorotoluene	ND	U	0.527	5.50	ug/Kg	1	11/8/2012 16:15
4-Isopropyltoluene	ND	U	0.619	5.50	ug/Kg	1	11/8/2012 16:15
4-Methyl-2-pentanone	ND	U	2.28	13.8	ug/Kg	1	11/8/2012 16:15
Acetone	**30.1**	J	4.12	55.0	ug/Kg	1	11/8/2012 16:15
Benzene	ND	U	0.427	5.50	ug/Kg	1	11/8/2012 16:15
Bromobenzene	ND	U	1.03	5.50	ug/Kg	1	11/8/2012 16:15
Bromochloromethane	ND	U	1.62	5.50	ug/Kg	1	11/8/2012 16:15
Bromodichloromethane	ND	U	0.748	5.50	ug/Kg	1	11/8/2012 16:15
Bromoform	ND	U	2.52	5.50	ug/Kg	1	11/8/2012 16:15
Bromomethane	ND	U	1.88	5.50	ug/Kg	1	11/8/2012 16:15
n-Butylbenzene	ND	U	0.465	5.50	ug/Kg	1	11/8/2012 16:15
Carbon disulfide	ND	U	0.902	5.50	ug/Kg	1	11/8/2012 16:15
Carbon tetrachloride	ND	U	0.616	5.50	ug/Kg	1	11/8/2012 16:15
Chlorobenzene	ND	U	0.536	5.50	ug/Kg	1	11/8/2012 16:15
Chloroethane	ND	U	1.35	5.50	ug/Kg	1	11/8/2012 16:15
Chloroform	ND	U	0.567	5.50	ug/Kg	1	11/8/2012 16:15
Chloromethane	ND	U	0.711	5.50	ug/Kg	1	11/8/2012 16:15
Dibromochloromethane	ND	U	0.892	5.50	ug/Kg	1	11/8/2012 16:15
Dibromomethane	ND	U	0.638	5.50	ug/Kg	1	11/8/2012 16:15

Print Date: 11/28/2012

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Results of **IDW-Box 1**

Client Sample ID: **IDW-Box 1**
Client Project ID: **2012.0009**
Lab Sample ID: 31203610008-A
Lab Project ID: 31203610

Collection Date: 10/31/2012 15:30
Received Date: 11/02/2012 14:00
Matrix: Soil-Solid as dry weight
Solids (%): 77.90

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
Dichlorodifluoromethane	ND	U	0.824	5.50	ug/Kg	1	11/8/2012 16:15
cis-1,3-Dichloropropene	ND	U	0.551	5.50	ug/Kg	1	11/8/2012 16:15
trans-1,3-Dichloropropene	ND	U	0.586	5.50	ug/Kg	1	11/8/2012 16:15
Diisopropyl Ether	ND	U	0.749	5.50	ug/Kg	1	11/8/2012 16:15
Ethyl Benzene	ND	U	0.486	5.50	ug/Kg	1	11/8/2012 16:15
Hexachlorobutadiene	ND	U	0.651	5.50	ug/Kg	1	11/8/2012 16:15
Isopropylbenzene (Cumene)	ND	U	0.412	5.50	ug/Kg	1	11/8/2012 16:15
Methyl iodide	ND	U	0.591	5.50	ug/Kg	1	11/8/2012 16:15
Methylene chloride	**1.31**	J	0.995	22.0	ug/Kg	1	11/8/2012 16:15
Naphthalene	ND	U	0.695	5.50	ug/Kg	1	11/8/2012 16:15
Styrene	ND	U	0.586	5.50	ug/Kg	1	11/8/2012 16:15
Tetrachloroethene	**29.2**		0.638	5.50	ug/Kg	1	11/8/2012 16:15
Toluene	ND	U	0.764	5.50	ug/Kg	1	11/8/2012 16:15
Trichloroethene	**1.71**	J	0.707	5.50	ug/Kg	1	11/8/2012 16:15
Trichlorofluoromethane	ND	U	0.626	5.50	ug/Kg	1	11/8/2012 16:15
Vinyl chloride	ND	U	0.873	5.50	ug/Kg	1	11/8/2012 16:15
Xylene (total)	ND	U	1.95	11.0	ug/Kg	1	11/8/2012 16:15
cis-1,2-Dichloroethene	**0.869**	J	0.736	5.50	ug/Kg	1	11/8/2012 16:15
m,p-Xylene	ND	U	0.858	11.0	ug/Kg	1	11/8/2012 16:15
n-Propylbenzene	ND	U	0.534	5.50	ug/Kg	1	11/8/2012 16:15
o-Xylene	ND	U	0.785	5.50	ug/Kg	1	11/8/2012 16:15
sec-Butylbenzene	ND	U	0.535	5.50	ug/Kg	1	11/8/2012 16:15
tert-Butyl methyl ether (MTBE)	ND	U	0.758	5.50	ug/Kg	1	11/8/2012 16:15
tert-Butylbenzene	ND	U	0.432	5.50	ug/Kg	1	11/8/2012 16:15
trans-1,2-Dichloroethene	ND	U	0.847	5.50	ug/Kg	1	11/8/2012 16:15
trans-1,4-Dichloro-2-butene	ND	U	6.46	27.5	ug/Kg	1	11/8/2012 16:15
Surrogates							
1,2-Dichloroethane-d4	111			55.0-173	%	1	11/8/2012 16:15
4-Bromofluorobenzene	97.0			23.0-141	%	1	11/8/2012 16:15
Toluene d8	102			57.0-134	%	1	11/8/2012 16:15

Batch Information

Analytical Batch: **VMS2723**
Analytical Method: **SW-846 8260B**
Instrument: **MSD2**
Analyst: **DVO**

Prep Batch: **VXX4300**
Prep Method: **SW-846 5035 SL**
Prep Date/Time: **11/06/2012 11:28**
Prep Initial Wt./Vol.: **5.83 g**
Prep Extract Vol: **5 mL**

Print Date: 11/28/2012

N.C. Certification # 481

Results of **IDW-Box 2**

Client Sample ID: **IDW-Box 2**
Client Project ID: **2012.0009**
Lab Sample ID: 31203610009-D
Lab Project ID: 31203610

Collection Date: 10/31/2012 16:00
Received Date: 11/02/2012 14:00
Matrix: Soil-Solid as dry weight
Solids (%): 84.40

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	U	4.97	47.8	ug/Kg	50	11/7/2012 14:56
1,1,1-Trichloroethane	**44.4**	J	5.88	47.8	ug/Kg	50	11/7/2012 14:56
1,1,2,2-Tetrachloroethane	ND	U	7.46	47.8	ug/Kg	50	11/7/2012 14:56
1,1,2-Trichloroethane	ND	U	6.02	47.8	ug/Kg	50	11/7/2012 14:56
1,1-Dichloroethane	ND	U	7.89	47.8	ug/Kg	50	11/7/2012 14:56
1,1-Dichloroethene	**14.8**	J	10.1	47.8	ug/Kg	50	11/7/2012 14:56
1,1-Dichloropropene	ND	U	4.12	47.8	ug/Kg	50	11/7/2012 14:56
1,2,3-Trichlorobenzene	ND	U	5.26	47.8	ug/Kg	50	11/7/2012 14:56
1,2,3-Trichloropropane	ND	U	10.1	47.8	ug/Kg	50	11/7/2012 14:56
1,2,4-Trichlorobenzene	ND	U	4.36	47.8	ug/Kg	50	11/7/2012 14:56
1,2,4-Trimethylbenzene	ND	U	4.59	47.8	ug/Kg	50	11/7/2012 14:56
1,2-Dibromo-3-chloropropane	ND	U	35.7	239	ug/Kg	50	11/7/2012 14:56
1,2-Dibromoethane	ND	U	5.74	47.8	ug/Kg	50	11/7/2012 14:56
1,2-Dichlorobenzene	ND	U	6.55	47.8	ug/Kg	50	11/7/2012 14:56
1,2-Dichloroethane	ND	U	7.98	47.8	ug/Kg	50	11/7/2012 14:56
1,2-Dichloropropane	ND	U	7.79	47.8	ug/Kg	50	11/7/2012 14:56
1,3,5-Trimethylbenzene	ND	U	5.40	47.8	ug/Kg	50	11/7/2012 14:56
1,3-Dichlorobenzene	ND	U	4.92	47.8	ug/Kg	50	11/7/2012 14:56
1,3-Dichloropropane	ND	U	6.21	47.8	ug/Kg	50	11/7/2012 14:56
1,4-Dichlorobenzene	ND	U	6.21	47.8	ug/Kg	50	11/7/2012 14:56
2,2-Dichloropropane	ND	U	18.8	47.8	ug/Kg	50	11/7/2012 14:56
2-Butanone	ND	U	34.6	1190	ug/Kg	50	11/7/2012 14:56
2-Chlorotoluene	ND	U	5.40	47.8	ug/Kg	50	11/7/2012 14:56
2-Hexanone	ND	U	34.8	239	ug/Kg	50	11/7/2012 14:56
4-Chlorotoluene	ND	U	5.97	47.8	ug/Kg	50	11/7/2012 14:56
4-Isopropyltoluene	ND	U	3.68	47.8	ug/Kg	50	11/7/2012 14:56
4-Methyl-2-pentanone	ND	U	26.7	239	ug/Kg	50	11/7/2012 14:56
Acetone	ND	U	41.3	1190	ug/Kg	50	11/7/2012 14:56
Benzene	ND	U	5.40	47.8	ug/Kg	50	11/7/2012 14:56
Bromobenzene	ND	U	5.26	47.8	ug/Kg	50	11/7/2012 14:56
Bromochloromethane	ND	U	10.1	47.8	ug/Kg	50	11/7/2012 14:56
Bromodichloromethane	ND	U	5.26	47.8	ug/Kg	50	11/7/2012 14:56
Bromoform	ND	U	4.65	47.8	ug/Kg	50	11/7/2012 14:56
Bromomethane	ND	U	11.3	47.8	ug/Kg	50	11/7/2012 14:56
n-Butylbenzene	ND	U	3.68	47.8	ug/Kg	50	11/7/2012 14:56
Carbon disulfide	ND	U	5.07	47.8	ug/Kg	50	11/7/2012 14:56
Carbon tetrachloride	ND	U	4.83	47.8	ug/Kg	50	11/7/2012 14:56
Chlorobenzene	ND	U	5.54	47.8	ug/Kg	50	11/7/2012 14:56
Chloroethane	ND	U	14.9	47.8	ug/Kg	50	11/7/2012 14:56
Chloroform	ND	U	6.64	47.8	ug/Kg	50	11/7/2012 14:56
Chloromethane	ND	U	21.4	47.8	ug/Kg	50	11/7/2012 14:56
Dibromochloromethane	ND	U	6.40	47.8	ug/Kg	50	11/7/2012 14:56
Dibromomethane	ND	U	8.03	47.8	ug/Kg	50	11/7/2012 14:56

Print Date: 11/28/2012

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Results of **IDW-Box 2**

Client Sample ID: **IDW-Box 2**
Client Project ID: **2012.0009**
Lab Sample ID: 31203610009-D
Lab Project ID: 31203610

Collection Date: 10/31/2012 16:00
Received Date: 11/02/2012 14:00
Matrix: Soil-Solid as dry weight
Solids (%): 84.40

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
Dichlorodifluoromethane	ND	U	8.17	239	ug/Kg	50	11/7/2012 14:56
cis-1,3-Dichloropropene	ND	U	3.67	47.8	ug/Kg	50	11/7/2012 14:56
trans-1,3-Dichloropropene	ND	U	4.12	47.8	ug/Kg	50	11/7/2012 14:56
Diisopropyl Ether	ND	U	14.1	47.8	ug/Kg	50	11/7/2012 14:56
Ethyl Benzene	ND	U	4.19	47.8	ug/Kg	50	11/7/2012 14:56
Hexachlorobutadiene	ND	U	3.79	47.8	ug/Kg	50	11/7/2012 14:56
Isopropylbenzene (Cumene)	ND	U	4.15	47.8	ug/Kg	50	11/7/2012 14:56
Methyl iodide	ND	U	5.50	47.8	ug/Kg	50	11/7/2012 14:56
Methylene chloride	ND	U	7.26	239	ug/Kg	50	11/7/2012 14:56
Naphthalene	ND	U	4.09	47.8	ug/Kg	50	11/7/2012 14:56
Styrene	ND	U	4.87	47.8	ug/Kg	50	11/7/2012 14:56
Tetrachloroethene	**1050**		7.41	47.8	ug/Kg	50	11/7/2012 14:56
Toluene	ND	U	6.36	47.8	ug/Kg	50	11/7/2012 14:56
Trichloroethene	**38.7**	J	5.97	47.8	ug/Kg	50	11/7/2012 14:56
Trichlorofluoromethane	ND	U	6.55	47.8	ug/Kg	50	11/7/2012 14:56
Vinyl chloride	ND	U	5.93	47.8	ug/Kg	50	11/7/2012 14:56
Xylene (total)	ND	U	8.70	95.6	ug/Kg	50	11/7/2012 14:56
cis-1,2-Dichloroethene	**44.0**	J	6.50	47.8	ug/Kg	50	11/7/2012 14:56
m,p-Xylene	ND	U	8.70	95.6	ug/Kg	50	11/7/2012 14:56
n-Propylbenzene	ND	U	5.40	47.8	ug/Kg	50	11/7/2012 14:56
o-Xylene	ND	U	4.18	47.8	ug/Kg	50	11/7/2012 14:56
sec-Butylbenzene	ND	U	5.35	47.8	ug/Kg	50	11/7/2012 14:56
tert-Butyl methyl ether (MTBE)	ND	U	6.88	47.8	ug/Kg	50	11/7/2012 14:56
tert-Butylbenzene	ND	U	4.09	47.8	ug/Kg	50	11/7/2012 14:56
trans-1,2-Dichloroethene	ND	U	10.7	47.8	ug/Kg	50	11/7/2012 14:56
trans-1,4-Dichloro-2-butene	ND	U	19.8	239	ug/Kg	50	11/7/2012 14:56
Surrogates							
1,2-Dichloroethane-d4	98.0			55.0-173	%	50	11/7/2012 14:56
4-Bromofluorobenzene	95.0			23.0-141	%	50	11/7/2012 14:56
Toluene d8	100			57.0-134	%	50	11/7/2012 14:56

Batch Information

Analytical Batch: **VMS2720**
Analytical Method: **SW-846 8260B**
Instrument: **MSD8**
Analyst: **DVO**

Prep Batch: **VXX4308**
Prep Method: **SW-846 5035 SM**
Prep Date/Time: **11/06/2012 11:29**
Prep Initial Wt./Vol.: **6.2 g**
Prep Extract Vol: **5 mL**

Print Date: 11/28/2012

N.C. Certification # 481

Results of **IDW-Box 3**

Client Sample ID: **IDW-Box 3**
Client Project ID: **2012.0009**
Lab Sample ID: 31203610010-A
Lab Project ID: 31203610

Collection Date: 10/31/2012 16:15
Received Date: 11/02/2012 14:00
Matrix: Soil-Solid as dry weight
Solids (%): 93.10

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	U	0.757	5.34	ug/Kg	1	11/8/2012 14:08
1,1,1-Trichloroethane	ND	U	0.805	5.34	ug/Kg	1	11/8/2012 14:08
1,1,2,2-Tetrachloroethane	ND	U	1.25	5.34	ug/Kg	1	11/8/2012 14:08
1,1,2-Trichloroethane	ND	U	1.11	5.34	ug/Kg	1	11/8/2012 14:08
1,1-Dichloroethane	ND	U	0.574	5.34	ug/Kg	1	11/8/2012 14:08
1,1-Dichloroethene	ND	U	1.24	5.34	ug/Kg	1	11/8/2012 14:08
1,1-Dichloropropene	ND	U	0.721	5.34	ug/Kg	1	11/8/2012 14:08
1,2,3-Trichlorobenzene	ND	U	0.888	5.34	ug/Kg	1	11/8/2012 14:08
1,2,3-Trichloropropane	ND	U	1.10	5.34	ug/Kg	1	11/8/2012 14:08
1,2,4-Trichlorobenzene	ND	U	0.778	5.34	ug/Kg	1	11/8/2012 14:08
1,2,4-Trimethylbenzene	ND	U	0.680	5.34	ug/Kg	1	11/8/2012 14:08
1,2-Dibromo-3-chloropropane	ND	U	7.91	32.0	ug/Kg	1	11/8/2012 14:08
1,2-Dibromoethane	ND	U	1.40	5.34	ug/Kg	1	11/8/2012 14:08
1,2-Dichlorobenzene	ND	U	0.759	5.34	ug/Kg	1	11/8/2012 14:08
1,2-Dichloroethane	ND	U	0.974	5.34	ug/Kg	1	11/8/2012 14:08
1,2-Dichloropropane	ND	U	1.23	5.34	ug/Kg	1	11/8/2012 14:08
1,3,5-Trimethylbenzene	ND	U	0.649	5.34	ug/Kg	1	11/8/2012 14:08
1,3-Dichlorobenzene	ND	U	0.767	5.34	ug/Kg	1	11/8/2012 14:08
1,3-Dichloropropane	ND	U	0.938	5.34	ug/Kg	1	11/8/2012 14:08
1,4-Dichlorobenzene	ND	U	0.720	5.34	ug/Kg	1	11/8/2012 14:08
2,2-Dichloropropane	ND	U	0.788	5.34	ug/Kg	1	11/8/2012 14:08
2-Butanone	ND	U	3.61	26.7	ug/Kg	1	11/8/2012 14:08
2-Chlorotoluene	ND	U	1.00	5.34	ug/Kg	1	11/8/2012 14:08
2-Hexanone	ND	U	3.44	13.3	ug/Kg	1	11/8/2012 14:08
4-Chlorotoluene	ND	U	0.807	5.34	ug/Kg	1	11/8/2012 14:08
4-Isopropyltoluene	ND	U	0.688	5.34	ug/Kg	1	11/8/2012 14:08
4-Methyl-2-pentanone	ND	U	3.99	13.3	ug/Kg	1	11/8/2012 14:08
Acetone	ND	U	4.28	53.4	ug/Kg	1	11/8/2012 14:08
Benzene	ND	U	0.759	5.34	ug/Kg	1	11/8/2012 14:08
Bromobenzene	ND	U	0.744	5.34	ug/Kg	1	11/8/2012 14:08
Bromochloromethane	ND	U	1.00	5.34	ug/Kg	1	11/8/2012 14:08
Bromodichloromethane	ND	U	0.751	5.34	ug/Kg	1	11/8/2012 14:08
Bromoform	ND	U	0.773	5.34	ug/Kg	1	11/8/2012 14:08
Bromomethane	ND	U	1.55	5.34	ug/Kg	1	11/8/2012 14:08
n-Butylbenzene	ND	U	0.701	5.34	ug/Kg	1	11/8/2012 14:08
Carbon disulfide	ND	U	0.558	5.34	ug/Kg	1	11/8/2012 14:08
Carbon tetrachloride	ND	U	0.607	5.34	ug/Kg	1	11/8/2012 14:08
Chlorobenzene	ND	U	0.745	5.34	ug/Kg	1	11/8/2012 14:08
Chloroethane	ND	U	1.07	5.34	ug/Kg	1	11/8/2012 14:08
Chloroform	ND	U	0.680	5.34	ug/Kg	1	11/8/2012 14:08
Chloromethane	ND	U	1.53	5.34	ug/Kg	1	11/8/2012 14:08
Dibromochloromethane	ND	U	1.18	5.34	ug/Kg	1	11/8/2012 14:08
Dibromomethane	ND	U	0.941	5.34	ug/Kg	1	11/8/2012 14:08

Print Date: 11/28/2012

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Results of **IDW-Box 3**

Client Sample ID: **IDW-Box 3**
Client Project ID: **2012.0009**
Lab Sample ID: 31203610010-A
Lab Project ID: 31203610

Collection Date: 10/31/2012 16:15
Received Date: 11/02/2012 14:00
Matrix: Soil-Solid as dry weight
Solids (%): 93.10

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
Dichlorodifluoromethane	ND	U	1.12	5.34	ug/Kg	1	11/8/2012 14:08
cis-1,3-Dichloropropene	ND	U	1.10	5.34	ug/Kg	1	11/8/2012 14:08
trans-1,3-Dichloropropene	ND	U	1.01	5.34	ug/Kg	1	11/8/2012 14:08
Diisopropyl Ether	ND	U	0.876	5.34	ug/Kg	1	11/8/2012 14:08
Ethyl Benzene	ND	U	0.752	5.34	ug/Kg	1	11/8/2012 14:08
Hexachlorobutadiene	ND	U	0.733	5.34	ug/Kg	1	11/8/2012 14:08
Isopropylbenzene (Cumene)	ND	U	0.664	5.34	ug/Kg	1	11/8/2012 14:08
Methyl iodide	ND	U	0.818	5.34	ug/Kg	1	11/8/2012 14:08
Methylene chloride	**2.54**	J	1.12	21.3	ug/Kg	1	11/8/2012 14:08
Naphthalene	ND	U	0.970	5.34	ug/Kg	1	11/8/2012 14:08
Styrene	ND	U	0.615	5.34	ug/Kg	1	11/8/2012 14:08
Tetrachloroethene	**9.41**		0.802	5.34	ug/Kg	1	11/8/2012 14:08
Toluene	ND	U	0.734	5.34	ug/Kg	1	11/8/2012 14:08
Trichloroethene	ND	U	0.899	5.34	ug/Kg	1	11/8/2012 14:08
Trichlorofluoromethane	ND	U	1.08	5.34	ug/Kg	1	11/8/2012 14:08
Vinyl chloride	ND	U	1.01	5.34	ug/Kg	1	11/8/2012 14:08
Xylene (total)	ND	U	1.89	10.7	ug/Kg	1	11/8/2012 14:08
cis-1,2-Dichloroethene	ND	U	0.652	5.34	ug/Kg	1	11/8/2012 14:08
m,p-Xylene	ND	U	1.80	10.7	ug/Kg	1	11/8/2012 14:08
n-Propylbenzene	ND	U	0.781	5.34	ug/Kg	1	11/8/2012 14:08
o-Xylene	ND	U	0.818	5.34	ug/Kg	1	11/8/2012 14:08
sec-Butylbenzene	ND	U	0.640	5.34	ug/Kg	1	11/8/2012 14:08
tert-Butyl methyl ether (MTBE)	ND	U	0.848	5.34	ug/Kg	1	11/8/2012 14:08
tert-Butylbenzene	ND	U	0.718	5.34	ug/Kg	1	11/8/2012 14:08
trans-1,2-Dichloroethene	ND	U	0.779	5.34	ug/Kg	1	11/8/2012 14:08
trans-1,4-Dichloro-2-butene	ND	U	4.48	26.7	ug/Kg	1	11/8/2012 14:08
Surrogates							
1,2-Dichloroethane-d4	112			55.0-173	%	1	11/8/2012 14:08
4-Bromofluorobenzene	102			23.0-141	%	1	11/8/2012 14:08
Toluene d8	101			57.0-134	%	1	11/8/2012 14:08

Batch Information

Analytical Batch: **VMS2722**
Analytical Method: **SW-846 8260B**
Instrument: **MSD9**
Analyst: **DVO**

Prep Batch: **VXX4299**
Prep Method: **SW-846 5035 SL**
Prep Date/Time: **11/06/2012 11:32**
Prep Initial Wt./Vol.: **5.03 g**
Prep Extract Vol: **5 mL**

Print Date: 11/28/2012

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Results of **SB40-0-1**

Client Sample ID: **SB40-0-1**
Client Project ID: **2012.0009**
Lab Sample ID: 31203610011-B
Lab Project ID: 31203610

Collection Date: 11/01/2012 08:30
Received Date: 11/02/2012 14:00
Matrix: Soil-Solid as dry weight
Solids (%): 87.00

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	U	0.395	4.01	ug/Kg	1	11/8/2012 15:24
1,1,1-Trichloroethane	ND	U	0.339	4.01	ug/Kg	1	11/8/2012 15:24
1,1,2,2-Tetrachloroethane	ND	U	0.658	4.01	ug/Kg	1	11/8/2012 15:24
1,1,2-Trichloroethane	ND	U	0.486	4.01	ug/Kg	1	11/8/2012 15:24
1,1-Dichloroethane	ND	U	0.472	4.01	ug/Kg	1	11/8/2012 15:24
1,1-Dichloroethene	ND	U	2.39	4.01	ug/Kg	1	11/8/2012 15:24
1,1-Dichloropropene	ND	U	0.385	4.01	ug/Kg	1	11/8/2012 15:24
1,2,3-Trichlorobenzene	ND	U	0.334	4.01	ug/Kg	1	11/8/2012 15:24
1,2,3-Trichloropropane	ND	U	0.498	4.01	ug/Kg	1	11/8/2012 15:24
1,2,4-Trichlorobenzene	ND	U	0.327	4.01	ug/Kg	1	11/8/2012 15:24
1,2,4-Trimethylbenzene	ND	U	0.386	4.01	ug/Kg	1	11/8/2012 15:24
1,2-Dibromo-3-chloropropane	ND	U	5.12	24.1	ug/Kg	1	11/8/2012 15:24
1,2-Dibromoethane	ND	U	0.449	4.01	ug/Kg	1	11/8/2012 15:24
1,2-Dichlorobenzene	ND	U	0.533	4.01	ug/Kg	1	11/8/2012 15:24
1,2-Dichloroethane	ND	U	0.657	4.01	ug/Kg	1	11/8/2012 15:24
1,2-Dichloropropane	ND	U	0.369	4.01	ug/Kg	1	11/8/2012 15:24
1,3,5-Trimethylbenzene	ND	U	0.656	4.01	ug/Kg	1	11/8/2012 15:24
1,3-Dichlorobenzene	ND	U	0.305	4.01	ug/Kg	1	11/8/2012 15:24
1,3-Dichloropropane	ND	U	0.544	4.01	ug/Kg	1	11/8/2012 15:24
1,4-Dichlorobenzene	ND	U	0.394	4.01	ug/Kg	1	11/8/2012 15:24
2,2-Dichloropropane	ND	U	0.383	4.01	ug/Kg	1	11/8/2012 15:24
2-Butanone	**8.72**	J	2.15	20.1	ug/Kg	1	11/8/2012 15:24
2-Chlorotoluene	ND	U	0.551	4.01	ug/Kg	1	11/8/2012 15:24
2-Hexanone	ND	U	2.25	10.0	ug/Kg	1	11/8/2012 15:24
4-Chlorotoluene	ND	U	0.384	4.01	ug/Kg	1	11/8/2012 15:24
4-Isopropyltoluene	ND	U	0.452	4.01	ug/Kg	1	11/8/2012 15:24
4-Methyl-2-pentanone	ND	U	1.66	10.0	ug/Kg	1	11/8/2012 15:24
Acetone	**34.0**	J	3.00	40.1	ug/Kg	1	11/8/2012 15:24
Benzene	ND	U	0.311	4.01	ug/Kg	1	11/8/2012 15:24
Bromobenzene	ND	U	0.749	4.01	ug/Kg	1	11/8/2012 15:24
Bromochloromethane	ND	U	1.18	4.01	ug/Kg	1	11/8/2012 15:24
Bromodichloromethane	ND	U	0.546	4.01	ug/Kg	1	11/8/2012 15:24
Bromoform	ND	U	1.84	4.01	ug/Kg	1	11/8/2012 15:24
Bromomethane	ND	U	1.37	4.01	ug/Kg	1	11/8/2012 15:24
n-Butylbenzene	ND	U	0.339	4.01	ug/Kg	1	11/8/2012 15:24
Carbon disulfide	ND	U	0.658	4.01	ug/Kg	1	11/8/2012 15:24
Carbon tetrachloride	ND	U	0.449	4.01	ug/Kg	1	11/8/2012 15:24
Chlorobenzene	ND	U	0.391	4.01	ug/Kg	1	11/8/2012 15:24
Chloroethane	ND	U	0.987	4.01	ug/Kg	1	11/8/2012 15:24
Chloroform	ND	U	0.413	4.01	ug/Kg	1	11/8/2012 15:24
Chloromethane	ND	U	0.518	4.01	ug/Kg	1	11/8/2012 15:24
Dibromochloromethane	ND	U	0.651	4.01	ug/Kg	1	11/8/2012 15:24
Dibromomethane	ND	U	0.465	4.01	ug/Kg	1	11/8/2012 15:24

Print Date: 11/28/2012

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Results of **SB40-0-1**

Client Sample ID: **SB40-0-1**
Client Project ID: **2012.0009**
Lab Sample ID: 31203610011-B
Lab Project ID: 31203610

Collection Date: 11/01/2012 08:30
Received Date: 11/02/2012 14:00
Matrix: Soil-Solid as dry weight
Solids (%): 87.00

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
Dichlorodifluoromethane	ND	U	0.601	4.01	ug/Kg	1	11/8/2012 15:24
cis-1,3-Dichloropropene	ND	U	0.402	4.01	ug/Kg	1	11/8/2012 15:24
trans-1,3-Dichloropropene	ND	U	0.428	4.01	ug/Kg	1	11/8/2012 15:24
Diisopropyl Ether	ND	U	0.546	4.01	ug/Kg	1	11/8/2012 15:24
Ethyl Benzene	ND	U	0.355	4.01	ug/Kg	1	11/8/2012 15:24
Hexachlorobutadiene	ND	U	0.475	4.01	ug/Kg	1	11/8/2012 15:24
Isopropylbenzene (Cumene)	ND	U	0.300	4.01	ug/Kg	1	11/8/2012 15:24
Methyl iodide	ND	U	0.431	4.01	ug/Kg	1	11/8/2012 15:24
Methylene chloride	**1.12**	J	0.725	16.0	ug/Kg	1	11/8/2012 15:24
Naphthalene	ND	U	0.507	4.01	ug/Kg	1	11/8/2012 15:24
Styrene	ND	U	0.428	4.01	ug/Kg	1	11/8/2012 15:24
Tetrachloroethene	**2.78**	J	0.465	4.01	ug/Kg	1	11/8/2012 15:24
Toluene	ND	U	0.557	4.01	ug/Kg	1	11/8/2012 15:24
Trichloroethene	ND	U	0.516	4.01	ug/Kg	1	11/8/2012 15:24
Trichlorofluoromethane	ND	U	0.457	4.01	ug/Kg	1	11/8/2012 15:24
Vinyl chloride	ND	U	0.636	4.01	ug/Kg	1	11/8/2012 15:24
Xylene (total)	ND	U	1.42	8.02	ug/Kg	1	11/8/2012 15:24
cis-1,2-Dichloroethene	ND	U	0.537	4.01	ug/Kg	1	11/8/2012 15:24
m,p-Xylene	ND	U	0.626	8.02	ug/Kg	1	11/8/2012 15:24
n-Propylbenzene	ND	U	0.389	4.01	ug/Kg	1	11/8/2012 15:24
o-Xylene	ND	U	0.572	4.01	ug/Kg	1	11/8/2012 15:24
sec-Butylbenzene	ND	U	0.390	4.01	ug/Kg	1	11/8/2012 15:24
tert-Butyl methyl ether (MTBE)	ND	U	0.553	4.01	ug/Kg	1	11/8/2012 15:24
tert-Butylbenzene	ND	U	0.315	4.01	ug/Kg	1	11/8/2012 15:24
trans-1,2-Dichloroethene	ND	U	0.618	4.01	ug/Kg	1	11/8/2012 15:24
trans-1,4-Dichloro-2-butene	ND	U	4.71	20.1	ug/Kg	1	11/8/2012 15:24
Surrogates							
1,2-Dichloroethane-d4	113			55.0-173	%	1	11/8/2012 15:24
4-Bromofluorobenzene	99.0			23.0-141	%	1	11/8/2012 15:24
Toluene d8	102			57.0-134	%	1	11/8/2012 15:24

Batch Information

Analytical Batch: **VMS2723**
Analytical Method: **SW-846 8260B**
Instrument: **MSD2**
Analyst: **DVO**

Prep Batch: **VXX4300**
Prep Method: **SW-846 5035 SL**
Prep Date/Time: **11/06/2012 11:34**
Prep Initial Wt./Vol.: **7.16 g**
Prep Extract Vol: **5 mL**

Print Date: 11/28/2012

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Results of **SB40-1-2**

Client Sample ID: **SB40-1-2**
Client Project ID: **2012.0009**
Lab Sample ID: 31203610012-A
Lab Project ID: 31203610

Collection Date: 11/01/2012 08:35
Received Date: 11/02/2012 14:00
Matrix: Soil-Solid as dry weight
Solids (%): 83.70

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	U	0.583	4.11	ug/Kg	1	11/8/2012 15:01
1,1,1-Trichloroethane	ND	U	0.620	4.11	ug/Kg	1	11/8/2012 15:01
1,1,2,2-Tetrachloroethane	ND	U	0.961	4.11	ug/Kg	1	11/8/2012 15:01
1,1,2-Trichloroethane	ND	U	0.855	4.11	ug/Kg	1	11/8/2012 15:01
1,1-Dichloroethane	ND	U	0.442	4.11	ug/Kg	1	11/8/2012 15:01
1,1-Dichloroethene	ND	U	0.953	4.11	ug/Kg	1	11/8/2012 15:01
1,1-Dichloropropene	ND	U	0.555	4.11	ug/Kg	1	11/8/2012 15:01
1,2,3-Trichlorobenzene	ND	U	0.684	4.11	ug/Kg	1	11/8/2012 15:01
1,2,3-Trichloropropane	ND	U	0.846	4.11	ug/Kg	1	11/8/2012 15:01
1,2,4-Trichlorobenzene	ND	U	0.599	4.11	ug/Kg	1	11/8/2012 15:01
1,2,4-Trimethylbenzene	ND	U	0.523	4.11	ug/Kg	1	11/8/2012 15:01
1,2-Dibromo-3-chloropropane	ND	U	6.09	24.7	ug/Kg	1	11/8/2012 15:01
1,2-Dibromoethane	ND	U	1.08	4.11	ug/Kg	1	11/8/2012 15:01
1,2-Dichlorobenzene	ND	U	0.584	4.11	ug/Kg	1	11/8/2012 15:01
1,2-Dichloroethane	ND	U	0.750	4.11	ug/Kg	1	11/8/2012 15:01
1,2-Dichloropropane	ND	U	0.945	4.11	ug/Kg	1	11/8/2012 15:01
1,3,5-Trimethylbenzene	ND	U	0.500	4.11	ug/Kg	1	11/8/2012 15:01
1,3-Dichlorobenzene	ND	U	0.591	4.11	ug/Kg	1	11/8/2012 15:01
1,3-Dichloropropane	ND	U	0.722	4.11	ug/Kg	1	11/8/2012 15:01
1,4-Dichlorobenzene	ND	U	0.555	4.11	ug/Kg	1	11/8/2012 15:01
2,2-Dichloropropane	ND	U	0.606	4.11	ug/Kg	1	11/8/2012 15:01
2-Butanone	ND	U	2.78	20.5	ug/Kg	1	11/8/2012 15:01
2-Chlorotoluene	ND	U	0.770	4.11	ug/Kg	1	11/8/2012 15:01
2-Hexanone	ND	U	2.65	10.3	ug/Kg	1	11/8/2012 15:01
4-Chlorotoluene	ND	U	0.621	4.11	ug/Kg	1	11/8/2012 15:01
4-Isopropyltoluene	ND	U	0.530	4.11	ug/Kg	1	11/8/2012 15:01
4-Methyl-2-pentanone	ND	U	3.07	10.3	ug/Kg	1	11/8/2012 15:01
Acetone	**8.97**	J	3.30	41.1	ug/Kg	1	11/8/2012 15:01
Benzene	ND	U	0.584	4.11	ug/Kg	1	11/8/2012 15:01
Bromobenzene	ND	U	0.573	4.11	ug/Kg	1	11/8/2012 15:01
Bromochloromethane	ND	U	0.772	4.11	ug/Kg	1	11/8/2012 15:01
Bromodichloromethane	ND	U	0.578	4.11	ug/Kg	1	11/8/2012 15:01
Bromoform	ND	U	0.595	4.11	ug/Kg	1	11/8/2012 15:01
Bromomethane	ND	U	1.19	4.11	ug/Kg	1	11/8/2012 15:01
n-Butylbenzene	ND	U	0.540	4.11	ug/Kg	1	11/8/2012 15:01
Carbon disulfide	ND	U	0.430	4.11	ug/Kg	1	11/8/2012 15:01
Carbon tetrachloride	ND	U	0.468	4.11	ug/Kg	1	11/8/2012 15:01
Chlorobenzene	ND	U	0.574	4.11	ug/Kg	1	11/8/2012 15:01
Chloroethane	ND	U	0.822	4.11	ug/Kg	1	11/8/2012 15:01
Chloroform	ND	U	0.523	4.11	ug/Kg	1	11/8/2012 15:01
Chloromethane	ND	U	1.18	4.11	ug/Kg	1	11/8/2012 15:01
Dibromochloromethane	ND	U	0.912	4.11	ug/Kg	1	11/8/2012 15:01
Dibromomethane	ND	U	0.725	4.11	ug/Kg	1	11/8/2012 15:01

Print Date: 11/28/2012

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Results of **SB40-1-2**

Client Sample ID: **SB40-1-2**
Client Project ID: **2012.0009**
Lab Sample ID: 31203610012-A
Lab Project ID: 31203610

Collection Date: 11/01/2012 08:35
Received Date: 11/02/2012 14:00
Matrix: Soil-Solid as dry weight
Solids (%): 83.70

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
Dichlorodifluoromethane	ND	U	0.863	4.11	ug/Kg	1	11/8/2012 15:01
cis-1,3-Dichloropropene	ND	U	0.846	4.11	ug/Kg	1	11/8/2012 15:01
trans-1,3-Dichloropropene	ND	U	0.776	4.11	ug/Kg	1	11/8/2012 15:01
Diisopropyl Ether	ND	U	0.675	4.11	ug/Kg	1	11/8/2012 15:01
Ethyl Benzene	ND	U	0.579	4.11	ug/Kg	1	11/8/2012 15:01
Hexachlorobutadiene	ND	U	0.565	4.11	ug/Kg	1	11/8/2012 15:01
Isopropylbenzene (Cumene)	ND	U	0.511	4.11	ug/Kg	1	11/8/2012 15:01
Methyl iodide	ND	U	0.629	4.11	ug/Kg	1	11/8/2012 15:01
Methylene chloride	**1.36**	J	0.863	16.4	ug/Kg	1	11/8/2012 15:01
Naphthalene	ND	U	0.747	4.11	ug/Kg	1	11/8/2012 15:01
Styrene	ND	U	0.473	4.11	ug/Kg	1	11/8/2012 15:01
Tetrachloroethene	**23.4**		0.617	4.11	ug/Kg	1	11/8/2012 15:01
Toluene	ND	U	0.565	4.11	ug/Kg	1	11/8/2012 15:01
Trichloroethene	ND	U	0.692	4.11	ug/Kg	1	11/8/2012 15:01
Trichlorofluoromethane	ND	U	0.830	4.11	ug/Kg	1	11/8/2012 15:01
Vinyl chloride	ND	U	0.781	4.11	ug/Kg	1	11/8/2012 15:01
Xylene (total)	ND	U	1.45	8.22	ug/Kg	1	11/8/2012 15:01
cis-1,2-Dichloroethene	ND	U	0.502	4.11	ug/Kg	1	11/8/2012 15:01
m,p-Xylene	ND	U	1.39	8.22	ug/Kg	1	11/8/2012 15:01
n-Propylbenzene	ND	U	0.601	4.11	ug/Kg	1	11/8/2012 15:01
o-Xylene	ND	U	0.629	4.11	ug/Kg	1	11/8/2012 15:01
sec-Butylbenzene	ND	U	0.493	4.11	ug/Kg	1	11/8/2012 15:01
tert-Butyl methyl ether (MTBE)	ND	U	0.653	4.11	ug/Kg	1	11/8/2012 15:01
tert-Butylbenzene	ND	U	0.553	4.11	ug/Kg	1	11/8/2012 15:01
trans-1,2-Dichloroethene	ND	U	0.600	4.11	ug/Kg	1	11/8/2012 15:01
trans-1,4-Dichloro-2-butene	ND	U	3.45	20.5	ug/Kg	1	11/8/2012 15:01
Surrogates							
1,2-Dichloroethane-d4	111			55.0-173	%	1	11/8/2012 15:01
4-Bromofluorobenzene	96.0			23.0-141	%	1	11/8/2012 15:01
Toluene d8	101			57.0-134	%	1	11/8/2012 15:01

Batch Information

Analytical Batch: **VMS2722**
Analytical Method: **SW-846 8260B**
Instrument: **MSD9**
Analyst: **DVO**

Prep Batch: **VXX4299**
Prep Method: **SW-846 5035 SL**
Prep Date/Time: **11/06/2012 11:35**
Prep Initial Wt./Vol.: **7.27 g**
Prep Extract Vol: **5 mL**

Print Date: 11/28/2012

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Results of **SB40-2-3**

Client Sample ID: **SB40-2-3**
Client Project ID: **2012.0009**
Lab Sample ID: 31203610013-A
Lab Project ID: 31203610

Collection Date: 11/01/2012 08:45
Received Date: 11/02/2012 14:00
Matrix: Soil-Solid as dry weight
Solids (%): 83.50

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	U	0.563	3.97	ug/Kg	1	11/8/2012 15:28
1,1,1-Trichloroethane	ND	U	0.599	3.97	ug/Kg	1	11/8/2012 15:28
1,1,2,2-Tetrachloroethane	ND	U	0.929	3.97	ug/Kg	1	11/8/2012 15:28
1,1,2-Trichloroethane	ND	U	0.826	3.97	ug/Kg	1	11/8/2012 15:28
1,1-Dichloroethane	ND	U	0.427	3.97	ug/Kg	1	11/8/2012 15:28
1,1-Dichloroethene	ND	U	0.921	3.97	ug/Kg	1	11/8/2012 15:28
1,1-Dichloropropene	ND	U	0.537	3.97	ug/Kg	1	11/8/2012 15:28
1,2,3-Trichlorobenzene	ND	U	0.661	3.97	ug/Kg	1	11/8/2012 15:28
1,2,3-Trichloropropane	ND	U	0.818	3.97	ug/Kg	1	11/8/2012 15:28
1,2,4-Trichlorobenzene	ND	U	0.579	3.97	ug/Kg	1	11/8/2012 15:28
1,2,4-Trimethylbenzene	ND	U	0.506	3.97	ug/Kg	1	11/8/2012 15:28
1,2-Dibromo-3-chloropropane	ND	U	5.88	23.8	ug/Kg	1	11/8/2012 15:28
1,2-Dibromoethane	ND	U	1.04	3.97	ug/Kg	1	11/8/2012 15:28
1,2-Dichlorobenzene	ND	U	0.565	3.97	ug/Kg	1	11/8/2012 15:28
1,2-Dichloroethane	ND	U	0.725	3.97	ug/Kg	1	11/8/2012 15:28
1,2-Dichloropropane	ND	U	0.913	3.97	ug/Kg	1	11/8/2012 15:28
1,3,5-Trimethylbenzene	ND	U	0.483	3.97	ug/Kg	1	11/8/2012 15:28
1,3-Dichlorobenzene	ND	U	0.571	3.97	ug/Kg	1	11/8/2012 15:28
1,3-Dichloropropane	ND	U	0.698	3.97	ug/Kg	1	11/8/2012 15:28
1,4-Dichlorobenzene	ND	U	0.536	3.97	ug/Kg	1	11/8/2012 15:28
2,2-Dichloropropane	ND	U	0.586	3.97	ug/Kg	1	11/8/2012 15:28
2-Butanone	ND	U	2.68	19.9	ug/Kg	1	11/8/2012 15:28
2-Chlorotoluene	ND	U	0.744	3.97	ug/Kg	1	11/8/2012 15:28
2-Hexanone	ND	U	2.56	9.93	ug/Kg	1	11/8/2012 15:28
4-Chlorotoluene	ND	U	0.600	3.97	ug/Kg	1	11/8/2012 15:28
4-Isopropyltoluene	ND	U	0.512	3.97	ug/Kg	1	11/8/2012 15:28
4-Methyl-2-pentanone	ND	U	2.97	9.93	ug/Kg	1	11/8/2012 15:28
Acetone	**13.6**	J	3.18	39.7	ug/Kg	1	11/8/2012 15:28
Benzene	ND	U	0.565	3.97	ug/Kg	1	11/8/2012 15:28
Bromobenzene	ND	U	0.554	3.97	ug/Kg	1	11/8/2012 15:28
Bromochloromethane	ND	U	0.746	3.97	ug/Kg	1	11/8/2012 15:28
Bromodichloromethane	ND	U	0.559	3.97	ug/Kg	1	11/8/2012 15:28
Bromoform	ND	U	0.575	3.97	ug/Kg	1	11/8/2012 15:28
Bromomethane	ND	U	1.15	3.97	ug/Kg	1	11/8/2012 15:28
n-Butylbenzene	ND	U	0.522	3.97	ug/Kg	1	11/8/2012 15:28
Carbon disulfide	ND	U	0.415	3.97	ug/Kg	1	11/8/2012 15:28
Carbon tetrachloride	ND	U	0.452	3.97	ug/Kg	1	11/8/2012 15:28
Chlorobenzene	ND	U	0.554	3.97	ug/Kg	1	11/8/2012 15:28
Chloroethane	ND	U	0.794	3.97	ug/Kg	1	11/8/2012 15:28
Chloroform	ND	U	0.506	3.97	ug/Kg	1	11/8/2012 15:28
Chloromethane	ND	U	1.14	3.97	ug/Kg	1	11/8/2012 15:28
Dibromochloromethane	ND	U	0.881	3.97	ug/Kg	1	11/8/2012 15:28
Dibromomethane	ND	U	0.700	3.97	ug/Kg	1	11/8/2012 15:28

Print Date: 11/28/2012

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Results of **SB40-2-3**

Client Sample ID: **SB40-2-3**
Client Project ID: **2012.0009**
Lab Sample ID: 31203610013-A
Lab Project ID: 31203610

Collection Date: 11/01/2012 08:45
Received Date: 11/02/2012 14:00
Matrix: Soil-Solid as dry weight
Solids (%): 83.50

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
Dichlorodifluoromethane	ND	U	0.834	3.97	ug/Kg	1	11/8/2012 15:28
cis-1,3-Dichloropropene	ND	U	0.818	3.97	ug/Kg	1	11/8/2012 15:28
trans-1,3-Dichloropropene	ND	U	0.750	3.97	ug/Kg	1	11/8/2012 15:28
Diisopropyl Ether	ND	U	0.652	3.97	ug/Kg	1	11/8/2012 15:28
Ethyl Benzene	ND	U	0.560	3.97	ug/Kg	1	11/8/2012 15:28
Hexachlorobutadiene	ND	U	0.546	3.97	ug/Kg	1	11/8/2012 15:28
Isopropylbenzene (Cumene)	ND	U	0.494	3.97	ug/Kg	1	11/8/2012 15:28
Methyl iodide	ND	U	0.608	3.97	ug/Kg	1	11/8/2012 15:28
Methylene chloride	**1.60**	J	0.834	15.9	ug/Kg	1	11/8/2012 15:28
Naphthalene	ND	U	0.722	3.97	ug/Kg	1	11/8/2012 15:28
Styrene	ND	U	0.457	3.97	ug/Kg	1	11/8/2012 15:28
Tetrachloroethene	**45.5**		0.596	3.97	ug/Kg	1	11/8/2012 15:28
Toluene	ND	U	0.546	3.97	ug/Kg	1	11/8/2012 15:28
Trichloroethene	**0.739**	J	0.669	3.97	ug/Kg	1	11/8/2012 15:28
Trichlorofluoromethane	ND	U	0.802	3.97	ug/Kg	1	11/8/2012 15:28
Vinyl chloride	ND	U	0.754	3.97	ug/Kg	1	11/8/2012 15:28
Xylene (total)	ND	U	1.41	7.94	ug/Kg	1	11/8/2012 15:28
cis-1,2-Dichloroethene	ND	U	0.485	3.97	ug/Kg	1	11/8/2012 15:28
m,p-Xylene	ND	U	1.34	7.94	ug/Kg	1	11/8/2012 15:28
n-Propylbenzene	ND	U	0.581	3.97	ug/Kg	1	11/8/2012 15:28
o-Xylene	ND	U	0.608	3.97	ug/Kg	1	11/8/2012 15:28
sec-Butylbenzene	ND	U	0.476	3.97	ug/Kg	1	11/8/2012 15:28
tert-Butyl methyl ether (MTBE)	ND	U	0.631	3.97	ug/Kg	1	11/8/2012 15:28
tert-Butylbenzene	ND	U	0.534	3.97	ug/Kg	1	11/8/2012 15:28
trans-1,2-Dichloroethene	ND	U	0.580	3.97	ug/Kg	1	11/8/2012 15:28
trans-1,4-Dichloro-2-butene	ND	U	3.34	19.9	ug/Kg	1	11/8/2012 15:28
Surrogates							
1,2-Dichloroethane-d4	112			55.0-173	%	1	11/8/2012 15:28
4-Bromofluorobenzene	93.0			23.0-141	%	1	11/8/2012 15:28
Toluene d8	98.0			57.0-134	%	1	11/8/2012 15:28

Batch Information

Analytical Batch: **VMS2722**
Analytical Method: **SW-846 8260B**
Instrument: **MSD9**
Analyst: **DVO**

Prep Batch: **VXX4299**
Prep Method: **SW-846 5035 SL**
Prep Date/Time: **11/06/2012 11:36**
Prep Initial Wt./Vol.: **7.54 g**
Prep Extract Vol: **5 mL**

Print Date: 11/28/2012

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Results of **SB40-3-4**

Client Sample ID: **SB40-3-4**
Client Project ID: **2012.0009**
Lab Sample ID: 31203610014-A
Lab Project ID: 31203610

Collection Date: 11/01/2012 08:55
Received Date: 11/02/2012 14:00
Matrix: Soil-Solid as dry weight
Solids (%): 85.20

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	U	0.611	4.31	ug/Kg	1	11/8/2012 15:55
1,1,1-Trichloroethane	ND	U	0.650	4.31	ug/Kg	1	11/8/2012 15:55
1,1,2,2-Tetrachloroethane	ND	U	1.01	4.31	ug/Kg	1	11/8/2012 15:55
1,1,2-Trichloroethane	ND	U	0.896	4.31	ug/Kg	1	11/8/2012 15:55
1,1-Dichloroethane	**0.629**	J	0.464	4.31	ug/Kg	1	11/8/2012 15:55
1,1-Dichloroethene	**4.20**	J	1.00	4.31	ug/Kg	1	11/8/2012 15:55
1,1-Dichloropropene	ND	U	0.583	4.31	ug/Kg	1	11/8/2012 15:55
1,2,3-Trichlorobenzene	ND	U	0.717	4.31	ug/Kg	1	11/8/2012 15:55
1,2,3-Trichloropropane	ND	U	0.888	4.31	ug/Kg	1	11/8/2012 15:55
1,2,4-Trichlorobenzene	ND	U	0.628	4.31	ug/Kg	1	11/8/2012 15:55
1,2,4-Trimethylbenzene	ND	U	0.549	4.31	ug/Kg	1	11/8/2012 15:55
1,2-Dibromo-3-chloropropane	ND	U	6.39	25.9	ug/Kg	1	11/8/2012 15:55
1,2-Dibromoethane	ND	U	1.13	4.31	ug/Kg	1	11/8/2012 15:55
1,2-Dichlorobenzene	ND	U	0.613	4.31	ug/Kg	1	11/8/2012 15:55
1,2-Dichloroethane	ND	U	0.787	4.31	ug/Kg	1	11/8/2012 15:55
1,2-Dichloropropane	ND	U	0.991	4.31	ug/Kg	1	11/8/2012 15:55
1,3,5-Trimethylbenzene	ND	U	0.524	4.31	ug/Kg	1	11/8/2012 15:55
1,3-Dichlorobenzene	ND	U	0.620	4.31	ug/Kg	1	11/8/2012 15:55
1,3-Dichloropropane	ND	U	0.757	4.31	ug/Kg	1	11/8/2012 15:55
1,4-Dichlorobenzene	ND	U	0.582	4.31	ug/Kg	1	11/8/2012 15:55
2,2-Dichloropropane	ND	U	0.636	4.31	ug/Kg	1	11/8/2012 15:55
2-Butanone	ND	U	2.91	21.5	ug/Kg	1	11/8/2012 15:55
2-Chlorotoluene	ND	U	0.807	4.31	ug/Kg	1	11/8/2012 15:55
2-Hexanone	ND	U	2.77	10.8	ug/Kg	1	11/8/2012 15:55
4-Chlorotoluene	ND	U	0.651	4.31	ug/Kg	1	11/8/2012 15:55
4-Isopropyltoluene	ND	U	0.556	4.31	ug/Kg	1	11/8/2012 15:55
4-Methyl-2-pentanone	ND	U	3.22	10.8	ug/Kg	1	11/8/2012 15:55
Acetone	ND	U	3.46	43.1	ug/Kg	1	11/8/2012 15:55
Benzene	ND	U	0.613	4.31	ug/Kg	1	11/8/2012 15:55
Bromobenzene	ND	U	0.601	4.31	ug/Kg	1	11/8/2012 15:55
Bromochloromethane	ND	U	0.810	4.31	ug/Kg	1	11/8/2012 15:55
Bromodichloromethane	ND	U	0.607	4.31	ug/Kg	1	11/8/2012 15:55
Bromoform	ND	U	0.624	4.31	ug/Kg	1	11/8/2012 15:55
Bromomethane	ND	U	1.25	4.31	ug/Kg	1	11/8/2012 15:55
n-Butylbenzene	ND	U	0.566	4.31	ug/Kg	1	11/8/2012 15:55
Carbon disulfide	ND	U	0.451	4.31	ug/Kg	1	11/8/2012 15:55
Carbon tetrachloride	ND	U	0.490	4.31	ug/Kg	1	11/8/2012 15:55
Chlorobenzene	ND	U	0.601	4.31	ug/Kg	1	11/8/2012 15:55
Chloroethane	ND	U	0.862	4.31	ug/Kg	1	11/8/2012 15:55
Chloroform	ND	U	0.549	4.31	ug/Kg	1	11/8/2012 15:55
Chloromethane	ND	U	1.23	4.31	ug/Kg	1	11/8/2012 15:55
Dibromochloromethane	ND	U	0.956	4.31	ug/Kg	1	11/8/2012 15:55
Dibromomethane	ND	U	0.760	4.31	ug/Kg	1	11/8/2012 15:55

Print Date: 11/28/2012

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Results of **SB40-3-4**

Client Sample ID: **SB40-3-4**
Client Project ID: **2012.0009**
Lab Sample ID: 31203610014-A
Lab Project ID: 31203610

Collection Date: 11/01/2012 08:55
Received Date: 11/02/2012 14:00
Matrix: Soil-Solid as dry weight
Solids (%): 85.20

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
Dichlorodifluoromethane	ND	U	0.905	4.31	ug/Kg	1	11/8/2012 15:55
cis-1,3-Dichloropropene	ND	U	0.888	4.31	ug/Kg	1	11/8/2012 15:55
trans-1,3-Dichloropropene	ND	U	0.813	4.31	ug/Kg	1	11/8/2012 15:55
Diisopropyl Ether	ND	U	0.707	4.31	ug/Kg	1	11/8/2012 15:55
Ethyl Benzene	ND	U	0.608	4.31	ug/Kg	1	11/8/2012 15:55
Hexachlorobutadiene	ND	U	0.592	4.31	ug/Kg	1	11/8/2012 15:55
Isopropylbenzene (Cumene)	ND	U	0.536	4.31	ug/Kg	1	11/8/2012 15:55
Methyl iodide	ND	U	0.660	4.31	ug/Kg	1	11/8/2012 15:55
Methylene chloride	**2.17**	J	0.905	17.2	ug/Kg	1	11/8/2012 15:55
Naphthalene	ND	U	0.783	4.31	ug/Kg	1	11/8/2012 15:55
Styrene	ND	U	0.496	4.31	ug/Kg	1	11/8/2012 15:55
Tetrachloroethene	**27.8**		0.647	4.31	ug/Kg	1	11/8/2012 15:55
Toluene	ND	U	0.593	4.31	ug/Kg	1	11/8/2012 15:55
Trichloroethene	**9.82**		0.726	4.31	ug/Kg	1	11/8/2012 15:55
Trichlorofluoromethane	ND	U	0.870	4.31	ug/Kg	1	11/8/2012 15:55
Vinyl chloride	ND	U	0.819	4.31	ug/Kg	1	11/8/2012 15:55
Xylene (total)	ND	U	1.53	8.62	ug/Kg	1	11/8/2012 15:55
cis-1,2-Dichloroethene	**37.1**		0.527	4.31	ug/Kg	1	11/8/2012 15:55
m,p-Xylene	ND	U	1.46	8.62	ug/Kg	1	11/8/2012 15:55
n-Propylbenzene	ND	U	0.631	4.31	ug/Kg	1	11/8/2012 15:55
o-Xylene	ND	U	0.660	4.31	ug/Kg	1	11/8/2012 15:55
sec-Butylbenzene	ND	U	0.517	4.31	ug/Kg	1	11/8/2012 15:55
tert-Butyl methyl ether (MTBE)	ND	U	0.685	4.31	ug/Kg	1	11/8/2012 15:55
tert-Butylbenzene	ND	U	0.580	4.31	ug/Kg	1	11/8/2012 15:55
trans-1,2-Dichloroethene	ND	U	0.629	4.31	ug/Kg	1	11/8/2012 15:55
trans-1,4-Dichloro-2-butene	ND	U	3.62	21.5	ug/Kg	1	11/8/2012 15:55
Surrogates							
1,2-Dichloroethane-d4	112			55.0-173	%	1	11/8/2012 15:55
4-Bromofluorobenzene	100			23.0-141	%	1	11/8/2012 15:55
Toluene d8	101			57.0-134	%	1	11/8/2012 15:55

Batch Information

Analytical Batch: **VMS2722**
Analytical Method: **SW-846 8260B**
Instrument: **MSD9**
Analyst: **DVO**

Prep Batch: **VXX4299**
Prep Method: **SW-846 5035 SL**
Prep Date/Time: **11/06/2012 11:38**
Prep Initial Wt./Vol.: **6.81 g**
Prep Extract Vol: **5 mL**

Print Date: 11/28/2012

N.C. Certification # 481

Results of **SB40-4-5**

Client Sample ID: **SB40-4-5**
Client Project ID: **2012.0009**
Lab Sample ID: 31203610015-B
Lab Project ID: 31203610

Collection Date: 11/01/2012 09:05
Received Date: 11/02/2012 14:00
Matrix: Soil-Solid as dry weight
Solids (%): 86.40

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	U	0.612	4.32	ug/Kg	1	11/13/2012 11:20
1,1,1-Trichloroethane	ND	U	0.651	4.32	ug/Kg	1	11/13/2012 11:20
1,1,2,2-Tetrachloroethane	ND	U	1.01	4.32	ug/Kg	1	11/13/2012 11:20
1,1,2-Trichloroethane	ND	U	0.898	4.32	ug/Kg	1	11/13/2012 11:20
1,1-Dichloroethane	**7.51**		0.465	4.32	ug/Kg	1	11/13/2012 11:20
1,1-Dichloroethene	**62.2**		1.00	4.32	ug/Kg	1	11/13/2012 11:20
1,1-Dichloropropene	ND	U	0.584	4.32	ug/Kg	1	11/13/2012 11:20
1,2,3-Trichlorobenzene	ND	U	0.719	4.32	ug/Kg	1	11/13/2012 11:20
1,2,3-Trichloropropane	ND	U	0.890	4.32	ug/Kg	1	11/13/2012 11:20
1,2,4-Trichlorobenzene	ND	U	0.630	4.32	ug/Kg	1	11/13/2012 11:20
1,2,4-Trimethylbenzene	ND	U	0.550	4.32	ug/Kg	1	11/13/2012 11:20
1,2-Dibromo-3-chloropropane	ND	U	6.40	25.9	ug/Kg	1	11/13/2012 11:20
1,2-Dibromoethane	ND	U	1.13	4.32	ug/Kg	1	11/13/2012 11:20
1,2-Dichlorobenzene	ND	U	0.614	4.32	ug/Kg	1	11/13/2012 11:20
1,2-Dichloroethane	ND	U	0.789	4.32	ug/Kg	1	11/13/2012 11:20
1,2-Dichloropropane	ND	U	0.993	4.32	ug/Kg	1	11/13/2012 11:20
1,3,5-Trimethylbenzene	ND	U	0.525	4.32	ug/Kg	1	11/13/2012 11:20
1,3-Dichlorobenzene	ND	U	0.621	4.32	ug/Kg	1	11/13/2012 11:20
1,3-Dichloropropane	ND	U	0.759	4.32	ug/Kg	1	11/13/2012 11:20
1,4-Dichlorobenzene	ND	U	0.583	4.32	ug/Kg	1	11/13/2012 11:20
2,2-Dichloropropane	ND	U	0.637	4.32	ug/Kg	1	11/13/2012 11:20
2-Butanone	ND	U	2.92	21.6	ug/Kg	1	11/13/2012 11:20
2-Chlorotoluene	ND	U	0.809	4.32	ug/Kg	1	11/13/2012 11:20
2-Hexanone	ND	U	2.78	10.8	ug/Kg	1	11/13/2012 11:20
4-Chlorotoluene	ND	U	0.653	4.32	ug/Kg	1	11/13/2012 11:20
4-Isopropyltoluene	ND	U	0.557	4.32	ug/Kg	1	11/13/2012 11:20
4-Methyl-2-pentanone	ND	U	3.23	10.8	ug/Kg	1	11/13/2012 11:20
Acetone	ND	U	3.46	43.2	ug/Kg	1	11/13/2012 11:20
Benzene	ND	U	0.614	4.32	ug/Kg	1	11/13/2012 11:20
Bromobenzene	ND	U	0.602	4.32	ug/Kg	1	11/13/2012 11:20
Bromochloromethane	ND	U	0.812	4.32	ug/Kg	1	11/13/2012 11:20
Bromodichloromethane	ND	U	0.608	4.32	ug/Kg	1	11/13/2012 11:20
Bromoform	ND	U	0.625	4.32	ug/Kg	1	11/13/2012 11:20
Bromomethane	ND	U	1.25	4.32	ug/Kg	1	11/13/2012 11:20
n-Butylbenzene	ND	U	0.567	4.32	ug/Kg	1	11/13/2012 11:20
Carbon disulfide	ND	U	0.452	4.32	ug/Kg	1	11/13/2012 11:20
Carbon tetrachloride	ND	U	0.491	4.32	ug/Kg	1	11/13/2012 11:20
Chlorobenzene	ND	U	0.603	4.32	ug/Kg	1	11/13/2012 11:20
Chloroethane	ND	U	0.864	4.32	ug/Kg	1	11/13/2012 11:20
Chloroform	ND	U	0.550	4.32	ug/Kg	1	11/13/2012 11:20
Chloromethane	ND	U	1.24	4.32	ug/Kg	1	11/13/2012 11:20
Dibromochloromethane	ND	U	0.959	4.32	ug/Kg	1	11/13/2012 11:20
Dibromomethane	ND	U	0.762	4.32	ug/Kg	1	11/13/2012 11:20

Print Date: 11/28/2012

N.C. Certification # 481

Results of **SB40-4-5**

Client Sample ID: **SB40-4-5**
Client Project ID: **2012.0009**
Lab Sample ID: 31203610015-B
Lab Project ID: 31203610

Collection Date: 11/01/2012 09:05
Received Date: 11/02/2012 14:00
Matrix: Soil-Solid as dry weight
Solids (%): 86.40

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
Dichlorodifluoromethane	ND	U	0.907	4.32	ug/Kg	1	11/13/2012 11:20
cis-1,3-Dichloropropene	ND	U	0.890	4.32	ug/Kg	1	11/13/2012 11:20
trans-1,3-Dichloropropene	ND	U	0.815	4.32	ug/Kg	1	11/13/2012 11:20
Diisopropyl Ether	ND	U	0.709	4.32	ug/Kg	1	11/13/2012 11:20
Ethyl Benzene	ND	U	0.609	4.32	ug/Kg	1	11/13/2012 11:20
Hexachlorobutadiene	ND	U	0.593	4.32	ug/Kg	1	11/13/2012 11:20
Isopropylbenzene (Cumene)	ND	U	0.537	4.32	ug/Kg	1	11/13/2012 11:20
Methyl iodide	ND	U	0.662	4.32	ug/Kg	1	11/13/2012 11:20
Methylene chloride	**2.02**	J	0.907	17.3	ug/Kg	1	11/13/2012 11:20
Naphthalene	ND	U	0.785	4.32	ug/Kg	1	11/13/2012 11:20
Styrene	ND	U	0.497	4.32	ug/Kg	1	11/13/2012 11:20
Tetrachloroethene	**339**	E	0.649	4.32	ug/Kg	1	11/13/2012 11:20
Toluene	ND	U	0.594	4.32	ug/Kg	1	11/13/2012 11:20
Trichloroethene	**93.3**		0.727	4.32	ug/Kg	1	11/13/2012 11:20
Trichlorofluoromethane	**1.04**	J	0.872	4.32	ug/Kg	1	11/13/2012 11:20
Vinyl chloride	**2.77**	J	0.821	4.32	ug/Kg	1	11/13/2012 11:20
Xylene (total)	ND	U	1.53	8.64	ug/Kg	1	11/13/2012 11:20
cis-1,2-Dichloroethene	**472**	E	0.528	4.32	ug/Kg	1	11/13/2012 11:20
m,p-Xylene	ND	U	1.46	8.64	ug/Kg	1	11/13/2012 11:20
n-Propylbenzene	ND	U	0.632	4.32	ug/Kg	1	11/13/2012 11:20
o-Xylene	ND	U	0.662	4.32	ug/Kg	1	11/13/2012 11:20
sec-Butylbenzene	ND	U	0.518	4.32	ug/Kg	1	11/13/2012 11:20
tert-Butyl methyl ether (MTBE)	ND	U	0.687	4.32	ug/Kg	1	11/13/2012 11:20
tert-Butylbenzene	ND	U	0.581	4.32	ug/Kg	1	11/13/2012 11:20
trans-1,2-Dichloroethene	ND	U	0.631	4.32	ug/Kg	1	11/13/2012 11:20
trans-1,4-Dichloro-2-butene	ND	U	3.63	21.6	ug/Kg	1	11/13/2012 11:20
Surrogates							
1,2-Dichloroethane-d4	105			55.0-173	%	1	11/13/2012 11:20
4-Bromofluorobenzene	98.0			23.0-141	%	1	11/13/2012 11:20
Toluene d8	100			57.0-134	%	1	11/13/2012 11:20

Batch Information

Analytical Batch: **VMS2732**
Analytical Method: **SW-846 8260B**
Instrument: **MSD9**
Analyst: **DVO**

Prep Batch: **VXX4321**
Prep Method: **SW-846 5035 SL**
Prep Date/Time: **11/06/2012 11:41**
Prep Initial Wt./Vol.: **6.7 g**
Prep Extract Vol: **5 mL**

Print Date: 11/28/2012

N.C. Certification # 481

Results of **SB40-5-6**

Client Sample ID: **SB40-5-6**
Client Project ID: **2012.0009**
Lab Sample ID: 31203610016-D
Lab Project ID: 31203610

Collection Date: 11/01/2012 09:15
Received Date: 11/02/2012 14:00
Matrix: Soil-Solid as dry weight
Solids (%): 82.90

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	U	4.57	43.9	ug/Kg	50	11/7/2012 15:20
1,1,1-Trichloroethane	ND	U	5.40	43.9	ug/Kg	50	11/7/2012 15:20
1,1,2,2-Tetrachloroethane	ND	U	6.85	43.9	ug/Kg	50	11/7/2012 15:20
1,1,2-Trichloroethane	ND	U	5.53	43.9	ug/Kg	50	11/7/2012 15:20
1,1-Dichloroethane	ND	U	7.25	43.9	ug/Kg	50	11/7/2012 15:20
1,1-Dichloroethene	**124**		9.31	43.9	ug/Kg	50	11/7/2012 15:20
1,1-Dichloropropene	ND	U	3.79	43.9	ug/Kg	50	11/7/2012 15:20
1,2,3-Trichlorobenzene	ND	U	4.83	43.9	ug/Kg	50	11/7/2012 15:20
1,2,3-Trichloropropane	ND	U	9.31	43.9	ug/Kg	50	11/7/2012 15:20
1,2,4-Trichlorobenzene	ND	U	4.01	43.9	ug/Kg	50	11/7/2012 15:20
1,2,4-Trimethylbenzene	ND	U	4.22	43.9	ug/Kg	50	11/7/2012 15:20
1,2-Dibromo-3-chloropropane	ND	U	32.8	220	ug/Kg	50	11/7/2012 15:20
1,2-Dibromoethane	ND	U	5.27	43.9	ug/Kg	50	11/7/2012 15:20
1,2-Dichlorobenzene	ND	U	6.02	43.9	ug/Kg	50	11/7/2012 15:20
1,2-Dichloroethane	ND	U	7.33	43.9	ug/Kg	50	11/7/2012 15:20
1,2-Dichloropropane	ND	U	7.16	43.9	ug/Kg	50	11/7/2012 15:20
1,3,5-Trimethylbenzene	ND	U	4.96	43.9	ug/Kg	50	11/7/2012 15:20
1,3-Dichlorobenzene	ND	U	4.52	43.9	ug/Kg	50	11/7/2012 15:20
1,3-Dichloropropane	ND	U	5.71	43.9	ug/Kg	50	11/7/2012 15:20
1,4-Dichlorobenzene	ND	U	5.71	43.9	ug/Kg	50	11/7/2012 15:20
2,2-Dichloropropane	ND	U	17.3	43.9	ug/Kg	50	11/7/2012 15:20
2-Butanone	ND	U	31.7	1100	ug/Kg	50	11/7/2012 15:20
2-Chlorotoluene	ND	U	4.96	43.9	ug/Kg	50	11/7/2012 15:20
2-Hexanone	ND	U	32.0	220	ug/Kg	50	11/7/2012 15:20
4-Chlorotoluene	ND	U	5.49	43.9	ug/Kg	50	11/7/2012 15:20
4-Isopropyltoluene	ND	U	3.38	43.9	ug/Kg	50	11/7/2012 15:20
4-Methyl-2-pentanone	ND	U	24.5	220	ug/Kg	50	11/7/2012 15:20
Acetone	ND	U	37.9	1100	ug/Kg	50	11/7/2012 15:20
Benzene	ND	U	4.96	43.9	ug/Kg	50	11/7/2012 15:20
Bromobenzene	ND	U	4.83	43.9	ug/Kg	50	11/7/2012 15:20
Bromochloromethane	ND	U	9.27	43.9	ug/Kg	50	11/7/2012 15:20
Bromodichloromethane	ND	U	4.83	43.9	ug/Kg	50	11/7/2012 15:20
Bromoform	ND	U	4.28	43.9	ug/Kg	50	11/7/2012 15:20
Bromomethane	ND	U	10.4	43.9	ug/Kg	50	11/7/2012 15:20
n-Butylbenzene	ND	U	3.38	43.9	ug/Kg	50	11/7/2012 15:20
Carbon disulfide	ND	U	4.65	43.9	ug/Kg	50	11/7/2012 15:20
Carbon tetrachloride	ND	U	4.44	43.9	ug/Kg	50	11/7/2012 15:20
Chlorobenzene	ND	U	5.09	43.9	ug/Kg	50	11/7/2012 15:20
Chloroethane	ND	U	13.7	43.9	ug/Kg	50	11/7/2012 15:20
Chloroform	ND	U	6.10	43.9	ug/Kg	50	11/7/2012 15:20
Chloromethane	ND	U	19.7	43.9	ug/Kg	50	11/7/2012 15:20
Dibromochloromethane	ND	U	5.88	43.9	ug/Kg	50	11/7/2012 15:20
Dibromomethane	ND	U	7.38	43.9	ug/Kg	50	11/7/2012 15:20

Print Date: 11/28/2012

N.C. Certification # 481

Results of **SB40-5-6**

Client Sample ID: **SB40-5-6**
Client Project ID: **2012.0009**
Lab Sample ID: 31203610016-D
Lab Project ID: 31203610

Collection Date: 11/01/2012 09:15
Received Date: 11/02/2012 14:00
Matrix: Soil-Solid as dry weight
Solids (%): 82.90

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
Dichlorodifluoromethane	ND	U	7.51	220	ug/Kg	50	11/7/2012 15:20
cis-1,3-Dichloropropene	ND	U	3.37	43.9	ug/Kg	50	11/7/2012 15:20
trans-1,3-Dichloropropene	ND	U	3.79	43.9	ug/Kg	50	11/7/2012 15:20
Diisopropyl Ether	ND	U	12.9	43.9	ug/Kg	50	11/7/2012 15:20
Ethyl Benzene	ND	U	3.85	43.9	ug/Kg	50	11/7/2012 15:20
Hexachlorobutadiene	ND	U	3.48	43.9	ug/Kg	50	11/7/2012 15:20
Isopropylbenzene (Cumene)	ND	U	3.82	43.9	ug/Kg	50	11/7/2012 15:20
Methyl iodide	ND	U	5.05	43.9	ug/Kg	50	11/7/2012 15:20
Methylene chloride	ND	U	6.67	220	ug/Kg	50	11/7/2012 15:20
Naphthalene	ND	U	3.75	43.9	ug/Kg	50	11/7/2012 15:20
Styrene	ND	U	4.48	43.9	ug/Kg	50	11/7/2012 15:20
Tetrachloroethene	**1100**		6.81	43.9	ug/Kg	50	11/7/2012 15:20
Toluene	ND	U	5.84	43.9	ug/Kg	50	11/7/2012 15:20
Trichloroethene	**208**		5.49	43.9	ug/Kg	50	11/7/2012 15:20
Trichlorofluoromethane	ND	U	6.02	43.9	ug/Kg	50	11/7/2012 15:20
Vinyl chloride	ND	U	5.44	43.9	ug/Kg	50	11/7/2012 15:20
Xylene (total)	ND	U	7.99	87.8	ug/Kg	50	11/7/2012 15:20
cis-1,2-Dichloroethene	**652**		5.97	43.9	ug/Kg	50	11/7/2012 15:20
m,p-Xylene	ND	U	7.99	87.8	ug/Kg	50	11/7/2012 15:20
n-Propylbenzene	ND	U	4.96	43.9	ug/Kg	50	11/7/2012 15:20
o-Xylene	ND	U	3.84	43.9	ug/Kg	50	11/7/2012 15:20
sec-Butylbenzene	ND	U	4.92	43.9	ug/Kg	50	11/7/2012 15:20
tert-Butyl methyl ether (MTBE)	ND	U	6.32	43.9	ug/Kg	50	11/7/2012 15:20
tert-Butylbenzene	ND	U	3.75	43.9	ug/Kg	50	11/7/2012 15:20
trans-1,2-Dichloroethene	ND	U	9.79	43.9	ug/Kg	50	11/7/2012 15:20
trans-1,4-Dichloro-2-butene	ND	U	18.2	220	ug/Kg	50	11/7/2012 15:20
Surrogates							
1,2-Dichloroethane-d4	105			55.0-173	%	50	11/7/2012 15:20
4-Bromofluorobenzene	98.0			23.0-141	%	50	11/7/2012 15:20
Toluene d8	104			57.0-134	%	50	11/7/2012 15:20

Batch Information

Analytical Batch: **VMS2720**
Analytical Method: **SW-846 8260B**
Instrument: **MSD8**
Analyst: **DVO**

Prep Batch: **VXX4308**
Prep Method: **SW-846 5035 SM**
Prep Date/Time: **11/06/2012 11:43**
Prep Initial Wt./Vol.: **6.87 g**
Prep Extract Vol: **5 mL**

Print Date: 11/28/2012

N.C. Certification # 481

Results of **SB40-6-7**

Client Sample ID: **SB40-6-7**
Client Project ID: **2012.0009**
Lab Sample ID: 31203610017-D
Lab Project ID: 31203610

Collection Date: 11/01/2012 09:20
Received Date: 11/02/2012 14:00
Matrix: Soil-Solid as dry weight
Solids (%): 83.50

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	U	9.20	88.5	ug/Kg	100	11/7/2012 17:23
1,1,1-Trichloroethane	ND	U	10.9	88.5	ug/Kg	100	11/7/2012 17:23
1,1,2,2-Tetrachloroethane	ND	U	13.8	88.5	ug/Kg	100	11/7/2012 17:23
1,1,2-Trichloroethane	ND	U	11.1	88.5	ug/Kg	100	11/7/2012 17:23
1,1-Dichloroethane	ND	U	14.6	88.5	ug/Kg	100	11/7/2012 17:23
1,1-Dichloroethene	**148**		18.8	88.5	ug/Kg	100	11/7/2012 17:23
1,1-Dichloropropene	ND	U	7.64	88.5	ug/Kg	100	11/7/2012 17:23
1,2,3-Trichlorobenzene	ND	U	9.73	88.5	ug/Kg	100	11/7/2012 17:23
1,2,3-Trichloropropane	ND	U	18.8	88.5	ug/Kg	100	11/7/2012 17:23
1,2,4-Trichlorobenzene	ND	U	8.08	88.5	ug/Kg	100	11/7/2012 17:23
1,2,4-Trimethylbenzene	ND	U	8.50	88.5	ug/Kg	100	11/7/2012 17:23
1,2-Dibromo-3-chloropropane	ND	U	66.2	442	ug/Kg	100	11/7/2012 17:23
1,2-Dibromoethane	ND	U	10.6	88.5	ug/Kg	100	11/7/2012 17:23
1,2-Dichlorobenzene	ND	U	12.1	88.5	ug/Kg	100	11/7/2012 17:23
1,2-Dichloroethane	ND	U	14.8	88.5	ug/Kg	100	11/7/2012 17:23
1,2-Dichloropropane	ND	U	14.4	88.5	ug/Kg	100	11/7/2012 17:23
1,3,5-Trimethylbenzene	ND	U	10.0	88.5	ug/Kg	100	11/7/2012 17:23
1,3-Dichlorobenzene	ND	U	9.11	88.5	ug/Kg	100	11/7/2012 17:23
1,3-Dichloropropane	ND	U	11.5	88.5	ug/Kg	100	11/7/2012 17:23
1,4-Dichlorobenzene	ND	U	11.5	88.5	ug/Kg	100	11/7/2012 17:23
2,2-Dichloropropane	ND	U	34.8	88.5	ug/Kg	100	11/7/2012 17:23
2-Butanone	ND	U	64.0	2210	ug/Kg	100	11/7/2012 17:23
2-Chlorotoluene	ND	U	10.0	88.5	ug/Kg	100	11/7/2012 17:23
2-Hexanone	ND	U	64.4	442	ug/Kg	100	11/7/2012 17:23
4-Chlorotoluene	ND	U	11.1	88.5	ug/Kg	100	11/7/2012 17:23
4-Isopropyltoluene	ND	U	6.80	88.5	ug/Kg	100	11/7/2012 17:23
4-Methyl-2-pentanone	ND	U	49.4	442	ug/Kg	100	11/7/2012 17:23
Acetone	ND	U	76.4	2210	ug/Kg	100	11/7/2012 17:23
Benzene	ND	U	10.0	88.5	ug/Kg	100	11/7/2012 17:23
Bromobenzene	ND	U	9.73	88.5	ug/Kg	100	11/7/2012 17:23
Bromochloromethane	ND	U	18.7	88.5	ug/Kg	100	11/7/2012 17:23
Bromodichloromethane	ND	U	9.73	88.5	ug/Kg	100	11/7/2012 17:23
Bromoform	ND	U	8.62	88.5	ug/Kg	100	11/7/2012 17:23
Bromomethane	ND	U	21.0	88.5	ug/Kg	100	11/7/2012 17:23
n-Butylbenzene	ND	U	6.80	88.5	ug/Kg	100	11/7/2012 17:23
Carbon disulfide	ND	U	9.38	88.5	ug/Kg	100	11/7/2012 17:23
Carbon tetrachloride	ND	U	8.94	88.5	ug/Kg	100	11/7/2012 17:23
Chlorobenzene	ND	U	10.3	88.5	ug/Kg	100	11/7/2012 17:23
Chloroethane	ND	U	27.5	88.5	ug/Kg	100	11/7/2012 17:23
Chloroform	ND	U	12.3	88.5	ug/Kg	100	11/7/2012 17:23
Chloromethane	ND	U	39.6	88.5	ug/Kg	100	11/7/2012 17:23
Dibromochloromethane	ND	U	11.9	88.5	ug/Kg	100	11/7/2012 17:23
Dibromomethane	ND	U	14.9	88.5	ug/Kg	100	11/7/2012 17:23

Print Date: 11/28/2012

N.C. Certification # 481

Results of **SB40-6-7**

Client Sample ID: **SB40-6-7**
Client Project ID: **2012.0009**
Lab Sample ID: 31203610017-D
Lab Project ID: 31203610

Collection Date: 11/01/2012 09:20
Received Date: 11/02/2012 14:00
Matrix: Soil-Solid as dry weight
Solids (%): 83.50

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
Dichlorodifluoromethane	ND	U	15.1	442	ug/Kg	100	11/7/2012 17:23
cis-1,3-Dichloropropene	ND	U	6.79	88.5	ug/Kg	100	11/7/2012 17:23
trans-1,3-Dichloropropene	ND	U	7.63	88.5	ug/Kg	100	11/7/2012 17:23
Diisopropyl Ether	ND	U	26.0	88.5	ug/Kg	100	11/7/2012 17:23
Ethyl Benzene	ND	U	7.76	88.5	ug/Kg	100	11/7/2012 17:23
Hexachlorobutadiene	ND	U	7.01	88.5	ug/Kg	100	11/7/2012 17:23
Isopropylbenzene (Cumene)	ND	U	7.69	88.5	ug/Kg	100	11/7/2012 17:23
Methyl iodide	ND	U	10.2	88.5	ug/Kg	100	11/7/2012 17:23
Methylene chloride	ND	U	13.4	442	ug/Kg	100	11/7/2012 17:23
Naphthalene	ND	U	7.56	88.5	ug/Kg	100	11/7/2012 17:23
Styrene	ND	U	9.02	88.5	ug/Kg	100	11/7/2012 17:23
Tetrachloroethene	**1650**		13.7	88.5	ug/Kg	100	11/7/2012 17:23
Toluene	ND	U	11.8	88.5	ug/Kg	100	11/7/2012 17:23
Trichloroethene	**247**		11.1	88.5	ug/Kg	100	11/7/2012 17:23
Trichlorofluoromethane	ND	U	12.1	88.5	ug/Kg	100	11/7/2012 17:23
Vinyl chloride	ND	U	11.0	88.5	ug/Kg	100	11/7/2012 17:23
Xylene (total)	ND	U	16.1	177	ug/Kg	100	11/7/2012 17:23
cis-1,2-Dichloroethene	**465**		12.0	88.5	ug/Kg	100	11/7/2012 17:23
m,p-Xylene	ND	U	16.1	177	ug/Kg	100	11/7/2012 17:23
n-Propylbenzene	ND	U	10.0	88.5	ug/Kg	100	11/7/2012 17:23
o-Xylene	ND	U	7.73	88.5	ug/Kg	100	11/7/2012 17:23
sec-Butylbenzene	ND	U	9.91	88.5	ug/Kg	100	11/7/2012 17:23
tert-Butyl methyl ether (MTBE)	ND	U	12.7	88.5	ug/Kg	100	11/7/2012 17:23
tert-Butylbenzene	ND	U	7.56	88.5	ug/Kg	100	11/7/2012 17:23
trans-1,2-Dichloroethene	ND	U	19.7	88.5	ug/Kg	100	11/7/2012 17:23
trans-1,4-Dichloro-2-butene	ND	U	36.6	442	ug/Kg	100	11/7/2012 17:23
Surrogates							
1,2-Dichloroethane-d4	99.0			55.0-173	%	100	11/7/2012 17:23
4-Bromofluorobenzene	98.0			23.0-141	%	100	11/7/2012 17:23
Toluene d8	100			57.0-134	%	100	11/7/2012 17:23

Batch Information

Analytical Batch: **VMS2720**
Analytical Method: **SW-846 8260B**
Instrument: **MSD8**
Analyst: **DVO**

Prep Batch: **VXX4308**
Prep Method: **SW-846 5035 SM**
Prep Date/Time: **11/06/2012 11:45**
Prep Initial Wt./Vol.: **6.77 g**
Prep Extract Vol: **5 mL**

Print Date: 11/28/2012

N.C. Certification # 481

Results of **SB40-7-8**

Client Sample ID: **SB40-7-8**
Client Project ID: **2012.0009**
Lab Sample ID: 31203610018-D
Lab Project ID: 31203610

Collection Date: 11/01/2012 09:30
Received Date: 11/02/2012 14:00
Matrix: Soil-Solid as dry weight
Solids (%): 78.40

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	U	9.76	93.8	ug/Kg	100	11/7/2012 17:48
1,1,1-Trichloroethane	ND	U	11.5	93.8	ug/Kg	100	11/7/2012 17:48
1,1,2,2-Tetrachloroethane	ND	U	14.6	93.8	ug/Kg	100	11/7/2012 17:48
1,1,2-Trichloroethane	ND	U	11.8	93.8	ug/Kg	100	11/7/2012 17:48
1,1-Dichloroethane	ND	U	15.5	93.8	ug/Kg	100	11/7/2012 17:48
1,1-Dichloroethene	**175**		19.9	93.8	ug/Kg	100	11/7/2012 17:48
1,1-Dichloropropene	ND	U	8.10	93.8	ug/Kg	100	11/7/2012 17:48
1,2,3-Trichlorobenzene	ND	U	10.3	93.8	ug/Kg	100	11/7/2012 17:48
1,2,3-Trichloropropane	ND	U	19.9	93.8	ug/Kg	100	11/7/2012 17:48
1,2,4-Trichlorobenzene	ND	U	8.57	93.8	ug/Kg	100	11/7/2012 17:48
1,2,4-Trimethylbenzene	ND	U	9.02	93.8	ug/Kg	100	11/7/2012 17:48
1,2-Dibromo-3-chloropropane	ND	U	70.2	469	ug/Kg	100	11/7/2012 17:48
1,2-Dibromoethane	ND	U	11.3	93.8	ug/Kg	100	11/7/2012 17:48
1,2-Dichlorobenzene	ND	U	12.9	93.8	ug/Kg	100	11/7/2012 17:48
1,2-Dichloroethane	ND	U	15.7	93.8	ug/Kg	100	11/7/2012 17:48
1,2-Dichloropropane	ND	U	15.3	93.8	ug/Kg	100	11/7/2012 17:48
1,3,5-Trimethylbenzene	ND	U	10.6	93.8	ug/Kg	100	11/7/2012 17:48
1,3-Dichlorobenzene	ND	U	9.67	93.8	ug/Kg	100	11/7/2012 17:48
1,3-Dichloropropane	ND	U	12.2	93.8	ug/Kg	100	11/7/2012 17:48
1,4-Dichlorobenzene	ND	U	12.2	93.8	ug/Kg	100	11/7/2012 17:48
2,2-Dichloropropane	ND	U	36.9	93.8	ug/Kg	100	11/7/2012 17:48
2-Butanone	ND	U	67.8	2350	ug/Kg	100	11/7/2012 17:48
2-Chlorotoluene	ND	U	10.6	93.8	ug/Kg	100	11/7/2012 17:48
2-Hexanone	ND	U	68.3	469	ug/Kg	100	11/7/2012 17:48
4-Chlorotoluene	ND	U	11.7	93.8	ug/Kg	100	11/7/2012 17:48
4-Isopropyltoluene	ND	U	7.22	93.8	ug/Kg	100	11/7/2012 17:48
4-Methyl-2-pentanone	ND	U	52.4	469	ug/Kg	100	11/7/2012 17:48
Acetone	ND	U	81.1	2350	ug/Kg	100	11/7/2012 17:48
Benzene	ND	U	10.6	93.8	ug/Kg	100	11/7/2012 17:48
Bromobenzene	ND	U	10.3	93.8	ug/Kg	100	11/7/2012 17:48
Bromochloromethane	ND	U	19.8	93.8	ug/Kg	100	11/7/2012 17:48
Bromodichloromethane	ND	U	10.3	93.8	ug/Kg	100	11/7/2012 17:48
Bromoform	ND	U	9.14	93.8	ug/Kg	100	11/7/2012 17:48
Bromomethane	ND	U	22.2	93.8	ug/Kg	100	11/7/2012 17:48
n-Butylbenzene	ND	U	7.22	93.8	ug/Kg	100	11/7/2012 17:48
Carbon disulfide	ND	U	9.95	93.8	ug/Kg	100	11/7/2012 17:48
Carbon tetrachloride	ND	U	9.48	93.8	ug/Kg	100	11/7/2012 17:48
Chlorobenzene	ND	U	10.9	93.8	ug/Kg	100	11/7/2012 17:48
Chloroethane	ND	U	29.2	93.8	ug/Kg	100	11/7/2012 17:48
Chloroform	ND	U	13.0	93.8	ug/Kg	100	11/7/2012 17:48
Chloromethane	ND	U	42.0	93.8	ug/Kg	100	11/7/2012 17:48
Dibromochloromethane	ND	U	12.6	93.8	ug/Kg	100	11/7/2012 17:48
Dibromomethane	ND	U	15.8	93.8	ug/Kg	100	11/7/2012 17:48

Print Date: 11/28/2012

N.C. Certification # 481

Results of **SB40-7-8**

Client Sample ID: **SB40-7-8**
Client Project ID: **2012.0009**
Lab Sample ID: 31203610018-D
Lab Project ID: 31203610

Collection Date: 11/01/2012 09:30
Received Date: 11/02/2012 14:00
Matrix: Soil-Solid as dry weight
Solids (%): 78.40

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
Dichlorodifluoromethane	ND	U	16.0	469	ug/Kg	100	11/7/2012 17:48
cis-1,3-Dichloropropene	ND	U	7.20	93.8	ug/Kg	100	11/7/2012 17:48
trans-1,3-Dichloropropene	ND	U	8.09	93.8	ug/Kg	100	11/7/2012 17:48
Diisopropyl Ether	ND	U	27.6	93.8	ug/Kg	100	11/7/2012 17:48
Ethyl Benzene	ND	U	8.23	93.8	ug/Kg	100	11/7/2012 17:48
Hexachlorobutadiene	ND	U	7.43	93.8	ug/Kg	100	11/7/2012 17:48
Isopropylbenzene (Cumene)	ND	U	8.15	93.8	ug/Kg	100	11/7/2012 17:48
Methyl iodide	ND	U	10.8	93.8	ug/Kg	100	11/7/2012 17:48
Methylene chloride	ND	U	14.3	469	ug/Kg	100	11/7/2012 17:48
Naphthalene	ND	U	8.02	93.8	ug/Kg	100	11/7/2012 17:48
Styrene	ND	U	9.57	93.8	ug/Kg	100	11/7/2012 17:48
Tetrachloroethene	**2160**		14.5	93.8	ug/Kg	100	11/7/2012 17:48
Toluene	ND	U	12.5	93.8	ug/Kg	100	11/7/2012 17:48
Trichloroethene	**252**		11.7	93.8	ug/Kg	100	11/7/2012 17:48
Trichlorofluoromethane	ND	U	12.9	93.8	ug/Kg	100	11/7/2012 17:48
Vinyl chloride	ND	U	11.6	93.8	ug/Kg	100	11/7/2012 17:48
Xylene (total)	ND	U	17.1	188	ug/Kg	100	11/7/2012 17:48
cis-1,2-Dichloroethene	**218**		12.8	93.8	ug/Kg	100	11/7/2012 17:48
m,p-Xylene	ND	U	17.1	188	ug/Kg	100	11/7/2012 17:48
n-Propylbenzene	ND	U	10.6	93.8	ug/Kg	100	11/7/2012 17:48
o-Xylene	ND	U	8.20	93.8	ug/Kg	100	11/7/2012 17:48
sec-Butylbenzene	ND	U	10.5	93.8	ug/Kg	100	11/7/2012 17:48
tert-Butyl methyl ether (MTBE)	ND	U	13.5	93.8	ug/Kg	100	11/7/2012 17:48
tert-Butylbenzene	ND	U	8.02	93.8	ug/Kg	100	11/7/2012 17:48
trans-1,2-Dichloroethene	ND	U	20.9	93.8	ug/Kg	100	11/7/2012 17:48
trans-1,4-Dichloro-2-butene	ND	U	38.8	469	ug/Kg	100	11/7/2012 17:48
Surrogates							
1,2-Dichloroethane-d4	101			55.0-173	%	100	11/7/2012 17:48
4-Bromofluorobenzene	99.0			23.0-141	%	100	11/7/2012 17:48
Toluene d8	103			57.0-134	%	100	11/7/2012 17:48

Batch Information

Analytical Batch: **VMS2720**
Analytical Method: **SW-846 8260B**
Instrument: **MSD8**
Analyst: **DVO**

Prep Batch: **VXX4308**
Prep Method: **SW-846 5035 SM**
Prep Date/Time: **11/06/2012 11:48**
Prep Initial Wt./Vol.: **6.8 g**
Prep Extract Vol: **5 mL**

Print Date: 11/28/2012

N.C. Certification # 481

Results of **SB41-0-1**

Client Sample ID: **SB41-0-1**
Client Project ID: **2012.0009**
Lab Sample ID: 31203610019-B
Lab Project ID: 31203610

Collection Date: 11/01/2012 10:35
Received Date: 11/02/2012 14:00
Matrix: Soil-Solid as dry weight
Solids (%): 86.60

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	U	0.412	4.19	ug/Kg	1	11/8/2012 16:59
1,1,1-Trichloroethane	**0.678**	J	0.353	4.19	ug/Kg	1	11/8/2012 16:59
1,1,2,2-Tetrachloroethane	ND	U	0.687	4.19	ug/Kg	1	11/8/2012 16:59
1,1,2-Trichloroethane	ND	U	0.508	4.19	ug/Kg	1	11/8/2012 16:59
1,1-Dichloroethane	ND	U	0.493	4.19	ug/Kg	1	11/8/2012 16:59
1,1-Dichloroethene	ND	U	2.50	4.19	ug/Kg	1	11/8/2012 16:59
1,1-Dichloropropene	ND	U	0.402	4.19	ug/Kg	1	11/8/2012 16:59
1,2,3-Trichlorobenzene	ND	U	0.348	4.19	ug/Kg	1	11/8/2012 16:59
1,2,3-Trichloropropane	ND	U	0.520	4.19	ug/Kg	1	11/8/2012 16:59
1,2,4-Trichlorobenzene	ND	U	0.342	4.19	ug/Kg	1	11/8/2012 16:59
1,2,4-Trimethylbenzene	ND	U	0.403	4.19	ug/Kg	1	11/8/2012 16:59
1,2-Dibromo-3-chloropropane	ND	U	5.34	25.1	ug/Kg	1	11/8/2012 16:59
1,2-Dibromoethane	ND	U	0.469	4.19	ug/Kg	1	11/8/2012 16:59
1,2-Dichlorobenzene	ND	U	0.556	4.19	ug/Kg	1	11/8/2012 16:59
1,2-Dichloroethane	ND	U	0.686	4.19	ug/Kg	1	11/8/2012 16:59
1,2-Dichloropropane	ND	U	0.385	4.19	ug/Kg	1	11/8/2012 16:59
1,3,5-Trimethylbenzene	ND	U	0.684	4.19	ug/Kg	1	11/8/2012 16:59
1,3-Dichlorobenzene	ND	U	0.318	4.19	ug/Kg	1	11/8/2012 16:59
1,3-Dichloropropane	ND	U	0.568	4.19	ug/Kg	1	11/8/2012 16:59
1,4-Dichlorobenzene	ND	U	0.411	4.19	ug/Kg	1	11/8/2012 16:59
2,2-Dichloropropane	ND	U	0.400	4.19	ug/Kg	1	11/8/2012 16:59
2-Butanone	ND	U	2.24	20.9	ug/Kg	1	11/8/2012 16:59
2-Chlorotoluene	ND	U	0.575	4.19	ug/Kg	1	11/8/2012 16:59
2-Hexanone	ND	U	2.35	10.5	ug/Kg	1	11/8/2012 16:59
4-Chlorotoluene	ND	U	0.401	4.19	ug/Kg	1	11/8/2012 16:59
4-Isopropyltoluene	ND	U	0.472	4.19	ug/Kg	1	11/8/2012 16:59
4-Methyl-2-pentanone	ND	U	1.73	10.5	ug/Kg	1	11/8/2012 16:59
Acetone	**7.72**	J	3.13	41.9	ug/Kg	1	11/8/2012 16:59
Benzene	ND	U	0.325	4.19	ug/Kg	1	11/8/2012 16:59
Bromobenzene	ND	U	0.782	4.19	ug/Kg	1	11/8/2012 16:59
Bromochloromethane	ND	U	1.23	4.19	ug/Kg	1	11/8/2012 16:59
Bromodichloromethane	ND	U	0.570	4.19	ug/Kg	1	11/8/2012 16:59
Bromoform	ND	U	1.92	4.19	ug/Kg	1	11/8/2012 16:59
Bromomethane	ND	U	1.43	4.19	ug/Kg	1	11/8/2012 16:59
n-Butylbenzene	ND	U	0.354	4.19	ug/Kg	1	11/8/2012 16:59
Carbon disulfide	ND	U	0.687	4.19	ug/Kg	1	11/8/2012 16:59
Carbon tetrachloride	ND	U	0.469	4.19	ug/Kg	1	11/8/2012 16:59
Chlorobenzene	ND	U	0.408	4.19	ug/Kg	1	11/8/2012 16:59
Chloroethane	ND	U	1.03	4.19	ug/Kg	1	11/8/2012 16:59
Chloroform	ND	U	0.431	4.19	ug/Kg	1	11/8/2012 16:59
Chloromethane	ND	U	0.541	4.19	ug/Kg	1	11/8/2012 16:59
Dibromochloromethane	ND	U	0.679	4.19	ug/Kg	1	11/8/2012 16:59
Dibromomethane	ND	U	0.486	4.19	ug/Kg	1	11/8/2012 16:59

Print Date: 11/28/2012

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Results of **SB41-0-1**

Client Sample ID: **SB41-0-1**
Client Project ID: **2012.0009**
Lab Sample ID: 31203610019-B
Lab Project ID: 31203610

Collection Date: 11/01/2012 10:35
Received Date: 11/02/2012 14:00
Matrix: Soil-Solid as dry weight
Solids (%): 86.60

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
Dichlorodifluoromethane	ND	U	0.627	4.19	ug/Kg	1	11/8/2012 16:59
cis-1,3-Dichloropropene	ND	U	0.420	4.19	ug/Kg	1	11/8/2012 16:59
trans-1,3-Dichloropropene	ND	U	0.446	4.19	ug/Kg	1	11/8/2012 16:59
Diisopropyl Ether	ND	U	0.570	4.19	ug/Kg	1	11/8/2012 16:59
Ethyl Benzene	ND	U	0.370	4.19	ug/Kg	1	11/8/2012 16:59
Hexachlorobutadiene	ND	U	0.496	4.19	ug/Kg	1	11/8/2012 16:59
Isopropylbenzene (Cumene)	ND	U	0.313	4.19	ug/Kg	1	11/8/2012 16:59
Methyl iodide	ND	U	0.450	4.19	ug/Kg	1	11/8/2012 16:59
Methylene chloride	**1.20**	J	0.757	16.8	ug/Kg	1	11/8/2012 16:59
Naphthalene	ND	U	0.529	4.19	ug/Kg	1	11/8/2012 16:59
Styrene	ND	U	0.446	4.19	ug/Kg	1	11/8/2012 16:59
Tetrachloroethene	**26.5**		0.486	4.19	ug/Kg	1	11/8/2012 16:59
Toluene	ND	U	0.581	4.19	ug/Kg	1	11/8/2012 16:59
Trichloroethene	ND	U	0.539	4.19	ug/Kg	1	11/8/2012 16:59
Trichlorofluoromethane	ND	U	0.477	4.19	ug/Kg	1	11/8/2012 16:59
Vinyl chloride	ND	U	0.664	4.19	ug/Kg	1	11/8/2012 16:59
Xylene (total)	ND	U	1.48	8.38	ug/Kg	1	11/8/2012 16:59
cis-1,2-Dichloroethene	ND	U	0.560	4.19	ug/Kg	1	11/8/2012 16:59
m,p-Xylene	ND	U	0.653	8.38	ug/Kg	1	11/8/2012 16:59
n-Propylbenzene	ND	U	0.406	4.19	ug/Kg	1	11/8/2012 16:59
o-Xylene	ND	U	0.597	4.19	ug/Kg	1	11/8/2012 16:59
sec-Butylbenzene	ND	U	0.407	4.19	ug/Kg	1	11/8/2012 16:59
tert-Butyl methyl ether (MTBE)	ND	U	0.577	4.19	ug/Kg	1	11/8/2012 16:59
tert-Butylbenzene	ND	U	0.329	4.19	ug/Kg	1	11/8/2012 16:59
trans-1,2-Dichloroethene	ND	U	0.645	4.19	ug/Kg	1	11/8/2012 16:59
trans-1,4-Dichloro-2-butene	ND	U	4.92	20.9	ug/Kg	1	11/8/2012 16:59
Surrogates							
1,2-Dichloroethane-d4	111			55.0-173	%	1	11/8/2012 16:59
4-Bromofluorobenzene	96.0			23.0-141	%	1	11/8/2012 16:59
Toluene d8	100			57.0-134	%	1	11/8/2012 16:59

Batch Information

Analytical Batch: **VMS2723**
Analytical Method: **SW-846 8260B**
Instrument: **MSD2**
Analyst: **DVO**

Prep Batch: **VXX4300**
Prep Method: **SW-846 5035 SL**
Prep Date/Time: **11/06/2012 11:49**
Prep Initial Wt./Vol.: **6.89 g**
Prep Extract Vol: **5 mL**

Print Date: 11/28/2012

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Results of **SB41-1-2**

Client Sample ID: **SB41-1-2**
Client Project ID: **2012.0009**
Lab Sample ID: 31203610020-D
Lab Project ID: 31203610

Collection Date: 11/01/2012 10:45
Received Date: 11/02/2012 14:00
Matrix: Soil-Solid as dry weight
Solids (%): 83.70

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	U	4.38	42.1	ug/Kg	50	11/7/2012 15:45
1,1,1-Trichloroethane	ND	U	5.18	42.1	ug/Kg	50	11/7/2012 15:45
1,1,2,2-Tetrachloroethane	ND	U	6.57	42.1	ug/Kg	50	11/7/2012 15:45
1,1,2-Trichloroethane	ND	U	5.31	42.1	ug/Kg	50	11/7/2012 15:45
1,1-Dichloroethane	ND	U	6.95	42.1	ug/Kg	50	11/7/2012 15:45
1,1-Dichloroethene	ND	U	8.93	42.1	ug/Kg	50	11/7/2012 15:45
1,1-Dichloropropene	ND	U	3.64	42.1	ug/Kg	50	11/7/2012 15:45
1,2,3-Trichlorobenzene	ND	U	4.64	42.1	ug/Kg	50	11/7/2012 15:45
1,2,3-Trichloropropane	ND	U	8.93	42.1	ug/Kg	50	11/7/2012 15:45
1,2,4-Trichlorobenzene	ND	U	3.85	42.1	ug/Kg	50	11/7/2012 15:45
1,2,4-Trimethylbenzene	ND	U	4.05	42.1	ug/Kg	50	11/7/2012 15:45
1,2-Dibromo-3-chloropropane	ND	U	31.5	211	ug/Kg	50	11/7/2012 15:45
1,2-Dibromoethane	ND	U	5.06	42.1	ug/Kg	50	11/7/2012 15:45
1,2-Dichlorobenzene	ND	U	5.77	42.1	ug/Kg	50	11/7/2012 15:45
1,2-Dichloroethane	ND	U	7.04	42.1	ug/Kg	50	11/7/2012 15:45
1,2-Dichloropropane	ND	U	6.87	42.1	ug/Kg	50	11/7/2012 15:45
1,3,5-Trimethylbenzene	ND	U	4.76	42.1	ug/Kg	50	11/7/2012 15:45
1,3-Dichlorobenzene	ND	U	4.34	42.1	ug/Kg	50	11/7/2012 15:45
1,3-Dichloropropane	ND	U	5.48	42.1	ug/Kg	50	11/7/2012 15:45
1,4-Dichlorobenzene	ND	U	5.48	42.1	ug/Kg	50	11/7/2012 15:45
2,2-Dichloropropane	ND	U	16.6	42.1	ug/Kg	50	11/7/2012 15:45
2-Butanone	ND	U	30.5	1050	ug/Kg	50	11/7/2012 15:45
2-Chlorotoluene	ND	U	4.76	42.1	ug/Kg	50	11/7/2012 15:45
2-Hexanone	ND	U	30.7	211	ug/Kg	50	11/7/2012 15:45
4-Chlorotoluene	ND	U	5.27	42.1	ug/Kg	50	11/7/2012 15:45
4-Isopropyltoluene	ND	U	3.24	42.1	ug/Kg	50	11/7/2012 15:45
4-Methyl-2-pentanone	ND	U	23.5	211	ug/Kg	50	11/7/2012 15:45
Acetone	ND	U	36.4	1050	ug/Kg	50	11/7/2012 15:45
Benzene	ND	U	4.76	42.1	ug/Kg	50	11/7/2012 15:45
Bromobenzene	ND	U	4.64	42.1	ug/Kg	50	11/7/2012 15:45
Bromochloromethane	ND	U	8.89	42.1	ug/Kg	50	11/7/2012 15:45
Bromodichloromethane	ND	U	4.64	42.1	ug/Kg	50	11/7/2012 15:45
Bromoform	ND	U	4.10	42.1	ug/Kg	50	11/7/2012 15:45
Bromomethane	ND	U	9.99	42.1	ug/Kg	50	11/7/2012 15:45
n-Butylbenzene	ND	U	3.24	42.1	ug/Kg	50	11/7/2012 15:45
Carbon disulfide	ND	U	4.47	42.1	ug/Kg	50	11/7/2012 15:45
Carbon tetrachloride	ND	U	4.26	42.1	ug/Kg	50	11/7/2012 15:45
Chlorobenzene	ND	U	4.89	42.1	ug/Kg	50	11/7/2012 15:45
Chloroethane	ND	U	13.1	42.1	ug/Kg	50	11/7/2012 15:45
Chloroform	ND	U	5.86	42.1	ug/Kg	50	11/7/2012 15:45
Chloromethane	ND	U	18.9	42.1	ug/Kg	50	11/7/2012 15:45
Dibromochloromethane	ND	U	5.65	42.1	ug/Kg	50	11/7/2012 15:45
Dibromomethane	ND	U	7.08	42.1	ug/Kg	50	11/7/2012 15:45

Print Date: 11/28/2012

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Results of **SB41-1-2**

Client Sample ID: **SB41-1-2**
Client Project ID: **2012.0009**
Lab Sample ID: 31203610020-D
Lab Project ID: 31203610

Collection Date: 11/01/2012 10:45
Received Date: 11/02/2012 14:00
Matrix: Soil-Solid as dry weight
Solids (%): 83.70

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
Dichlorodifluoromethane	ND	U	7.21	211	ug/Kg	50	11/7/2012 15:45
cis-1,3-Dichloropropene	ND	U	3.23	42.1	ug/Kg	50	11/7/2012 15:45
trans-1,3-Dichloropropene	ND	U	3.63	42.1	ug/Kg	50	11/7/2012 15:45
Diisopropyl Ether	ND	U	12.4	42.1	ug/Kg	50	11/7/2012 15:45
Ethyl Benzene	ND	U	3.70	42.1	ug/Kg	50	11/7/2012 15:45
Hexachlorobutadiene	ND	U	3.34	42.1	ug/Kg	50	11/7/2012 15:45
Isopropylbenzene (Cumene)	ND	U	3.66	42.1	ug/Kg	50	11/7/2012 15:45
Methyl iodide	ND	U	4.85	42.1	ug/Kg	50	11/7/2012 15:45
Methylene chloride	ND	U	6.41	211	ug/Kg	50	11/7/2012 15:45
Naphthalene	ND	U	3.60	42.1	ug/Kg	50	11/7/2012 15:45
Styrene	ND	U	4.30	42.1	ug/Kg	50	11/7/2012 15:45
Tetrachloroethene	**367**		6.53	42.1	ug/Kg	50	11/7/2012 15:45
Toluene	ND	U	5.61	42.1	ug/Kg	50	11/7/2012 15:45
Trichloroethene	ND	U	5.27	42.1	ug/Kg	50	11/7/2012 15:45
Trichlorofluoromethane	ND	U	5.77	42.1	ug/Kg	50	11/7/2012 15:45
Vinyl chloride	ND	U	5.23	42.1	ug/Kg	50	11/7/2012 15:45
Xylene (total)	ND	U	7.67	84.3	ug/Kg	50	11/7/2012 15:45
cis-1,2-Dichloroethene	ND	U	5.73	42.1	ug/Kg	50	11/7/2012 15:45
m,p-Xylene	ND	U	7.67	84.3	ug/Kg	50	11/7/2012 15:45
n-Propylbenzene	ND	U	4.76	42.1	ug/Kg	50	11/7/2012 15:45
o-Xylene	ND	U	3.68	42.1	ug/Kg	50	11/7/2012 15:45
sec-Butylbenzene	ND	U	4.72	42.1	ug/Kg	50	11/7/2012 15:45
tert-Butyl methyl ether (MTBE)	ND	U	6.07	42.1	ug/Kg	50	11/7/2012 15:45
tert-Butylbenzene	ND	U	3.60	42.1	ug/Kg	50	11/7/2012 15:45
trans-1,2-Dichloroethene	ND	U	9.40	42.1	ug/Kg	50	11/7/2012 15:45
trans-1,4-Dichloro-2-butene	ND	U	17.4	211	ug/Kg	50	11/7/2012 15:45
Surrogates							
1,2-Dichloroethane-d4	96.0			55.0-173	%	50	11/7/2012 15:45
4-Bromofluorobenzene	98.0			23.0-141	%	50	11/7/2012 15:45
Toluene d8	100			57.0-134	%	50	11/7/2012 15:45

Batch Information

Analytical Batch: **VMS2720**
Analytical Method: **SW-846 8260B**
Instrument: **MSD8**
Analyst: **DVO**

Prep Batch: **VXX4308**
Prep Method: **SW-846 5035 SM**
Prep Date/Time: **11/06/2012 11:51**
Prep Initial Wt./Vol.: **7.09 g**
Prep Extract Vol: **5 mL**

Print Date: 11/28/2012

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Results of **SB41-2-3**

Client Sample ID: **SB41-2-3**
Client Project ID: **2012.0009**
Lab Sample ID: 31203610021-D
Lab Project ID: 31203610

Collection Date: 11/01/2012 10:50
Received Date: 11/02/2012 14:00
Matrix: Soil-Solid as dry weight
Solids (%): 84.50

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	U	4.35	41.8	ug/Kg	50	11/8/2012 15:34
1,1,1-Trichloroethane	ND	U	5.14	41.8	ug/Kg	50	11/8/2012 15:34
1,1,2,2-Tetrachloroethane	ND	U	6.53	41.8	ug/Kg	50	11/8/2012 15:34
1,1,2-Trichloroethane	ND	U	5.27	41.8	ug/Kg	50	11/8/2012 15:34
1,1-Dichloroethane	ND	U	6.90	41.8	ug/Kg	50	11/8/2012 15:34
1,1-Dichloroethene	ND	U	8.87	41.8	ug/Kg	50	11/8/2012 15:34
1,1-Dichloropropene	ND	U	3.61	41.8	ug/Kg	50	11/8/2012 15:34
1,2,3-Trichlorobenzene	ND	U	4.60	41.8	ug/Kg	50	11/8/2012 15:34
1,2,3-Trichloropropane	ND	U	8.87	41.8	ug/Kg	50	11/8/2012 15:34
1,2,4-Trichlorobenzene	ND	U	3.82	41.8	ug/Kg	50	11/8/2012 15:34
1,2,4-Trimethylbenzene	ND	U	4.02	41.8	ug/Kg	50	11/8/2012 15:34
1,2-Dibromo-3-chloropropane	ND	U	31.3	209	ug/Kg	50	11/8/2012 15:34
1,2-Dibromoethane	ND	U	5.02	41.8	ug/Kg	50	11/8/2012 15:34
1,2-Dichlorobenzene	ND	U	5.73	41.8	ug/Kg	50	11/8/2012 15:34
1,2-Dichloroethane	ND	U	6.99	41.8	ug/Kg	50	11/8/2012 15:34
1,2-Dichloropropane	ND	U	6.82	41.8	ug/Kg	50	11/8/2012 15:34
1,3,5-Trimethylbenzene	ND	U	4.73	41.8	ug/Kg	50	11/8/2012 15:34
1,3-Dichlorobenzene	ND	U	4.31	41.8	ug/Kg	50	11/8/2012 15:34
1,3-Dichloropropane	ND	U	5.44	41.8	ug/Kg	50	11/8/2012 15:34
1,4-Dichlorobenzene	ND	U	5.44	41.8	ug/Kg	50	11/8/2012 15:34
2,2-Dichloropropane	ND	U	16.4	41.8	ug/Kg	50	11/8/2012 15:34
2-Butanone	ND	U	30.2	1050	ug/Kg	50	11/8/2012 15:34
2-Chlorotoluene	ND	U	4.73	41.8	ug/Kg	50	11/8/2012 15:34
2-Hexanone	ND	U	30.5	209	ug/Kg	50	11/8/2012 15:34
4-Chlorotoluene	ND	U	5.23	41.8	ug/Kg	50	11/8/2012 15:34
4-Isopropyltoluene	ND	U	3.22	41.8	ug/Kg	50	11/8/2012 15:34
4-Methyl-2-pentanone	ND	U	23.3	209	ug/Kg	50	11/8/2012 15:34
Acetone	ND	U	36.1	1050	ug/Kg	50	11/8/2012 15:34
Benzene	ND	U	4.73	41.8	ug/Kg	50	11/8/2012 15:34
Bromobenzene	ND	U	4.60	41.8	ug/Kg	50	11/8/2012 15:34
Bromochloromethane	ND	U	8.83	41.8	ug/Kg	50	11/8/2012 15:34
Bromodichloromethane	ND	U	4.60	41.8	ug/Kg	50	11/8/2012 15:34
Bromoform	ND	U	4.07	41.8	ug/Kg	50	11/8/2012 15:34
Bromomethane	ND	U	9.91	41.8	ug/Kg	50	11/8/2012 15:34
n-Butylbenzene	ND	U	3.22	41.8	ug/Kg	50	11/8/2012 15:34
Carbon disulfide	ND	U	4.43	41.8	ug/Kg	50	11/8/2012 15:34
Carbon tetrachloride	ND	U	4.22	41.8	ug/Kg	50	11/8/2012 15:34
Chlorobenzene	ND	U	4.85	41.8	ug/Kg	50	11/8/2012 15:34
Chloroethane	ND	U	13.0	41.8	ug/Kg	50	11/8/2012 15:34
Chloroform	ND	U	5.81	41.8	ug/Kg	50	11/8/2012 15:34
Chloromethane	ND	U	18.7	41.8	ug/Kg	50	11/8/2012 15:34
Dibromochloromethane	ND	U	5.60	41.8	ug/Kg	50	11/8/2012 15:34
Dibromomethane	ND	U	7.03	41.8	ug/Kg	50	11/8/2012 15:34

Print Date: 11/28/2012

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Results of **SB41-2-3**

Client Sample ID: **SB41-2-3**
Client Project ID: **2012.0009**
Lab Sample ID: 31203610021-D
Lab Project ID: 31203610

Collection Date: 11/01/2012 10:50
Received Date: 11/02/2012 14:00
Matrix: Soil-Solid as dry weight
Solids (%): 84.50

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
Dichlorodifluoromethane	ND	U	7.15	209	ug/Kg	50	11/8/2012 15:34
cis-1,3-Dichloropropene	ND	U	3.21	41.8	ug/Kg	50	11/8/2012 15:34
trans-1,3-Dichloropropene	ND	U	3.61	41.8	ug/Kg	50	11/8/2012 15:34
Diisopropyl Ether	ND	U	12.3	41.8	ug/Kg	50	11/8/2012 15:34
Ethyl Benzene	ND	U	3.67	41.8	ug/Kg	50	11/8/2012 15:34
Hexachlorobutadiene	ND	U	3.31	41.8	ug/Kg	50	11/8/2012 15:34
Isopropylbenzene (Cumene)	ND	U	3.63	41.8	ug/Kg	50	11/8/2012 15:34
Methyl iodide	ND	U	4.81	41.8	ug/Kg	50	11/8/2012 15:34
Methylene chloride	ND	U	6.36	209	ug/Kg	50	11/8/2012 15:34
Naphthalene	ND	U	3.58	41.8	ug/Kg	50	11/8/2012 15:34
Styrene	ND	U	4.27	41.8	ug/Kg	50	11/8/2012 15:34
Tetrachloroethene	**235**		6.48	41.8	ug/Kg	50	11/8/2012 15:34
Toluene	ND	U	5.56	41.8	ug/Kg	50	11/8/2012 15:34
Trichloroethene	ND	U	5.23	41.8	ug/Kg	50	11/8/2012 15:34
Trichlorofluoromethane	ND	U	5.73	41.8	ug/Kg	50	11/8/2012 15:34
Vinyl chloride	ND	U	5.19	41.8	ug/Kg	50	11/8/2012 15:34
Xylene (total)	ND	U	7.61	83.7	ug/Kg	50	11/8/2012 15:34
cis-1,2-Dichloroethene	ND	U	5.69	41.8	ug/Kg	50	11/8/2012 15:34
m,p-Xylene	ND	U	7.61	83.7	ug/Kg	50	11/8/2012 15:34
n-Propylbenzene	ND	U	4.73	41.8	ug/Kg	50	11/8/2012 15:34
o-Xylene	ND	U	3.66	41.8	ug/Kg	50	11/8/2012 15:34
sec-Butylbenzene	ND	U	4.68	41.8	ug/Kg	50	11/8/2012 15:34
tert-Butyl methyl ether (MTBE)	ND	U	6.02	41.8	ug/Kg	50	11/8/2012 15:34
tert-Butylbenzene	ND	U	3.58	41.8	ug/Kg	50	11/8/2012 15:34
trans-1,2-Dichloroethene	ND	U	9.33	41.8	ug/Kg	50	11/8/2012 15:34
trans-1,4-Dichloro-2-butene	ND	U	17.3	209	ug/Kg	50	11/8/2012 15:34
Surrogates							
1,2-Dichloroethane-d4	90.0			55.0-173	%	50	11/8/2012 15:34
4-Bromofluorobenzene	98.0			23.0-141	%	50	11/8/2012 15:34
Toluene d8	94.0			57.0-134	%	50	11/8/2012 15:34

Batch Information

Analytical Batch: **VMS2724**
Analytical Method: **SW-846 8260B**
Instrument: **MSD8**
Analyst: **DVO**

Prep Batch: **VXX4316**
Prep Method: **SW-846 5035 SM**
Prep Date/Time: **11/06/2012 11:53**
Prep Initial Wt./Vol.: **7.07 g**
Prep Extract Vol: **5 mL**

Print Date: 11/28/2012

N.C. Certification # 481

Results of **SB41-3-4**

Client Sample ID: **SB41-3-4**
Client Project ID: **2012.0009**
Lab Sample ID: 31203610022-A
Lab Project ID: 31203610

Collection Date: 11/01/2012 10:55
Received Date: 11/02/2012 14:00
Matrix: Soil-Solid as dry weight
Solids (%): 82.90

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	U	0.678	4.78	ug/Kg	1	11/8/2012 17:14
1,1,1-Trichloroethane	**3.53**	J	0.721	4.78	ug/Kg	1	11/8/2012 17:14
1,1,2,2-Tetrachloroethane	ND	U	1.12	4.78	ug/Kg	1	11/8/2012 17:14
1,1,2-Trichloroethane	ND	U	0.994	4.78	ug/Kg	1	11/8/2012 17:14
1,1-Dichloroethane	**1.30**	J	0.514	4.78	ug/Kg	1	11/8/2012 17:14
1,1-Dichloroethene	**3.09**	J	1.11	4.78	ug/Kg	1	11/8/2012 17:14
1,1-Dichloropropene	ND	U	0.646	4.78	ug/Kg	1	11/8/2012 17:14
1,2,3-Trichlorobenzene	ND	U	0.795	4.78	ug/Kg	1	11/8/2012 17:14
1,2,3-Trichloropropane	ND	U	0.985	4.78	ug/Kg	1	11/8/2012 17:14
1,2,4-Trichlorobenzene	ND	U	0.697	4.78	ug/Kg	1	11/8/2012 17:14
1,2,4-Trimethylbenzene	ND	U	0.609	4.78	ug/Kg	1	11/8/2012 17:14
1,2-Dibromo-3-chloropropane	ND	U	7.08	28.7	ug/Kg	1	11/8/2012 17:14
1,2-Dibromoethane	ND	U	1.25	4.78	ug/Kg	1	11/8/2012 17:14
1,2-Dichlorobenzene	ND	U	0.680	4.78	ug/Kg	1	11/8/2012 17:14
1,2-Dichloroethane	ND	U	0.873	4.78	ug/Kg	1	11/8/2012 17:14
1,2-Dichloropropane	ND	U	1.10	4.78	ug/Kg	1	11/8/2012 17:14
1,3,5-Trimethylbenzene	ND	U	0.581	4.78	ug/Kg	1	11/8/2012 17:14
1,3-Dichlorobenzene	ND	U	0.687	4.78	ug/Kg	1	11/8/2012 17:14
1,3-Dichloropropane	ND	U	0.840	4.78	ug/Kg	1	11/8/2012 17:14
1,4-Dichlorobenzene	ND	U	0.645	4.78	ug/Kg	1	11/8/2012 17:14
2,2-Dichloropropane	ND	U	0.706	4.78	ug/Kg	1	11/8/2012 17:14
2-Butanone	ND	U	3.23	23.9	ug/Kg	1	11/8/2012 17:14
2-Chlorotoluene	ND	U	0.896	4.78	ug/Kg	1	11/8/2012 17:14
2-Hexanone	ND	U	3.08	12.0	ug/Kg	1	11/8/2012 17:14
4-Chlorotoluene	ND	U	0.723	4.78	ug/Kg	1	11/8/2012 17:14
4-Isopropyltoluene	ND	U	0.617	4.78	ug/Kg	1	11/8/2012 17:14
4-Methyl-2-pentanone	ND	U	3.58	12.0	ug/Kg	1	11/8/2012 17:14
Acetone	**4.49**	J	3.83	47.8	ug/Kg	1	11/8/2012 17:14
Benzene	ND	U	0.680	4.78	ug/Kg	1	11/8/2012 17:14
Bromobenzene	ND	U	0.666	4.78	ug/Kg	1	11/8/2012 17:14
Bromochloromethane	ND	U	0.899	4.78	ug/Kg	1	11/8/2012 17:14
Bromodichloromethane	ND	U	0.673	4.78	ug/Kg	1	11/8/2012 17:14
Bromoform	ND	U	0.692	4.78	ug/Kg	1	11/8/2012 17:14
Bromomethane	ND	U	1.39	4.78	ug/Kg	1	11/8/2012 17:14
n-Butylbenzene	ND	U	0.628	4.78	ug/Kg	1	11/8/2012 17:14
Carbon disulfide	ND	U	0.500	4.78	ug/Kg	1	11/8/2012 17:14
Carbon tetrachloride	ND	U	0.544	4.78	ug/Kg	1	11/8/2012 17:14
Chlorobenzene	ND	U	0.667	4.78	ug/Kg	1	11/8/2012 17:14
Chloroethane	ND	U	0.956	4.78	ug/Kg	1	11/8/2012 17:14
Chloroform	ND	U	0.609	4.78	ug/Kg	1	11/8/2012 17:14
Chloromethane	ND	U	1.37	4.78	ug/Kg	1	11/8/2012 17:14
Dibromochloromethane	ND	U	1.06	4.78	ug/Kg	1	11/8/2012 17:14
Dibromomethane	ND	U	0.843	4.78	ug/Kg	1	11/8/2012 17:14

Print Date: 11/28/2012

N.C. Certification # 481

Results of **SB41-3-4**

Client Sample ID: **SB41-3-4**
Client Project ID: **2012.0009**
Lab Sample ID: 31203610022-A
Lab Project ID: 31203610

Collection Date: 11/01/2012 10:55
Received Date: 11/02/2012 14:00
Matrix: Soil-Solid as dry weight
Solids (%): 82.90

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
Dichlorodifluoromethane	ND	U	1.00	4.78	ug/Kg	1	11/8/2012 17:14
cis-1,3-Dichloropropene	ND	U	0.985	4.78	ug/Kg	1	11/8/2012 17:14
trans-1,3-Dichloropropene	ND	U	0.902	4.78	ug/Kg	1	11/8/2012 17:14
Diisopropyl Ether	ND	U	0.785	4.78	ug/Kg	1	11/8/2012 17:14
Ethyl Benzene	ND	U	0.674	4.78	ug/Kg	1	11/8/2012 17:14
Hexachlorobutadiene	ND	U	0.657	4.78	ug/Kg	1	11/8/2012 17:14
Isopropylbenzene (Cumene)	ND	U	0.595	4.78	ug/Kg	1	11/8/2012 17:14
Methyl iodide	ND	U	0.732	4.78	ug/Kg	1	11/8/2012 17:14
Methylene chloride	**1.55**	J	1.00	19.1	ug/Kg	1	11/8/2012 17:14
Naphthalene	ND	U	0.869	4.78	ug/Kg	1	11/8/2012 17:14
Styrene	ND	U	0.551	4.78	ug/Kg	1	11/8/2012 17:14
Tetrachloroethene	**120**		0.718	4.78	ug/Kg	1	11/8/2012 17:14
Toluene	ND	U	0.658	4.78	ug/Kg	1	11/8/2012 17:14
Trichloroethene	**6.89**		0.805	4.78	ug/Kg	1	11/8/2012 17:14
Trichlorofluoromethane	ND	U	0.966	4.78	ug/Kg	1	11/8/2012 17:14
Vinyl chloride	ND	U	0.908	4.78	ug/Kg	1	11/8/2012 17:14
Xylene (total)	ND	U	1.69	9.56	ug/Kg	1	11/8/2012 17:14
cis-1,2-Dichloroethene	**6.39**		0.584	4.78	ug/Kg	1	11/8/2012 17:14
m,p-Xylene	ND	U	1.62	9.56	ug/Kg	1	11/8/2012 17:14
n-Propylbenzene	ND	U	0.700	4.78	ug/Kg	1	11/8/2012 17:14
o-Xylene	ND	U	0.732	4.78	ug/Kg	1	11/8/2012 17:14
sec-Butylbenzene	ND	U	0.574	4.78	ug/Kg	1	11/8/2012 17:14
tert-Butyl methyl ether (MTBE)	ND	U	0.760	4.78	ug/Kg	1	11/8/2012 17:14
tert-Butylbenzene	ND	U	0.643	4.78	ug/Kg	1	11/8/2012 17:14
trans-1,2-Dichloroethene	ND	U	0.698	4.78	ug/Kg	1	11/8/2012 17:14
trans-1,4-Dichloro-2-butene	ND	U	4.02	23.9	ug/Kg	1	11/8/2012 17:14
Surrogates							
1,2-Dichloroethane-d4	111			55.0-173	%	1	11/8/2012 17:14
4-Bromofluorobenzene	99.0			23.0-141	%	1	11/8/2012 17:14
Toluene d8	99.0			57.0-134	%	1	11/8/2012 17:14

Batch Information

Analytical Batch: **VMS2722**
Analytical Method: **SW-846 8260B**
Instrument: **MSD9**
Analyst: **DVO**

Prep Batch: **VXX4299**
Prep Method: **SW-846 5035 SL**
Prep Date/Time: **11/06/2012 11:56**
Prep Initial Wt./Vol.: **6.31 g**
Prep Extract Vol: **5 mL**

Print Date: 11/28/2012

N.C. Certification # 481

Results of **SB41-4-5**

Client Sample ID: **SB41-4-5**
Client Project ID: **2012.0009**
Lab Sample ID: 31203610023-D
Lab Project ID: 31203610

Collection Date: 11/01/2012 11:00
Received Date: 11/02/2012 14:00
Matrix: Soil-Solid as dry weight
Solids (%): 81.90

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	U	4.77	45.8	ug/Kg	50	11/8/2012 15:59
1,1,1-Trichloroethane	ND	U	5.64	45.8	ug/Kg	50	11/8/2012 15:59
1,1,2,2-Tetrachloroethane	ND	U	7.15	45.8	ug/Kg	50	11/8/2012 15:59
1,1,2-Trichloroethane	ND	U	5.78	45.8	ug/Kg	50	11/8/2012 15:59
1,1-Dichloroethane	ND	U	7.56	45.8	ug/Kg	50	11/8/2012 15:59
1,1-Dichloroethene	**33.9**	J	9.72	45.8	ug/Kg	50	11/8/2012 15:59
1,1-Dichloropropene	ND	U	3.96	45.8	ug/Kg	50	11/8/2012 15:59
1,2,3-Trichlorobenzene	ND	U	5.04	45.8	ug/Kg	50	11/8/2012 15:59
1,2,3-Trichloropropane	ND	U	9.72	45.8	ug/Kg	50	11/8/2012 15:59
1,2,4-Trichlorobenzene	ND	U	4.19	45.8	ug/Kg	50	11/8/2012 15:59
1,2,4-Trimethylbenzene	ND	U	4.41	45.8	ug/Kg	50	11/8/2012 15:59
1,2-Dibromo-3-chloropropane	ND	U	34.3	229	ug/Kg	50	11/8/2012 15:59
1,2-Dibromoethane	ND	U	5.50	45.8	ug/Kg	50	11/8/2012 15:59
1,2-Dichlorobenzene	ND	U	6.28	45.8	ug/Kg	50	11/8/2012 15:59
1,2-Dichloroethane	ND	U	7.66	45.8	ug/Kg	50	11/8/2012 15:59
1,2-Dichloropropane	ND	U	7.47	45.8	ug/Kg	50	11/8/2012 15:59
1,3,5-Trimethylbenzene	ND	U	5.18	45.8	ug/Kg	50	11/8/2012 15:59
1,3-Dichlorobenzene	ND	U	4.72	45.8	ug/Kg	50	11/8/2012 15:59
1,3-Dichloropropane	ND	U	5.96	45.8	ug/Kg	50	11/8/2012 15:59
1,4-Dichlorobenzene	ND	U	5.96	45.8	ug/Kg	50	11/8/2012 15:59
2,2-Dichloropropane	ND	U	18.0	45.8	ug/Kg	50	11/8/2012 15:59
2-Butanone	ND	U	33.1	1150	ug/Kg	50	11/8/2012 15:59
2-Chlorotoluene	ND	U	5.18	45.8	ug/Kg	50	11/8/2012 15:59
2-Hexanone	ND	U	33.4	229	ug/Kg	50	11/8/2012 15:59
4-Chlorotoluene	ND	U	5.73	45.8	ug/Kg	50	11/8/2012 15:59
4-Isopropyltoluene	ND	U	3.53	45.8	ug/Kg	50	11/8/2012 15:59
4-Methyl-2-pentanone	ND	U	25.6	229	ug/Kg	50	11/8/2012 15:59
Acetone	ND	U	39.6	1150	ug/Kg	50	11/8/2012 15:59
Benzene	ND	U	5.18	45.8	ug/Kg	50	11/8/2012 15:59
Bromobenzene	ND	U	5.04	45.8	ug/Kg	50	11/8/2012 15:59
Bromochloromethane	ND	U	9.67	45.8	ug/Kg	50	11/8/2012 15:59
Bromodichloromethane	ND	U	5.04	45.8	ug/Kg	50	11/8/2012 15:59
Bromoform	ND	U	4.47	45.8	ug/Kg	50	11/8/2012 15:59
Bromomethane	ND	U	10.9	45.8	ug/Kg	50	11/8/2012 15:59
n-Butylbenzene	ND	U	3.53	45.8	ug/Kg	50	11/8/2012 15:59
Carbon disulfide	ND	U	4.86	45.8	ug/Kg	50	11/8/2012 15:59
Carbon tetrachloride	ND	U	4.63	45.8	ug/Kg	50	11/8/2012 15:59
Chlorobenzene	ND	U	5.32	45.8	ug/Kg	50	11/8/2012 15:59
Chloroethane	ND	U	14.3	45.8	ug/Kg	50	11/8/2012 15:59
Chloroform	ND	U	6.37	45.8	ug/Kg	50	11/8/2012 15:59
Chloromethane	ND	U	20.5	45.8	ug/Kg	50	11/8/2012 15:59
Dibromochloromethane	ND	U	6.14	45.8	ug/Kg	50	11/8/2012 15:59
Dibromomethane	ND	U	7.70	45.8	ug/Kg	50	11/8/2012 15:59

Print Date: 11/28/2012

N.C. Certification # 481

Results of **SB41-4-5**

Client Sample ID: **SB41-4-5**
Client Project ID: **2012.0009**
Lab Sample ID: 31203610023-D
Lab Project ID: 31203610

Collection Date: 11/01/2012 11:00
Received Date: 11/02/2012 14:00
Matrix: Soil-Solid as dry weight
Solids (%): 81.90

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
Dichlorodifluoromethane	ND	U	7.84	229	ug/Kg	50	11/8/2012 15:59
cis-1,3-Dichloropropene	ND	U	3.52	45.8	ug/Kg	50	11/8/2012 15:59
trans-1,3-Dichloropropene	ND	U	3.95	45.8	ug/Kg	50	11/8/2012 15:59
Diisopropyl Ether	ND	U	13.5	45.8	ug/Kg	50	11/8/2012 15:59
Ethyl Benzene	ND	U	4.02	45.8	ug/Kg	50	11/8/2012 15:59
Hexachlorobutadiene	ND	U	3.63	45.8	ug/Kg	50	11/8/2012 15:59
Isopropylbenzene (Cumene)	ND	U	3.98	45.8	ug/Kg	50	11/8/2012 15:59
Methyl iodide	ND	U	5.27	45.8	ug/Kg	50	11/8/2012 15:59
Methylene chloride	ND	U	6.97	229	ug/Kg	50	11/8/2012 15:59
Naphthalene	ND	U	3.92	45.8	ug/Kg	50	11/8/2012 15:59
Styrene	ND	U	4.68	45.8	ug/Kg	50	11/8/2012 15:59
Tetrachloroethene	**393**		7.11	45.8	ug/Kg	50	11/8/2012 15:59
Toluene	ND	U	6.10	45.8	ug/Kg	50	11/8/2012 15:59
Trichloroethene	**48.6**		5.73	45.8	ug/Kg	50	11/8/2012 15:59
Trichlorofluoromethane	ND	U	6.28	45.8	ug/Kg	50	11/8/2012 15:59
Vinyl chloride	ND	U	5.69	45.8	ug/Kg	50	11/8/2012 15:59
Xylene (total)	ND	U	8.34	91.7	ug/Kg	50	11/8/2012 15:59
cis-1,2-Dichloroethene	**55.0**		6.24	45.8	ug/Kg	50	11/8/2012 15:59
m,p-Xylene	ND	U	8.34	91.7	ug/Kg	50	11/8/2012 15:59
n-Propylbenzene	ND	U	5.18	45.8	ug/Kg	50	11/8/2012 15:59
o-Xylene	ND	U	4.01	45.8	ug/Kg	50	11/8/2012 15:59
sec-Butylbenzene	ND	U	5.13	45.8	ug/Kg	50	11/8/2012 15:59
tert-Butyl methyl ether (MTBE)	ND	U	6.60	45.8	ug/Kg	50	11/8/2012 15:59
tert-Butylbenzene	ND	U	3.92	45.8	ug/Kg	50	11/8/2012 15:59
trans-1,2-Dichloroethene	ND	U	10.2	45.8	ug/Kg	50	11/8/2012 15:59
trans-1,4-Dichloro-2-butene	ND	U	19.0	229	ug/Kg	50	11/8/2012 15:59
Surrogates							
1,2-Dichloroethane-d4	103			55.0-173	%	50	11/8/2012 15:59
4-Bromofluorobenzene	98.0			23.0-141	%	50	11/8/2012 15:59
Toluene d8	105			57.0-134	%	50	11/8/2012 15:59

Batch Information

Analytical Batch: **VMS2724**
Analytical Method: **SW-846 8260B**
Instrument: **MSD8**
Analyst: **DVO**

Prep Batch: **VXX4316**
Prep Method: **SW-846 5035 SM**
Prep Date/Time: **11/06/2012 11:58**
Prep Initial Wt./Vol.: **6.66 g**
Prep Extract Vol: **5 mL**

Print Date: 11/28/2012

N.C. Certification # 481

Results of **SB41-5-6**

Client Sample ID: **SB41-5-6**
Client Project ID: **2012.0009**
Lab Sample ID: 31203610024-D
Lab Project ID: 31203610

Collection Date: 11/01/2012 11:05
Received Date: 11/02/2012 14:00
Matrix: Soil-Solid as dry weight
Solids (%): 84.10

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	U	4.59	44.2	ug/Kg	50	11/8/2012 16:23
1,1,1-Trichloroethane	ND	U	5.43	44.2	ug/Kg	50	11/8/2012 16:23
1,1,2,2-Tetrachloroethane	ND	U	6.89	44.2	ug/Kg	50	11/8/2012 16:23
1,1,2-Trichloroethane	ND	U	5.56	44.2	ug/Kg	50	11/8/2012 16:23
1,1-Dichloroethane	ND	U	7.29	44.2	ug/Kg	50	11/8/2012 16:23
1,1-Dichloroethene	**101**		9.36	44.2	ug/Kg	50	11/8/2012 16:23
1,1-Dichloropropene	ND	U	3.81	44.2	ug/Kg	50	11/8/2012 16:23
1,2,3-Trichlorobenzene	ND	U	4.86	44.2	ug/Kg	50	11/8/2012 16:23
1,2,3-Trichloropropane	ND	U	9.36	44.2	ug/Kg	50	11/8/2012 16:23
1,2,4-Trichlorobenzene	ND	U	4.03	44.2	ug/Kg	50	11/8/2012 16:23
1,2,4-Trimethylbenzene	ND	U	4.24	44.2	ug/Kg	50	11/8/2012 16:23
1,2-Dibromo-3-chloropropane	ND	U	33.0	221	ug/Kg	50	11/8/2012 16:23
1,2-Dibromoethane	ND	U	5.30	44.2	ug/Kg	50	11/8/2012 16:23
1,2-Dichlorobenzene	ND	U	6.05	44.2	ug/Kg	50	11/8/2012 16:23
1,2-Dichloroethane	ND	U	7.38	44.2	ug/Kg	50	11/8/2012 16:23
1,2-Dichloropropane	ND	U	7.20	44.2	ug/Kg	50	11/8/2012 16:23
1,3,5-Trimethylbenzene	ND	U	4.99	44.2	ug/Kg	50	11/8/2012 16:23
1,3-Dichlorobenzene	ND	U	4.55	44.2	ug/Kg	50	11/8/2012 16:23
1,3-Dichloropropane	ND	U	5.74	44.2	ug/Kg	50	11/8/2012 16:23
1,4-Dichlorobenzene	ND	U	5.74	44.2	ug/Kg	50	11/8/2012 16:23
2,2-Dichloropropane	ND	U	17.4	44.2	ug/Kg	50	11/8/2012 16:23
2-Butanone	ND	U	31.9	1100	ug/Kg	50	11/8/2012 16:23
2-Chlorotoluene	ND	U	4.99	44.2	ug/Kg	50	11/8/2012 16:23
2-Hexanone	ND	U	32.2	221	ug/Kg	50	11/8/2012 16:23
4-Chlorotoluene	ND	U	5.52	44.2	ug/Kg	50	11/8/2012 16:23
4-Isopropyltoluene	ND	U	3.40	44.2	ug/Kg	50	11/8/2012 16:23
4-Methyl-2-pentanone	ND	U	24.6	221	ug/Kg	50	11/8/2012 16:23
Acetone	ND	U	38.2	1100	ug/Kg	50	11/8/2012 16:23
Benzene	ND	U	4.99	44.2	ug/Kg	50	11/8/2012 16:23
Bromobenzene	ND	U	4.86	44.2	ug/Kg	50	11/8/2012 16:23
Bromochloromethane	ND	U	9.32	44.2	ug/Kg	50	11/8/2012 16:23
Bromodichloromethane	ND	U	4.86	44.2	ug/Kg	50	11/8/2012 16:23
Bromoform	ND	U	4.30	44.2	ug/Kg	50	11/8/2012 16:23
Bromomethane	ND	U	10.5	44.2	ug/Kg	50	11/8/2012 16:23
n-Butylbenzene	ND	U	3.40	44.2	ug/Kg	50	11/8/2012 16:23
Carbon disulfide	ND	U	4.68	44.2	ug/Kg	50	11/8/2012 16:23
Carbon tetrachloride	ND	U	4.46	44.2	ug/Kg	50	11/8/2012 16:23
Chlorobenzene	ND	U	5.12	44.2	ug/Kg	50	11/8/2012 16:23
Chloroethane	ND	U	13.7	44.2	ug/Kg	50	11/8/2012 16:23
Chloroform	ND	U	6.14	44.2	ug/Kg	50	11/8/2012 16:23
Chloromethane	ND	U	19.8	44.2	ug/Kg	50	11/8/2012 16:23
Dibromochloromethane	ND	U	5.92	44.2	ug/Kg	50	11/8/2012 16:23
Dibromomethane	ND	U	7.42	44.2	ug/Kg	50	11/8/2012 16:23

Print Date: 11/28/2012

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Results of **SB41-5-6**

Client Sample ID: **SB41-5-6**
Client Project ID: **2012.0009**
Lab Sample ID: 31203610024-D
Lab Project ID: 31203610

Collection Date: 11/01/2012 11:05
Received Date: 11/02/2012 14:00
Matrix: Soil-Solid as dry weight
Solids (%): 84.10

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
Dichlorodifluoromethane	ND	U	7.55	221	ug/Kg	50	11/8/2012 16:23
cis-1,3-Dichloropropene	ND	U	3.39	44.2	ug/Kg	50	11/8/2012 16:23
trans-1,3-Dichloropropene	ND	U	3.81	44.2	ug/Kg	50	11/8/2012 16:23
Diisopropyl Ether	ND	U	13.0	44.2	ug/Kg	50	11/8/2012 16:23
Ethyl Benzene	ND	U	3.87	44.2	ug/Kg	50	11/8/2012 16:23
Hexachlorobutadiene	ND	U	3.50	44.2	ug/Kg	50	11/8/2012 16:23
Isopropylbenzene (Cumene)	ND	U	3.84	44.2	ug/Kg	50	11/8/2012 16:23
Methyl iodide	ND	U	5.08	44.2	ug/Kg	50	11/8/2012 16:23
Methylene chloride	ND	U	6.71	221	ug/Kg	50	11/8/2012 16:23
Naphthalene	ND	U	3.78	44.2	ug/Kg	50	11/8/2012 16:23
Styrene	ND	U	4.50	44.2	ug/Kg	50	11/8/2012 16:23
Tetrachloroethene	**1410**		6.85	44.2	ug/Kg	50	11/8/2012 16:23
Toluene	ND	U	5.87	44.2	ug/Kg	50	11/8/2012 16:23
Trichloroethene	**98.0**		5.52	44.2	ug/Kg	50	11/8/2012 16:23
Trichlorofluoromethane	ND	U	6.05	44.2	ug/Kg	50	11/8/2012 16:23
Vinyl chloride	ND	U	5.48	44.2	ug/Kg	50	11/8/2012 16:23
Xylene (total)	ND	U	8.04	88.3	ug/Kg	50	11/8/2012 16:23
cis-1,2-Dichloroethene	**93.2**		6.01	44.2	ug/Kg	50	11/8/2012 16:23
m,p-Xylene	ND	U	8.04	88.3	ug/Kg	50	11/8/2012 16:23
n-Propylbenzene	ND	U	4.99	44.2	ug/Kg	50	11/8/2012 16:23
o-Xylene	ND	U	3.86	44.2	ug/Kg	50	11/8/2012 16:23
sec-Butylbenzene	ND	U	4.95	44.2	ug/Kg	50	11/8/2012 16:23
tert-Butyl methyl ether (MTBE)	ND	U	6.36	44.2	ug/Kg	50	11/8/2012 16:23
tert-Butylbenzene	ND	U	3.78	44.2	ug/Kg	50	11/8/2012 16:23
trans-1,2-Dichloroethene	ND	U	9.85	44.2	ug/Kg	50	11/8/2012 16:23
trans-1,4-Dichloro-2-butene	ND	U	18.3	221	ug/Kg	50	11/8/2012 16:23
Surrogates							
1,2-Dichloroethane-d4	99.0			55.0-173	%	50	11/8/2012 16:23
4-Bromofluorobenzene	97.0			23.0-141	%	50	11/8/2012 16:23
Toluene d8	98.0			57.0-134	%	50	11/8/2012 16:23

Batch Information

Analytical Batch: **VMS2724**
Analytical Method: **SW-846 8260B**
Instrument: **MSD8**
Analyst: **DVO**

Prep Batch: **VXX4316**
Prep Method: **SW-846 5035 SM**
Prep Date/Time: **11/06/2012 12:01**
Prep Initial Wt./Vol.: **6.73 g**
Prep Extract Vol: **5 mL**

Print Date: 11/28/2012

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Results of **SB41-6-7**

Client Sample ID: **SB41-6-7**
Client Project ID: **2012.0009**
Lab Sample ID: 31203610025-D
Lab Project ID: 31203610

Collection Date: 11/01/2012 11:15
Received Date: 11/02/2012 14:00
Matrix: Soil-Solid as dry weight
Solids (%): 80.90

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	U	9.14	87.9	ug/Kg	100	11/8/2012 17:37
1,1,1-Trichloroethane	ND	U	10.8	87.9	ug/Kg	100	11/8/2012 17:37
1,1,2,2-Tetrachloroethane	ND	U	13.7	87.9	ug/Kg	100	11/8/2012 17:37
1,1,2-Trichloroethane	ND	U	11.1	87.9	ug/Kg	100	11/8/2012 17:37
1,1-Dichloroethane	ND	U	14.5	87.9	ug/Kg	100	11/8/2012 17:37
1,1-Dichloroethene	**204**		18.6	87.9	ug/Kg	100	11/8/2012 17:37
1,1-Dichloropropene	ND	U	7.59	87.9	ug/Kg	100	11/8/2012 17:37
1,2,3-Trichlorobenzene	ND	U	9.67	87.9	ug/Kg	100	11/8/2012 17:37
1,2,3-Trichloropropane	ND	U	18.6	87.9	ug/Kg	100	11/8/2012 17:37
1,2,4-Trichlorobenzene	ND	U	8.03	87.9	ug/Kg	100	11/8/2012 17:37
1,2,4-Trimethylbenzene	ND	U	8.45	87.9	ug/Kg	100	11/8/2012 17:37
1,2-Dibromo-3-chloropropane	ND	U	65.8	440	ug/Kg	100	11/8/2012 17:37
1,2-Dibromoethane	ND	U	10.6	87.9	ug/Kg	100	11/8/2012 17:37
1,2-Dichlorobenzene	ND	U	12.0	87.9	ug/Kg	100	11/8/2012 17:37
1,2-Dichloroethane	ND	U	14.7	87.9	ug/Kg	100	11/8/2012 17:37
1,2-Dichloropropane	ND	U	14.3	87.9	ug/Kg	100	11/8/2012 17:37
1,3,5-Trimethylbenzene	ND	U	9.94	87.9	ug/Kg	100	11/8/2012 17:37
1,3-Dichlorobenzene	ND	U	9.06	87.9	ug/Kg	100	11/8/2012 17:37
1,3-Dichloropropane	ND	U	11.4	87.9	ug/Kg	100	11/8/2012 17:37
1,4-Dichlorobenzene	ND	U	11.4	87.9	ug/Kg	100	11/8/2012 17:37
2,2-Dichloropropane	ND	U	34.6	87.9	ug/Kg	100	11/8/2012 17:37
2-Butanone	ND	U	63.6	2200	ug/Kg	100	11/8/2012 17:37
2-Chlorotoluene	ND	U	9.94	87.9	ug/Kg	100	11/8/2012 17:37
2-Hexanone	ND	U	64.0	440	ug/Kg	100	11/8/2012 17:37
4-Chlorotoluene	ND	U	11.0	87.9	ug/Kg	100	11/8/2012 17:37
4-Isopropyltoluene	ND	U	6.76	87.9	ug/Kg	100	11/8/2012 17:37
4-Methyl-2-pentanone	ND	U	49.1	440	ug/Kg	100	11/8/2012 17:37
Acetone	ND	U	76.0	2200	ug/Kg	100	11/8/2012 17:37
Benzene	ND	U	9.94	87.9	ug/Kg	100	11/8/2012 17:37
Bromobenzene	ND	U	9.67	87.9	ug/Kg	100	11/8/2012 17:37
Bromochloromethane	ND	U	18.6	87.9	ug/Kg	100	11/8/2012 17:37
Bromodichloromethane	ND	U	9.67	87.9	ug/Kg	100	11/8/2012 17:37
Bromoform	ND	U	8.56	87.9	ug/Kg	100	11/8/2012 17:37
Bromomethane	ND	U	20.8	87.9	ug/Kg	100	11/8/2012 17:37
n-Butylbenzene	ND	U	6.76	87.9	ug/Kg	100	11/8/2012 17:37
Carbon disulfide	ND	U	9.32	87.9	ug/Kg	100	11/8/2012 17:37
Carbon tetrachloride	ND	U	8.88	87.9	ug/Kg	100	11/8/2012 17:37
Chlorobenzene	ND	U	10.2	87.9	ug/Kg	100	11/8/2012 17:37
Chloroethane	ND	U	27.3	87.9	ug/Kg	100	11/8/2012 17:37
Chloroform	ND	U	12.2	87.9	ug/Kg	100	11/8/2012 17:37
Chloromethane	ND	U	39.4	87.9	ug/Kg	100	11/8/2012 17:37
Dibromochloromethane	ND	U	11.8	87.9	ug/Kg	100	11/8/2012 17:37
Dibromomethane	ND	U	14.8	87.9	ug/Kg	100	11/8/2012 17:37

Print Date: 11/28/2012

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Results of **SB41-6-7**

Client Sample ID: **SB41-6-7**
Client Project ID: **2012.0009**
Lab Sample ID: 31203610025-D
Lab Project ID: 31203610

Collection Date: 11/01/2012 11:15
Received Date: 11/02/2012 14:00
Matrix: Soil-Solid as dry weight
Solids (%): 80.90

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
Dichlorodifluoromethane	ND	U	15.0	440	ug/Kg	100	11/8/2012 17:37
cis-1,3-Dichloropropene	ND	U	6.74	87.9	ug/Kg	100	11/8/2012 17:37
trans-1,3-Dichloropropene	ND	U	7.58	87.9	ug/Kg	100	11/8/2012 17:37
Diisopropyl Ether	ND	U	25.9	87.9	ug/Kg	100	11/8/2012 17:37
Ethyl Benzene	ND	U	7.71	87.9	ug/Kg	100	11/8/2012 17:37
Hexachlorobutadiene	ND	U	6.96	87.9	ug/Kg	100	11/8/2012 17:37
Isopropylbenzene (Cumene)	ND	U	7.64	87.9	ug/Kg	100	11/8/2012 17:37
Methyl iodide	ND	U	10.1	87.9	ug/Kg	100	11/8/2012 17:37
Methylene chloride	ND	U	13.4	440	ug/Kg	100	11/8/2012 17:37
Naphthalene	ND	U	7.52	87.9	ug/Kg	100	11/8/2012 17:37
Styrene	ND	U	8.97	87.9	ug/Kg	100	11/8/2012 17:37
Tetrachloroethene	**2600**		13.6	87.9	ug/Kg	100	11/8/2012 17:37
Toluene	ND	U	11.7	87.9	ug/Kg	100	11/8/2012 17:37
Trichloroethene	**134**		11.0	87.9	ug/Kg	100	11/8/2012 17:37
Trichlorofluoromethane	ND	U	12.0	87.9	ug/Kg	100	11/8/2012 17:37
Vinyl chloride	ND	U	10.9	87.9	ug/Kg	100	11/8/2012 17:37
Xylene (total)	ND	U	16.0	176	ug/Kg	100	11/8/2012 17:37
cis-1,2-Dichloroethene	**131**		12.0	87.9	ug/Kg	100	11/8/2012 17:37
m,p-Xylene	ND	U	16.0	176	ug/Kg	100	11/8/2012 17:37
n-Propylbenzene	ND	U	9.94	87.9	ug/Kg	100	11/8/2012 17:37
o-Xylene	ND	U	7.69	87.9	ug/Kg	100	11/8/2012 17:37
sec-Butylbenzene	ND	U	9.85	87.9	ug/Kg	100	11/8/2012 17:37
tert-Butyl methyl ether (MTBE)	ND	U	12.7	87.9	ug/Kg	100	11/8/2012 17:37
tert-Butylbenzene	ND	U	7.52	87.9	ug/Kg	100	11/8/2012 17:37
trans-1,2-Dichloroethene	ND	U	19.6	87.9	ug/Kg	100	11/8/2012 17:37
trans-1,4-Dichloro-2-butene	ND	U	36.4	440	ug/Kg	100	11/8/2012 17:37
Surrogates							
1,2-Dichloroethane-d4	102			55.0-173	%	100	11/8/2012 17:37
4-Bromofluorobenzene	103			23.0-141	%	100	11/8/2012 17:37
Toluene d8	106			57.0-134	%	100	11/8/2012 17:37

Batch Information

Analytical Batch: **VMS2724**
Analytical Method: **SW-846 8260B**
Instrument: **MSD8**
Analyst: **DVO**

Prep Batch: **VXX4316**
Prep Method: **SW-846 5035 SM**
Prep Date/Time: **11/06/2012 12:02**
Prep Initial Wt./Vol.: **7.03 g**
Prep Extract Vol: **5 mL**

Print Date: 11/28/2012

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Results of **SB41-7-8**

Client Sample ID: **SB41-7-8**
Client Project ID: **2012.0009**
Lab Sample ID: 31203610026-D
Lab Project ID: 31203610

Collection Date: 11/01/2012 11:20
Received Date: 11/02/2012 14:00
Matrix: Soil-Solid as dry weight
Solids (%): 85.60

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	U	9.45	90.9	ug/Kg	100	11/8/2012 18:02
1,1,1-Trichloroethane	ND	U	11.2	90.9	ug/Kg	100	11/8/2012 18:02
1,1,2,2-Tetrachloroethane	ND	U	14.2	90.9	ug/Kg	100	11/8/2012 18:02
1,1,2-Trichloroethane	ND	U	11.4	90.9	ug/Kg	100	11/8/2012 18:02
1,1-Dichloroethane	ND	U	15.0	90.9	ug/Kg	100	11/8/2012 18:02
1,1-Dichloroethene	**210**		19.3	90.9	ug/Kg	100	11/8/2012 18:02
1,1-Dichloropropene	ND	U	7.84	90.9	ug/Kg	100	11/8/2012 18:02
1,2,3-Trichlorobenzene	ND	U	9.99	90.9	ug/Kg	100	11/8/2012 18:02
1,2,3-Trichloropropane	ND	U	19.3	90.9	ug/Kg	100	11/8/2012 18:02
1,2,4-Trichlorobenzene	ND	U	8.30	90.9	ug/Kg	100	11/8/2012 18:02
1,2,4-Trimethylbenzene	ND	U	8.73	90.9	ug/Kg	100	11/8/2012 18:02
1,2-Dibromo-3-chloropropane	ND	U	68.0	454	ug/Kg	100	11/8/2012 18:02
1,2-Dibromoethane	ND	U	10.9	90.9	ug/Kg	100	11/8/2012 18:02
1,2-Dichlorobenzene	ND	U	12.4	90.9	ug/Kg	100	11/8/2012 18:02
1,2-Dichloroethane	ND	U	15.2	90.9	ug/Kg	100	11/8/2012 18:02
1,2-Dichloropropane	ND	U	14.8	90.9	ug/Kg	100	11/8/2012 18:02
1,3,5-Trimethylbenzene	ND	U	10.3	90.9	ug/Kg	100	11/8/2012 18:02
1,3-Dichlorobenzene	ND	U	9.36	90.9	ug/Kg	100	11/8/2012 18:02
1,3-Dichloropropane	ND	U	11.8	90.9	ug/Kg	100	11/8/2012 18:02
1,4-Dichlorobenzene	ND	U	11.8	90.9	ug/Kg	100	11/8/2012 18:02
2,2-Dichloropropane	ND	U	35.7	90.9	ug/Kg	100	11/8/2012 18:02
2-Butanone	ND	U	65.7	2270	ug/Kg	100	11/8/2012 18:02
2-Chlorotoluene	ND	U	10.3	90.9	ug/Kg	100	11/8/2012 18:02
2-Hexanone	ND	U	66.1	454	ug/Kg	100	11/8/2012 18:02
4-Chlorotoluene	ND	U	11.4	90.9	ug/Kg	100	11/8/2012 18:02
4-Isopropyltoluene	ND	U	6.99	90.9	ug/Kg	100	11/8/2012 18:02
4-Methyl-2-pentanone	ND	U	50.7	454	ug/Kg	100	11/8/2012 18:02
Acetone	ND	U	78.5	2270	ug/Kg	100	11/8/2012 18:02
Benzene	ND	U	10.3	90.9	ug/Kg	100	11/8/2012 18:02
Bromobenzene	ND	U	9.99	90.9	ug/Kg	100	11/8/2012 18:02
Bromochloromethane	ND	U	19.2	90.9	ug/Kg	100	11/8/2012 18:02
Bromodichloromethane	ND	U	9.99	90.9	ug/Kg	100	11/8/2012 18:02
Bromoform	ND	U	8.85	90.9	ug/Kg	100	11/8/2012 18:02
Bromomethane	ND	U	21.5	90.9	ug/Kg	100	11/8/2012 18:02
n-Butylbenzene	ND	U	6.99	90.9	ug/Kg	100	11/8/2012 18:02
Carbon disulfide	ND	U	9.63	90.9	ug/Kg	100	11/8/2012 18:02
Carbon tetrachloride	ND	U	9.18	90.9	ug/Kg	100	11/8/2012 18:02
Chlorobenzene	ND	U	10.5	90.9	ug/Kg	100	11/8/2012 18:02
Chloroethane	ND	U	28.3	90.9	ug/Kg	100	11/8/2012 18:02
Chloroform	ND	U	12.6	90.9	ug/Kg	100	11/8/2012 18:02
Chloromethane	ND	U	40.7	90.9	ug/Kg	100	11/8/2012 18:02
Dibromochloromethane	ND	U	12.2	90.9	ug/Kg	100	11/8/2012 18:02
Dibromomethane	ND	U	15.3	90.9	ug/Kg	100	11/8/2012 18:02

Print Date: 11/28/2012

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Results of **SB41-7-8**

Client Sample ID: **SB41-7-8**
Client Project ID: **2012.0009**
Lab Sample ID: 31203610026-D
Lab Project ID: 31203610

Collection Date: 11/01/2012 11:20
Received Date: 11/02/2012 14:00
Matrix: Soil-Solid as dry weight
Solids (%): 85.60

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
Dichlorodifluoromethane	ND	U	15.5	454	ug/Kg	100	11/8/2012 18:02
cis-1,3-Dichloropropene	ND	U	6.97	90.9	ug/Kg	100	11/8/2012 18:02
trans-1,3-Dichloropropene	ND	U	7.83	90.9	ug/Kg	100	11/8/2012 18:02
Diisopropyl Ether	ND	U	26.7	90.9	ug/Kg	100	11/8/2012 18:02
Ethyl Benzene	ND	U	7.97	90.9	ug/Kg	100	11/8/2012 18:02
Hexachlorobutadiene	ND	U	7.20	90.9	ug/Kg	100	11/8/2012 18:02
Isopropylbenzene (Cumene)	ND	U	7.90	90.9	ug/Kg	100	11/8/2012 18:02
Methyl iodide	ND	U	10.4	90.9	ug/Kg	100	11/8/2012 18:02
Methylene chloride	ND	U	13.8	454	ug/Kg	100	11/8/2012 18:02
Naphthalene	ND	U	7.77	90.9	ug/Kg	100	11/8/2012 18:02
Styrene	ND	U	9.27	90.9	ug/Kg	100	11/8/2012 18:02
Tetrachloroethene	**3230**		14.1	90.9	ug/Kg	100	11/8/2012 18:02
Toluene	ND	U	12.1	90.9	ug/Kg	100	11/8/2012 18:02
Trichloroethene	**107**		11.4	90.9	ug/Kg	100	11/8/2012 18:02
Trichlorofluoromethane	ND	U	12.4	90.9	ug/Kg	100	11/8/2012 18:02
Vinyl chloride	ND	U	11.3	90.9	ug/Kg	100	11/8/2012 18:02
Xylene (total)	ND	U	16.5	182	ug/Kg	100	11/8/2012 18:02
cis-1,2-Dichloroethene	**92.7**		12.4	90.9	ug/Kg	100	11/8/2012 18:02
m,p-Xylene	ND	U	16.5	182	ug/Kg	100	11/8/2012 18:02
n-Propylbenzene	ND	U	10.3	90.9	ug/Kg	100	11/8/2012 18:02
o-Xylene	ND	U	7.94	90.9	ug/Kg	100	11/8/2012 18:02
sec-Butylbenzene	ND	U	10.2	90.9	ug/Kg	100	11/8/2012 18:02
tert-Butyl methyl ether (MTBE)	ND	U	13.1	90.9	ug/Kg	100	11/8/2012 18:02
tert-Butylbenzene	ND	U	7.77	90.9	ug/Kg	100	11/8/2012 18:02
trans-1,2-Dichloroethene	ND	U	20.3	90.9	ug/Kg	100	11/8/2012 18:02
trans-1,4-Dichloro-2-butene	ND	U	37.6	454	ug/Kg	100	11/8/2012 18:02
Surrogates							
1,2-Dichloroethane-d4	101			55.0-173	%	100	11/8/2012 18:02
4-Bromofluorobenzene	102			23.0-141	%	100	11/8/2012 18:02
Toluene d8	103			57.0-134	%	100	11/8/2012 18:02

Batch Information

Analytical Batch: **VMS2724**
Analytical Method: **SW-846 8260B**
Instrument: **MSD8**
Analyst: **DVO**

Prep Batch: **VXX4316**
Prep Method: **SW-846 5035 SM**
Prep Date/Time: **11/06/2012 12:04**
Prep Initial Wt./Vol.: **6.43 g**
Prep Extract Vol: **5 mL**

Print Date: 11/28/2012

N.C. Certification # 481

Results of **SB42-0-1**

Client Sample ID: **SB42-0-1**
Client Project ID: **2012.0009**
Lab Sample ID: 31203610027-A
Lab Project ID: 31203610

Collection Date: 11/01/2012 11:45
Received Date: 11/02/2012 14:00
Matrix: Soil-Solid as dry weight
Solids (%): 87.40

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	U	0.389	3.96	ug/Kg	1	11/9/2012 11:12
1,1,1-Trichloroethane	ND	U	0.334	3.96	ug/Kg	1	11/9/2012 11:12
1,1,2,2-Tetrachloroethane	ND	U	0.649	3.96	ug/Kg	1	11/9/2012 11:12
1,1,2-Trichloroethane	ND	U	0.479	3.96	ug/Kg	1	11/9/2012 11:12
1,1-Dichloroethane	ND	U	0.465	3.96	ug/Kg	1	11/9/2012 11:12
1,1-Dichloroethene	ND	U	2.36	3.96	ug/Kg	1	11/9/2012 11:12
1,1-Dichloropropene	ND	U	0.380	3.96	ug/Kg	1	11/9/2012 11:12
1,2,3-Trichlorobenzene	ND	U	0.329	3.96	ug/Kg	1	11/9/2012 11:12
1,2,3-Trichloropropane	ND	U	0.491	3.96	ug/Kg	1	11/9/2012 11:12
1,2,4-Trichlorobenzene	ND	U	0.323	3.96	ug/Kg	1	11/9/2012 11:12
1,2,4-Trimethylbenzene	ND	U	0.381	3.96	ug/Kg	1	11/9/2012 11:12
1,2-Dibromo-3-chloropropane	ND	U	5.05	23.7	ug/Kg	1	11/9/2012 11:12
1,2-Dibromoethane	ND	U	0.443	3.96	ug/Kg	1	11/9/2012 11:12
1,2-Dichlorobenzene	ND	U	0.525	3.96	ug/Kg	1	11/9/2012 11:12
1,2-Dichloroethane	ND	U	0.648	3.96	ug/Kg	1	11/9/2012 11:12
1,2-Dichloropropane	ND	U	0.364	3.96	ug/Kg	1	11/9/2012 11:12
1,3,5-Trimethylbenzene	ND	U	0.646	3.96	ug/Kg	1	11/9/2012 11:12
1,3-Dichlorobenzene	ND	U	0.301	3.96	ug/Kg	1	11/9/2012 11:12
1,3-Dichloropropane	ND	U	0.536	3.96	ug/Kg	1	11/9/2012 11:12
1,4-Dichlorobenzene	ND	U	0.388	3.96	ug/Kg	1	11/9/2012 11:12
2,2-Dichloropropane	ND	U	0.377	3.96	ug/Kg	1	11/9/2012 11:12
2-Butanone	ND	U	2.12	19.8	ug/Kg	1	11/9/2012 11:12
2-Chlorotoluene	ND	U	0.544	3.96	ug/Kg	1	11/9/2012 11:12
2-Hexanone	ND	U	2.22	9.89	ug/Kg	1	11/9/2012 11:12
4-Chlorotoluene	ND	U	0.379	3.96	ug/Kg	1	11/9/2012 11:12
4-Isopropyltoluene	ND	U	0.445	3.96	ug/Kg	1	11/9/2012 11:12
4-Methyl-2-pentanone	ND	U	1.64	9.89	ug/Kg	1	11/9/2012 11:12
Acetone	**11.3**	J	2.96	39.6	ug/Kg	1	11/9/2012 11:12
Benzene	ND	U	0.307	3.96	ug/Kg	1	11/9/2012 11:12
Bromobenzene	ND	U	0.739	3.96	ug/Kg	1	11/9/2012 11:12
Bromochloromethane	ND	U	1.16	3.96	ug/Kg	1	11/9/2012 11:12
Bromodichloromethane	ND	U	0.538	3.96	ug/Kg	1	11/9/2012 11:12
Bromoform	ND	U	1.81	3.96	ug/Kg	1	11/9/2012 11:12
Bromomethane	ND	U	1.35	3.96	ug/Kg	1	11/9/2012 11:12
n-Butylbenzene	ND	U	0.335	3.96	ug/Kg	1	11/9/2012 11:12
Carbon disulfide	ND	U	0.649	3.96	ug/Kg	1	11/9/2012 11:12
Carbon tetrachloride	ND	U	0.443	3.96	ug/Kg	1	11/9/2012 11:12
Chlorobenzene	ND	U	0.385	3.96	ug/Kg	1	11/9/2012 11:12
Chloroethane	ND	U	0.973	3.96	ug/Kg	1	11/9/2012 11:12
Chloroform	ND	U	0.407	3.96	ug/Kg	1	11/9/2012 11:12
Chloromethane	ND	U	0.511	3.96	ug/Kg	1	11/9/2012 11:12
Dibromochloromethane	ND	U	0.642	3.96	ug/Kg	1	11/9/2012 11:12
Dibromomethane	ND	U	0.459	3.96	ug/Kg	1	11/9/2012 11:12

Print Date: 11/28/2012

N.C. Certification # 481

Results of **SB42-0-1**

Client Sample ID: **SB42-0-1**
Client Project ID: **2012.0009**
Lab Sample ID: 31203610027-A
Lab Project ID: 31203610

Collection Date: 11/01/2012 11:45
Received Date: 11/02/2012 14:00
Matrix: Soil-Solid as dry weight
Solids (%): 87.40

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
Dichlorodifluoromethane	ND	U	0.593	3.96	ug/Kg	1	11/9/2012 11:12
cis-1,3-Dichloropropene	ND	U	0.396	3.96	ug/Kg	1	11/9/2012 11:12
trans-1,3-Dichloropropene	ND	U	0.422	3.96	ug/Kg	1	11/9/2012 11:12
Diisopropyl Ether	ND	U	0.539	3.96	ug/Kg	1	11/9/2012 11:12
Ethyl Benzene	ND	U	0.350	3.96	ug/Kg	1	11/9/2012 11:12
Hexachlorobutadiene	ND	U	0.468	3.96	ug/Kg	1	11/9/2012 11:12
Isopropylbenzene (Cumene)	ND	U	0.296	3.96	ug/Kg	1	11/9/2012 11:12
Methyl iodide	ND	U	0.425	3.96	ug/Kg	1	11/9/2012 11:12
Methylene chloride	**0.878**	J	0.715	15.8	ug/Kg	1	11/9/2012 11:12
Naphthalene	ND	U	0.500	3.96	ug/Kg	1	11/9/2012 11:12
Styrene	ND	U	0.422	3.96	ug/Kg	1	11/9/2012 11:12
Tetrachloroethene	**8.62**		0.459	3.96	ug/Kg	1	11/9/2012 11:12
Toluene	ND	U	0.549	3.96	ug/Kg	1	11/9/2012 11:12
Trichloroethene	ND	U	0.509	3.96	ug/Kg	1	11/9/2012 11:12
Trichlorofluoromethane	ND	U	0.450	3.96	ug/Kg	1	11/9/2012 11:12
Vinyl chloride	ND	U	0.627	3.96	ug/Kg	1	11/9/2012 11:12
Xylene (total)	ND	U	1.40	7.91	ug/Kg	1	11/9/2012 11:12
cis-1,2-Dichloroethene	ND	U	0.529	3.96	ug/Kg	1	11/9/2012 11:12
m,p-Xylene	ND	U	0.617	7.91	ug/Kg	1	11/9/2012 11:12
n-Propylbenzene	ND	U	0.384	3.96	ug/Kg	1	11/9/2012 11:12
o-Xylene	ND	U	0.564	3.96	ug/Kg	1	11/9/2012 11:12
sec-Butylbenzene	ND	U	0.385	3.96	ug/Kg	1	11/9/2012 11:12
tert-Butyl methyl ether (MTBE)	ND	U	0.545	3.96	ug/Kg	1	11/9/2012 11:12
tert-Butylbenzene	ND	U	0.311	3.96	ug/Kg	1	11/9/2012 11:12
trans-1,2-Dichloroethene	ND	U	0.609	3.96	ug/Kg	1	11/9/2012 11:12
trans-1,4-Dichloro-2-butene	ND	U	4.64	19.8	ug/Kg	1	11/9/2012 11:12
Surrogates							
1,2-Dichloroethane-d4	111			55.0-173	%	1	11/9/2012 11:12
4-Bromofluorobenzene	97.0			23.0-141	%	1	11/9/2012 11:12
Toluene d8	102			57.0-134	%	1	11/9/2012 11:12

Batch Information

Analytical Batch: **VMS2727**
Analytical Method: **SW-846 8260B**
Instrument: **MSD2**
Analyst: **DVO**

Prep Batch: **VXX4310**
Prep Method: **SW-846 5035 SL**
Prep Date/Time: **11/06/2012 12:05**
Prep Initial Wt./Vol.: **7.23 g**
Prep Extract Vol: **5 mL**

Print Date: 11/28/2012

N.C. Certification # 481

Results of **SB42-1-2**

Client Sample ID: **SB42-1-2**
Client Project ID: **2012.0009**
Lab Sample ID: 31203610028-A
Lab Project ID: 31203610

Collection Date: 11/01/2012 11:50
Received Date: 11/02/2012 14:00
Matrix: Soil-Solid as dry weight
Solids (%): 85.60

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	U	0.674	4.75	ug/Kg	1	11/8/2012 17:41
1,1,1-Trichloroethane	ND	U	0.716	4.75	ug/Kg	1	11/8/2012 17:41
1,1,2,2-Tetrachloroethane	ND	U	1.11	4.75	ug/Kg	1	11/8/2012 17:41
1,1,2-Trichloroethane	ND	U	0.988	4.75	ug/Kg	1	11/8/2012 17:41
1,1-Dichloroethane	**0.998**	J	0.511	4.75	ug/Kg	1	11/8/2012 17:41
1,1-Dichloroethene	ND	U	1.10	4.75	ug/Kg	1	11/8/2012 17:41
1,1-Dichloropropene	ND	U	0.642	4.75	ug/Kg	1	11/8/2012 17:41
1,2,3-Trichlorobenzene	ND	U	0.790	4.75	ug/Kg	1	11/8/2012 17:41
1,2,3-Trichloropropane	ND	U	0.979	4.75	ug/Kg	1	11/8/2012 17:41
1,2,4-Trichlorobenzene	ND	U	0.693	4.75	ug/Kg	1	11/8/2012 17:41
1,2,4-Trimethylbenzene	ND	U	0.605	4.75	ug/Kg	1	11/8/2012 17:41
1,2-Dibromo-3-chloropropane	ND	U	7.04	28.5	ug/Kg	1	11/8/2012 17:41
1,2-Dibromoethane	ND	U	1.24	4.75	ug/Kg	1	11/8/2012 17:41
1,2-Dichlorobenzene	ND	U	0.675	4.75	ug/Kg	1	11/8/2012 17:41
1,2-Dichloroethane	ND	U	0.867	4.75	ug/Kg	1	11/8/2012 17:41
1,2-Dichloropropane	ND	U	1.09	4.75	ug/Kg	1	11/8/2012 17:41
1,3,5-Trimethylbenzene	ND	U	0.578	4.75	ug/Kg	1	11/8/2012 17:41
1,3-Dichlorobenzene	ND	U	0.683	4.75	ug/Kg	1	11/8/2012 17:41
1,3-Dichloropropane	ND	U	0.835	4.75	ug/Kg	1	11/8/2012 17:41
1,4-Dichlorobenzene	ND	U	0.641	4.75	ug/Kg	1	11/8/2012 17:41
2,2-Dichloropropane	ND	U	0.701	4.75	ug/Kg	1	11/8/2012 17:41
2-Butanone	ND	U	3.21	23.8	ug/Kg	1	11/8/2012 17:41
2-Chlorotoluene	ND	U	0.890	4.75	ug/Kg	1	11/8/2012 17:41
2-Hexanone	ND	U	3.06	11.9	ug/Kg	1	11/8/2012 17:41
4-Chlorotoluene	ND	U	0.718	4.75	ug/Kg	1	11/8/2012 17:41
4-Isopropyltoluene	ND	U	0.613	4.75	ug/Kg	1	11/8/2012 17:41
4-Methyl-2-pentanone	ND	U	3.55	11.9	ug/Kg	1	11/8/2012 17:41
Acetone	**9.83**	J	3.81	47.5	ug/Kg	1	11/8/2012 17:41
Benzene	ND	U	0.675	4.75	ug/Kg	1	11/8/2012 17:41
Bromobenzene	ND	U	0.662	4.75	ug/Kg	1	11/8/2012 17:41
Bromochloromethane	ND	U	0.893	4.75	ug/Kg	1	11/8/2012 17:41
Bromodichloromethane	ND	U	0.669	4.75	ug/Kg	1	11/8/2012 17:41
Bromoform	ND	U	0.688	4.75	ug/Kg	1	11/8/2012 17:41
Bromomethane	ND	U	1.38	4.75	ug/Kg	1	11/8/2012 17:41
n-Butylbenzene	ND	U	0.624	4.75	ug/Kg	1	11/8/2012 17:41
Carbon disulfide	ND	U	0.497	4.75	ug/Kg	1	11/8/2012 17:41
Carbon tetrachloride	ND	U	0.541	4.75	ug/Kg	1	11/8/2012 17:41
Chlorobenzene	ND	U	0.663	4.75	ug/Kg	1	11/8/2012 17:41
Chloroethane	ND	U	0.950	4.75	ug/Kg	1	11/8/2012 17:41
Chloroform	ND	U	0.605	4.75	ug/Kg	1	11/8/2012 17:41
Chloromethane	ND	U	1.36	4.75	ug/Kg	1	11/8/2012 17:41
Dibromochloromethane	ND	U	1.05	4.75	ug/Kg	1	11/8/2012 17:41
Dibromomethane	ND	U	0.838	4.75	ug/Kg	1	11/8/2012 17:41

Print Date: 11/28/2012

N.C. Certification # 481

Results of **SB42-1-2**

Client Sample ID: **SB42-1-2**
Client Project ID: **2012.0009**
Lab Sample ID: 31203610028-A
Lab Project ID: 31203610

Collection Date: 11/01/2012 11:50
Received Date: 11/02/2012 14:00
Matrix: Soil-Solid as dry weight
Solids (%): 85.60

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
Dichlorodifluoromethane	ND	U	0.998	4.75	ug/Kg	1	11/8/2012 17:41
cis-1,3-Dichloropropene	ND	U	0.979	4.75	ug/Kg	1	11/8/2012 17:41
trans-1,3-Dichloropropene	ND	U	0.897	4.75	ug/Kg	1	11/8/2012 17:41
Diisopropyl Ether	ND	U	0.780	4.75	ug/Kg	1	11/8/2012 17:41
Ethyl Benzene	ND	U	0.670	4.75	ug/Kg	1	11/8/2012 17:41
Hexachlorobutadiene	ND	U	0.653	4.75	ug/Kg	1	11/8/2012 17:41
Isopropylbenzene (Cumene)	ND	U	0.591	4.75	ug/Kg	1	11/8/2012 17:41
Methyl iodide	ND	U	0.728	4.75	ug/Kg	1	11/8/2012 17:41
Methylene chloride	**1.85**	J	0.998	19.0	ug/Kg	1	11/8/2012 17:41
Naphthalene	ND	U	0.864	4.75	ug/Kg	1	11/8/2012 17:41
Styrene	ND	U	0.547	4.75	ug/Kg	1	11/8/2012 17:41
Tetrachloroethene	**25.4**		0.713	4.75	ug/Kg	1	11/8/2012 17:41
Toluene	ND	U	0.654	4.75	ug/Kg	1	11/8/2012 17:41
Trichloroethene	ND	U	0.800	4.75	ug/Kg	1	11/8/2012 17:41
Trichlorofluoromethane	ND	U	0.960	4.75	ug/Kg	1	11/8/2012 17:41
Vinyl chloride	ND	U	0.903	4.75	ug/Kg	1	11/8/2012 17:41
Xylene (total)	ND	U	1.68	9.50	ug/Kg	1	11/8/2012 17:41
cis-1,2-Dichloroethene	ND	U	0.580	4.75	ug/Kg	1	11/8/2012 17:41
m,p-Xylene	ND	U	1.61	9.50	ug/Kg	1	11/8/2012 17:41
n-Propylbenzene	ND	U	0.695	4.75	ug/Kg	1	11/8/2012 17:41
o-Xylene	ND	U	0.728	4.75	ug/Kg	1	11/8/2012 17:41
sec-Butylbenzene	ND	U	0.570	4.75	ug/Kg	1	11/8/2012 17:41
tert-Butyl methyl ether (MTBE)	ND	U	0.755	4.75	ug/Kg	1	11/8/2012 17:41
tert-Butylbenzene	ND	U	0.639	4.75	ug/Kg	1	11/8/2012 17:41
trans-1,2-Dichloroethene	ND	U	0.694	4.75	ug/Kg	1	11/8/2012 17:41
trans-1,4-Dichloro-2-butene	ND	U	3.99	23.8	ug/Kg	1	11/8/2012 17:41
Surrogates							
1,2-Dichloroethane-d4	116			55.0-173	%	1	11/8/2012 17:41
4-Bromofluorobenzene	96.0			23.0-141	%	1	11/8/2012 17:41
Toluene d8	100			57.0-134	%	1	11/8/2012 17:41

Batch Information

Analytical Batch: **VMS2722**
Analytical Method: **SW-846 8260B**
Instrument: **MSD9**
Analyst: **DVO**

Prep Batch: **VXX4299**
Prep Method: **SW-846 5035 SL**
Prep Date/Time: **11/06/2012 12:11**
Prep Initial Wt./Vol.: **6.15 g**
Prep Extract Vol: **5 mL**

Print Date: 11/28/2012

N.C. Certification # 481

Results of **SB42-2-3**

Client Sample ID: **SB42-2-3**
Client Project ID: **2012.0009**
Lab Sample ID: 31203610029-A
Lab Project ID: 31203610

Collection Date: 11/01/2012 12:00
Received Date: 11/02/2012 14:00
Matrix: Soil-Solid as dry weight
Solids (%): 80.70

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	U	0.652	4.59	ug/Kg	1	11/8/2012 19:00
1,1,1-Trichloroethane	**1.24**	J	0.693	4.59	ug/Kg	1	11/8/2012 19:00
1,1,2,2-Tetrachloroethane	ND	U	1.08	4.59	ug/Kg	1	11/8/2012 19:00
1,1,2-Trichloroethane	ND	U	0.956	4.59	ug/Kg	1	11/8/2012 19:00
1,1-Dichloroethane	**10.8**		0.494	4.59	ug/Kg	1	11/8/2012 19:00
1,1-Dichloroethene	**2.52**	J	1.07	4.59	ug/Kg	1	11/8/2012 19:00
1,1-Dichloropropene	ND	U	0.621	4.59	ug/Kg	1	11/8/2012 19:00
1,2,3-Trichlorobenzene	ND	U	0.765	4.59	ug/Kg	1	11/8/2012 19:00
1,2,3-Trichloropropane	ND	U	0.947	4.59	ug/Kg	1	11/8/2012 19:00
1,2,4-Trichlorobenzene	ND	U	0.670	4.59	ug/Kg	1	11/8/2012 19:00
1,2,4-Trimethylbenzene	ND	U	0.585	4.59	ug/Kg	1	11/8/2012 19:00
1,2-Dibromo-3-chloropropane	ND	U	6.81	27.6	ug/Kg	1	11/8/2012 19:00
1,2-Dibromoethane	ND	U	1.20	4.59	ug/Kg	1	11/8/2012 19:00
1,2-Dichlorobenzene	**1.56**	J	0.653	4.59	ug/Kg	1	11/8/2012 19:00
1,2-Dichloroethane	ND	U	0.839	4.59	ug/Kg	1	11/8/2012 19:00
1,2-Dichloropropane	ND	U	1.06	4.59	ug/Kg	1	11/8/2012 19:00
1,3,5-Trimethylbenzene	ND	U	0.559	4.59	ug/Kg	1	11/8/2012 19:00
1,3-Dichlorobenzene	ND	U	0.661	4.59	ug/Kg	1	11/8/2012 19:00
1,3-Dichloropropane	ND	U	0.808	4.59	ug/Kg	1	11/8/2012 19:00
1,4-Dichlorobenzene	ND	U	0.620	4.59	ug/Kg	1	11/8/2012 19:00
2,2-Dichloropropane	ND	U	0.678	4.59	ug/Kg	1	11/8/2012 19:00
2-Butanone	**6.78**	J	3.11	23.0	ug/Kg	1	11/8/2012 19:00
2-Chlorotoluene	ND	U	0.861	4.59	ug/Kg	1	11/8/2012 19:00
2-Hexanone	ND	U	2.96	11.5	ug/Kg	1	11/8/2012 19:00
4-Chlorotoluene	ND	U	0.695	4.59	ug/Kg	1	11/8/2012 19:00
4-Isopropyltoluene	ND	U	0.593	4.59	ug/Kg	1	11/8/2012 19:00
4-Methyl-2-pentanone	ND	U	3.44	11.5	ug/Kg	1	11/8/2012 19:00
Acetone	**12.1**	J	3.69	45.9	ug/Kg	1	11/8/2012 19:00
Benzene	ND	U	0.653	4.59	ug/Kg	1	11/8/2012 19:00
Bromobenzene	ND	U	0.641	4.59	ug/Kg	1	11/8/2012 19:00
Bromochloromethane	ND	U	0.864	4.59	ug/Kg	1	11/8/2012 19:00
Bromodichloromethane	ND	U	0.647	4.59	ug/Kg	1	11/8/2012 19:00
Bromoform	ND	U	0.665	4.59	ug/Kg	1	11/8/2012 19:00
Bromomethane	ND	U	1.33	4.59	ug/Kg	1	11/8/2012 19:00
n-Butylbenzene	ND	U	0.604	4.59	ug/Kg	1	11/8/2012 19:00
Carbon disulfide	ND	U	0.481	4.59	ug/Kg	1	11/8/2012 19:00
Carbon tetrachloride	ND	U	0.523	4.59	ug/Kg	1	11/8/2012 19:00
Chlorobenzene	ND	U	0.641	4.59	ug/Kg	1	11/8/2012 19:00
Chloroethane	**3.35**	J	0.919	4.59	ug/Kg	1	11/8/2012 19:00
Chloroform	ND	U	0.585	4.59	ug/Kg	1	11/8/2012 19:00
Chloromethane	ND	U	1.31	4.59	ug/Kg	1	11/8/2012 19:00
Dibromochloromethane	ND	U	1.02	4.59	ug/Kg	1	11/8/2012 19:00
Dibromomethane	ND	U	0.811	4.59	ug/Kg	1	11/8/2012 19:00

Print Date: 11/28/2012

N.C. Certification # 481

Results of **SB42-2-3**

Client Sample ID: **SB42-2-3**
Client Project ID: **2012.0009**
Lab Sample ID: 31203610029-A
Lab Project ID: 31203610

Collection Date: 11/01/2012 12:00
Received Date: 11/02/2012 14:00
Matrix: Soil-Solid as dry weight
Solids (%): 80.70

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
Dichlorodifluoromethane	ND	U	0.965	4.59	ug/Kg	1	11/8/2012 19:00
cis-1,3-Dichloropropene	ND	U	0.947	4.59	ug/Kg	1	11/8/2012 19:00
trans-1,3-Dichloropropene	ND	U	0.868	4.59	ug/Kg	1	11/8/2012 19:00
Diisopropyl Ether	ND	U	0.754	4.59	ug/Kg	1	11/8/2012 19:00
Ethyl Benzene	ND	U	0.648	4.59	ug/Kg	1	11/8/2012 19:00
Hexachlorobutadiene	ND	U	0.631	4.59	ug/Kg	1	11/8/2012 19:00
Isopropylbenzene (Cumene)	ND	U	0.572	4.59	ug/Kg	1	11/8/2012 19:00
Methyl iodide	ND	U	0.704	4.59	ug/Kg	1	11/8/2012 19:00
Methylene chloride	**1.02**	J	0.965	18.4	ug/Kg	1	11/8/2012 19:00
Naphthalene	ND	U	0.835	4.59	ug/Kg	1	11/8/2012 19:00
Styrene	ND	U	0.529	4.59	ug/Kg	1	11/8/2012 19:00
Tetrachloroethene	**103**		0.690	4.59	ug/Kg	1	11/8/2012 19:00
Toluene	ND	U	0.632	4.59	ug/Kg	1	11/8/2012 19:00
Trichloroethene	**2.87**	J	0.774	4.59	ug/Kg	1	11/8/2012 19:00
Trichlorofluoromethane	ND	U	0.928	4.59	ug/Kg	1	11/8/2012 19:00
Vinyl chloride	ND	U	0.873	4.59	ug/Kg	1	11/8/2012 19:00
Xylene (total)	ND	U	1.63	9.19	ug/Kg	1	11/8/2012 19:00
cis-1,2-Dichloroethene	**4.73**		0.561	4.59	ug/Kg	1	11/8/2012 19:00
m,p-Xylene	ND	U	1.55	9.19	ug/Kg	1	11/8/2012 19:00
n-Propylbenzene	ND	U	0.673	4.59	ug/Kg	1	11/8/2012 19:00
o-Xylene	ND	U	0.704	4.59	ug/Kg	1	11/8/2012 19:00
sec-Butylbenzene	ND	U	0.551	4.59	ug/Kg	1	11/8/2012 19:00
tert-Butyl methyl ether (MTBE)	ND	U	0.731	4.59	ug/Kg	1	11/8/2012 19:00
tert-Butylbenzene	ND	U	0.618	4.59	ug/Kg	1	11/8/2012 19:00
trans-1,2-Dichloroethene	ND	U	0.671	4.59	ug/Kg	1	11/8/2012 19:00
trans-1,4-Dichloro-2-butene	ND	U	3.86	23.0	ug/Kg	1	11/8/2012 19:00
Surrogates							
1,2-Dichloroethane-d4	110			55.0-173	%	1	11/8/2012 19:00
4-Bromofluorobenzene	95.0			23.0-141	%	1	11/8/2012 19:00
Toluene d8	97.0			57.0-134	%	1	11/8/2012 19:00

Batch Information

Analytical Batch: **VMS2722**
Analytical Method: **SW-846 8260B**
Instrument: **MSD9**
Analyst: **DVO**

Prep Batch: **VXX4299**
Prep Method: **SW-846 5035 SL**
Prep Date/Time: **11/06/2012 12:13**
Prep Initial Wt./Vol.: **6.74 g**
Prep Extract Vol: **5 mL**

Print Date: 11/28/2012

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Results of **SB42-3-4**

Client Sample ID: **SB42-3-4**
Client Project ID: **2012.0009**
Lab Sample ID: 31203610030-A
Lab Project ID: 31203610

Collection Date: 11/01/2012 12:05
Received Date: 11/02/2012 14:00
Matrix: Soil-Solid as dry weight
Solids (%): 81.00

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	U	0.711	5.01	ug/Kg	1	11/8/2012 18:07
1,1,1-Trichloroethane	ND	U	0.756	5.01	ug/Kg	1	11/8/2012 18:07
1,1,2,2-Tetrachloroethane	ND	U	1.17	5.01	ug/Kg	1	11/8/2012 18:07
1,1,2-Trichloroethane	ND	U	1.04	5.01	ug/Kg	1	11/8/2012 18:07
1,1-Dichloroethane	**137**		0.539	5.01	ug/Kg	1	11/8/2012 18:07
1,1-Dichloroethene	ND	U	1.16	5.01	ug/Kg	1	11/8/2012 18:07
1,1-Dichloropropene	ND	U	0.678	5.01	ug/Kg	1	11/8/2012 18:07
1,2,3-Trichlorobenzene	ND	U	0.834	5.01	ug/Kg	1	11/8/2012 18:07
1,2,3-Trichloropropane	ND	U	1.03	5.01	ug/Kg	1	11/8/2012 18:07
1,2,4-Trichlorobenzene	ND	U	0.731	5.01	ug/Kg	1	11/8/2012 18:07
1,2,4-Trimethylbenzene	**7.38**		0.639	5.01	ug/Kg	1	11/8/2012 18:07
1,2-Dibromo-3-chloropropane	ND	U	7.43	30.1	ug/Kg	1	11/8/2012 18:07
1,2-Dibromoethane	ND	U	1.31	5.01	ug/Kg	1	11/8/2012 18:07
1,2-Dichlorobenzene	**2.82**	J	0.713	5.01	ug/Kg	1	11/8/2012 18:07
1,2-Dichloroethane	ND	U	0.915	5.01	ug/Kg	1	11/8/2012 18:07
1,2-Dichloropropane	ND	U	1.15	5.01	ug/Kg	1	11/8/2012 18:07
1,3,5-Trimethylbenzene	**4.10**	J	0.610	5.01	ug/Kg	1	11/8/2012 18:07
1,3-Dichlorobenzene	ND	U	0.721	5.01	ug/Kg	1	11/8/2012 18:07
1,3-Dichloropropane	ND	U	0.881	5.01	ug/Kg	1	11/8/2012 18:07
1,4-Dichlorobenzene	ND	U	0.677	5.01	ug/Kg	1	11/8/2012 18:07
2,2-Dichloropropane	ND	U	0.740	5.01	ug/Kg	1	11/8/2012 18:07
2-Butanone	**4.41**	J	3.39	25.1	ug/Kg	1	11/8/2012 18:07
2-Chlorotoluene	ND	U	0.940	5.01	ug/Kg	1	11/8/2012 18:07
2-Hexanone	ND	U	3.23	12.5	ug/Kg	1	11/8/2012 18:07
4-Chlorotoluene	ND	U	0.758	5.01	ug/Kg	1	11/8/2012 18:07
4-Isopropyltoluene	**10.5**		0.647	5.01	ug/Kg	1	11/8/2012 18:07
4-Methyl-2-pentanone	ND	U	3.75	12.5	ug/Kg	1	11/8/2012 18:07
Acetone	**21.7**	J	4.02	50.1	ug/Kg	1	11/8/2012 18:07
Benzene	ND	U	0.713	5.01	ug/Kg	1	11/8/2012 18:07
Bromobenzene	ND	U	0.699	5.01	ug/Kg	1	11/8/2012 18:07
Bromochloromethane	ND	U	0.943	5.01	ug/Kg	1	11/8/2012 18:07
Bromodichloromethane	ND	U	0.706	5.01	ug/Kg	1	11/8/2012 18:07
Bromoform	ND	U	0.726	5.01	ug/Kg	1	11/8/2012 18:07
Bromomethane	ND	U	1.45	5.01	ug/Kg	1	11/8/2012 18:07
n-Butylbenzene	ND	U	0.659	5.01	ug/Kg	1	11/8/2012 18:07
Carbon disulfide	ND	U	0.524	5.01	ug/Kg	1	11/8/2012 18:07
Carbon tetrachloride	ND	U	0.571	5.01	ug/Kg	1	11/8/2012 18:07
Chlorobenzene	ND	U	0.700	5.01	ug/Kg	1	11/8/2012 18:07
Chloroethane	ND	U	1.00	5.01	ug/Kg	1	11/8/2012 18:07
Chloroform	ND	U	0.639	5.01	ug/Kg	1	11/8/2012 18:07
Chloromethane	ND	U	1.43	5.01	ug/Kg	1	11/8/2012 18:07
Dibromochloromethane	ND	U	1.11	5.01	ug/Kg	1	11/8/2012 18:07
Dibromomethane	ND	U	0.884	5.01	ug/Kg	1	11/8/2012 18:07

Print Date: 11/28/2012

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Results of **SB42-3-4**

Client Sample ID: **SB42-3-4**
Client Project ID: **2012.0009**
Lab Sample ID: 31203610030-A
Lab Project ID: 31203610

Collection Date: 11/01/2012 12:05
Received Date: 11/02/2012 14:00
Matrix: Soil-Solid as dry weight
Solids (%): 81.00

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
Dichlorodifluoromethane	ND	U	1.05	5.01	ug/Kg	1	11/8/2012 18:07
cis-1,3-Dichloropropene	ND	U	1.03	5.01	ug/Kg	1	11/8/2012 18:07
trans-1,3-Dichloropropene	ND	U	0.947	5.01	ug/Kg	1	11/8/2012 18:07
Diisopropyl Ether	ND	U	0.823	5.01	ug/Kg	1	11/8/2012 18:07
Ethyl Benzene	**69.0**		0.707	5.01	ug/Kg	1	11/8/2012 18:07
Hexachlorobutadiene	ND	U	0.689	5.01	ug/Kg	1	11/8/2012 18:07
Isopropylbenzene (Cumene)	**4.47**	J	0.624	5.01	ug/Kg	1	11/8/2012 18:07
Methyl iodide	ND	U	0.768	5.01	ug/Kg	1	11/8/2012 18:07
Methylene chloride	**4.96**	J	1.05	20.1	ug/Kg	1	11/8/2012 18:07
Naphthalene	**1.23**	J	0.911	5.01	ug/Kg	1	11/8/2012 18:07
Styrene	ND	U	0.578	5.01	ug/Kg	1	11/8/2012 18:07
Tetrachloroethene	**81.7**		0.753	5.01	ug/Kg	1	11/8/2012 18:07
Toluene	**30.9**		0.690	5.01	ug/Kg	1	11/8/2012 18:07
Trichloroethene	**6.30**		0.844	5.01	ug/Kg	1	11/8/2012 18:07
Trichlorofluoromethane	ND	U	1.01	5.01	ug/Kg	1	11/8/2012 18:07
Vinyl chloride	**53.9**		0.953	5.01	ug/Kg	1	11/8/2012 18:07
Xylene (total)	**285**		1.77	10.0	ug/Kg	1	11/8/2012 18:07
cis-1,2-Dichloroethene	**6.89**		0.613	5.01	ug/Kg	1	11/8/2012 18:07
m,p-Xylene	**189**		1.69	10.0	ug/Kg	1	11/8/2012 18:07
n-Propylbenzene	**4.01**	J	0.734	5.01	ug/Kg	1	11/8/2012 18:07
o-Xylene	**95.5**		0.768	5.01	ug/Kg	1	11/8/2012 18:07
sec-Butylbenzene	ND	U	0.602	5.01	ug/Kg	1	11/8/2012 18:07
tert-Butyl methyl ether (MTBE)	ND	U	0.797	5.01	ug/Kg	1	11/8/2012 18:07
tert-Butylbenzene	ND	U	0.675	5.01	ug/Kg	1	11/8/2012 18:07
trans-1,2-Dichloroethene	**10.9**		0.732	5.01	ug/Kg	1	11/8/2012 18:07
trans-1,4-Dichloro-2-butene	ND	U	4.21	25.1	ug/Kg	1	11/8/2012 18:07
Surrogates							
1,2-Dichloroethane-d4	114			55.0-173	%	1	11/8/2012 18:07
4-Bromofluorobenzene	94.0			23.0-141	%	1	11/8/2012 18:07
Toluene d8	99.0			57.0-134	%	1	11/8/2012 18:07

Batch Information

Analytical Batch: **VMS2722**
Analytical Method: **SW-846 8260B**
Instrument: **MSD9**
Analyst: **DVO**

Prep Batch: **VXX4299**
Prep Method: **SW-846 5035 SL**
Prep Date/Time: **11/06/2012 12:14**
Prep Initial Wt./Vol.: **6.16 g**
Prep Extract Vol: **5 mL**

Print Date: 11/28/2012

N.C. Certification # 481

Results of **SB42-4-5**

Client Sample ID: **SB42-4-5**
Client Project ID: **2012.0009**
Lab Sample ID: 31203610031-D
Lab Project ID: 31203610

Collection Date: 11/01/2012 12:15
Received Date: 11/02/2012 14:00
Matrix: Soil-Solid as dry weight
Solids (%): 78.70

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	U	9670	93000	ug/Kg	100000	11/9/2012 18:51
1,1,1-Trichloroethane	ND	U	11400	93000	ug/Kg	100000	11/9/2012 18:51
1,1,2,2-Tetrachloroethane	ND	U	14500	93000	ug/Kg	100000	11/9/2012 18:51
1,1,2-Trichloroethane	ND	U	11700	93000	ug/Kg	100000	11/9/2012 18:51
1,1-Dichloroethane	ND	U	15300	93000	ug/Kg	100000	11/9/2012 18:51
1,1-Dichloroethene	ND	U	19700	93000	ug/Kg	100000	11/9/2012 18:51
1,1-Dichloropropene	ND	U	8030	93000	ug/Kg	100000	11/9/2012 18:51
1,2,3-Trichlorobenzene	ND	U	10200	93000	ug/Kg	100000	11/9/2012 18:51
1,2,3-Trichloropropane	ND	U	19700	93000	ug/Kg	100000	11/9/2012 18:51
1,2,4-Trichlorobenzene	ND	U	8490	93000	ug/Kg	100000	11/9/2012 18:51
1,2,4-Trimethylbenzene	ND	U	8940	93000	ug/Kg	100000	11/9/2012 18:51
1,2-Dibromo-3-chloropropane	ND	U	69600	465000	ug/Kg	100000	11/9/2012 18:51
1,2-Dibromoethane	ND	U	11200	93000	ug/Kg	100000	11/9/2012 18:51
1,2-Dichlorobenzene	ND	U	12700	93000	ug/Kg	100000	11/9/2012 18:51
1,2-Dichloroethane	ND	U	15500	93000	ug/Kg	100000	11/9/2012 18:51
1,2-Dichloropropane	ND	U	15200	93000	ug/Kg	100000	11/9/2012 18:51
1,3,5-Trimethylbenzene	ND	U	10500	93000	ug/Kg	100000	11/9/2012 18:51
1,3-Dichlorobenzene	ND	U	9580	93000	ug/Kg	100000	11/9/2012 18:51
1,3-Dichloropropane	ND	U	12100	93000	ug/Kg	100000	11/9/2012 18:51
1,4-Dichlorobenzene	ND	U	12100	93000	ug/Kg	100000	11/9/2012 18:51
2,2-Dichloropropane	ND	U	36600	93000	ug/Kg	100000	11/9/2012 18:51
2-Butanone	ND	U	67200	2330000	ug/Kg	100000	11/9/2012 18:51
2-Chlorotoluene	ND	U	10500	93000	ug/Kg	100000	11/9/2012 18:51
2-Hexanone	ND	U	67700	465000	ug/Kg	100000	11/9/2012 18:51
4-Chlorotoluene	ND	U	11600	93000	ug/Kg	100000	11/9/2012 18:51
4-Isopropyltoluene	ND	U	7150	93000	ug/Kg	100000	11/9/2012 18:51
4-Methyl-2-pentanone	ND	U	51900	465000	ug/Kg	100000	11/9/2012 18:51
Acetone	ND	U	80400	2330000	ug/Kg	100000	11/9/2012 18:51
Benzene	ND	U	10500	93000	ug/Kg	100000	11/9/2012 18:51
Bromobenzene	ND	U	10200	93000	ug/Kg	100000	11/9/2012 18:51
Bromochloromethane	ND	U	19600	93000	ug/Kg	100000	11/9/2012 18:51
Bromodichloromethane	ND	U	10200	93000	ug/Kg	100000	11/9/2012 18:51
Bromoform	ND	U	9060	93000	ug/Kg	100000	11/9/2012 18:51
Bromomethane	ND	U	22000	93000	ug/Kg	100000	11/9/2012 18:51
n-Butylbenzene	ND	U	7150	93000	ug/Kg	100000	11/9/2012 18:51
Carbon disulfide	ND	U	9860	93000	ug/Kg	100000	11/9/2012 18:51
Carbon tetrachloride	ND	U	9390	93000	ug/Kg	100000	11/9/2012 18:51
Chlorobenzene	ND	U	10800	93000	ug/Kg	100000	11/9/2012 18:51
Chloroethane	ND	U	28900	93000	ug/Kg	100000	11/9/2012 18:51
Chloroform	ND	U	12900	93000	ug/Kg	100000	11/9/2012 18:51
Chloromethane	ND	U	41700	93000	ug/Kg	100000	11/9/2012 18:51
Dibromochloromethane	ND	U	12500	93000	ug/Kg	100000	11/9/2012 18:51
Dibromomethane	ND	U	15600	93000	ug/Kg	100000	11/9/2012 18:51

Print Date: 11/28/2012

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Results of **SB42-4-5**

Client Sample ID: **SB42-4-5**
Client Project ID: **2012.0009**
Lab Sample ID: 31203610031-D
Lab Project ID: 31203610

Collection Date: 11/01/2012 12:15
Received Date: 11/02/2012 14:00
Matrix: Soil-Solid as dry weight
Solids (%): 78.70

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
Dichlorodifluoromethane	ND	U	15900	465000	ug/Kg	100000	11/9/2012 18:51
cis-1,3-Dichloropropene	ND	U	7130	93000	ug/Kg	100000	11/9/2012 18:51
trans-1,3-Dichloropropene	ND	U	8020	93000	ug/Kg	100000	11/9/2012 18:51
Diisopropyl Ether	ND	U	27300	93000	ug/Kg	100000	11/9/2012 18:51
Ethyl Benzene	ND	U	8160	93000	ug/Kg	100000	11/9/2012 18:51
Hexachlorobutadiene	ND	U	7370	93000	ug/Kg	100000	11/9/2012 18:51
Isopropylbenzene (Cumene)	ND	U	8080	93000	ug/Kg	100000	11/9/2012 18:51
Methyl iodide	ND	U	10700	93000	ug/Kg	100000	11/9/2012 18:51
Methylene chloride	ND	U	14100	465000	ug/Kg	100000	11/9/2012 18:51
Naphthalene	ND	U	7950	93000	ug/Kg	100000	11/9/2012 18:51
Styrene	ND	U	9490	93000	ug/Kg	100000	11/9/2012 18:51
Tetrachloroethene	**3010000**		14400	93000	ug/Kg	100000	11/9/2012 18:51
Toluene	ND	U	12400	93000	ug/Kg	100000	11/9/2012 18:51
Trichloroethene	**149000**		11600	93000	ug/Kg	100000	11/9/2012 18:51
Trichlorofluoromethane	ND	U	12700	93000	ug/Kg	100000	11/9/2012 18:51
Vinyl chloride	ND	U	11500	93000	ug/Kg	100000	11/9/2012 18:51
Xylene (total)	**20500**	J	16900	186000	ug/Kg	100000	11/9/2012 18:51
cis-1,2-Dichloroethene	**46500**	J	12600	93000	ug/Kg	100000	11/9/2012 18:51
m,p-Xylene	**20500**	J	16900	186000	ug/Kg	100000	11/9/2012 18:51
n-Propylbenzene	ND	U	10500	93000	ug/Kg	100000	11/9/2012 18:51
o-Xylene	ND	U	8130	93000	ug/Kg	100000	11/9/2012 18:51
sec-Butylbenzene	ND	U	10400	93000	ug/Kg	100000	11/9/2012 18:51
tert-Butyl methyl ether (MTBE)	ND	U	13400	93000	ug/Kg	100000	11/9/2012 18:51
tert-Butylbenzene	ND	U	7950	93000	ug/Kg	100000	11/9/2012 18:51
trans-1,2-Dichloroethene	ND	U	20700	93000	ug/Kg	100000	11/9/2012 18:51
trans-1,4-Dichloro-2-butene	ND	U	38500	465000	ug/Kg	100000	11/9/2012 18:51

Surrogates

1,2-Dichloroethane-d4	100	55.0-173	%	100000	11/9/2012 18:51
4-Bromofluorobenzene	103	23.0-141	%	100000	11/9/2012 18:51
Toluene d8	93.0	57.0-134	%	100000	11/9/2012 18:51

Batch Information

Analytical Batch: **VMS2728**
Analytical Method: **SW-846 8260B**
Instrument: **MSD8**
Analyst: **DVO**

Prep Batch: **VXX4327**
Prep Method: **SW-846 5035 SM**
Prep Date/Time: **11/06/2012 12:16**
Prep Initial Wt./Vol.: **6.83 g**
Prep Extract Vol: **5 mL**

Print Date: 11/28/2012

N.C. Certification # 481

Results of **SB42-5-6**

Client Sample ID: **SB42-5-6**
Client Project ID: **2012.0009**
Lab Sample ID: 31203610032-D
Lab Project ID: 31203610

Collection Date: 11/01/2012 12:20
Received Date: 11/02/2012 14:00
Matrix: Soil-Solid as dry weight
Solids (%): 80.90

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	U	966	9290	ug/Kg	10000	11/8/2012 19:40
1,1,1-Trichloroethane	**11800**		1140	9290	ug/Kg	10000	11/8/2012 19:40
1,1,2,2-Tetrachloroethane	ND	U	1450	9290	ug/Kg	10000	11/8/2012 19:40
1,1,2-Trichloroethane	ND	U	1170	9290	ug/Kg	10000	11/8/2012 19:40
1,1-Dichloroethane	ND	U	1530	9290	ug/Kg	10000	11/8/2012 19:40
1,1-Dichloroethene	**3250**	J	1970	9290	ug/Kg	10000	11/8/2012 19:40
1,1-Dichloropropene	ND	U	802	9290	ug/Kg	10000	11/8/2012 19:40
1,2,3-Trichlorobenzene	ND	U	1020	9290	ug/Kg	10000	11/8/2012 19:40
1,2,3-Trichloropropane	ND	U	1970	9290	ug/Kg	10000	11/8/2012 19:40
1,2,4-Trichlorobenzene	ND	U	848	9290	ug/Kg	10000	11/8/2012 19:40
1,2,4-Trimethylbenzene	ND	U	893	9290	ug/Kg	10000	11/8/2012 19:40
1,2-Dibromo-3-chloropropane	ND	U	6950	46500	ug/Kg	10000	11/8/2012 19:40
1,2-Dibromoethane	ND	U	1110	9290	ug/Kg	10000	11/8/2012 19:40
1,2-Dichlorobenzene	ND	U	1270	9290	ug/Kg	10000	11/8/2012 19:40
1,2-Dichloroethane	ND	U	1550	9290	ug/Kg	10000	11/8/2012 19:40
1,2-Dichloropropane	ND	U	1510	9290	ug/Kg	10000	11/8/2012 19:40
1,3,5-Trimethylbenzene	ND	U	1050	9290	ug/Kg	10000	11/8/2012 19:40
1,3-Dichlorobenzene	ND	U	957	9290	ug/Kg	10000	11/8/2012 19:40
1,3-Dichloropropane	ND	U	1210	9290	ug/Kg	10000	11/8/2012 19:40
1,4-Dichlorobenzene	ND	U	1210	9290	ug/Kg	10000	11/8/2012 19:40
2,2-Dichloropropane	ND	U	3650	9290	ug/Kg	10000	11/8/2012 19:40
2-Butanone	ND	U	6720	232000	ug/Kg	10000	11/8/2012 19:40
2-Chlorotoluene	ND	U	1050	9290	ug/Kg	10000	11/8/2012 19:40
2-Hexanone	ND	U	6760	46500	ug/Kg	10000	11/8/2012 19:40
4-Chlorotoluene	ND	U	1160	9290	ug/Kg	10000	11/8/2012 19:40
4-Isopropyltoluene	ND	U	714	9290	ug/Kg	10000	11/8/2012 19:40
4-Methyl-2-pentanone	ND	U	5180	46500	ug/Kg	10000	11/8/2012 19:40
Acetone	ND	U	8030	232000	ug/Kg	10000	11/8/2012 19:40
Benzene	ND	U	1050	9290	ug/Kg	10000	11/8/2012 19:40
Bromobenzene	ND	U	1020	9290	ug/Kg	10000	11/8/2012 19:40
Bromochloromethane	ND	U	1960	9290	ug/Kg	10000	11/8/2012 19:40
Bromodichloromethane	ND	U	1020	9290	ug/Kg	10000	11/8/2012 19:40
Bromoform	ND	U	905	9290	ug/Kg	10000	11/8/2012 19:40
Bromomethane	ND	U	2200	9290	ug/Kg	10000	11/8/2012 19:40
n-Butylbenzene	ND	U	714	9290	ug/Kg	10000	11/8/2012 19:40
Carbon disulfide	ND	U	985	9290	ug/Kg	10000	11/8/2012 19:40
Carbon tetrachloride	ND	U	938	9290	ug/Kg	10000	11/8/2012 19:40
Chlorobenzene	ND	U	1080	9290	ug/Kg	10000	11/8/2012 19:40
Chloroethane	ND	U	2890	9290	ug/Kg	10000	11/8/2012 19:40
Chloroform	ND	U	1290	9290	ug/Kg	10000	11/8/2012 19:40
Chloromethane	ND	U	4160	9290	ug/Kg	10000	11/8/2012 19:40
Dibromochloromethane	ND	U	1240	9290	ug/Kg	10000	11/8/2012 19:40
Dibromomethane	ND	U	1560	9290	ug/Kg	10000	11/8/2012 19:40

Print Date: 11/28/2012

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Results of **SB42-5-6**

Client Sample ID: **SB42-5-6**
Client Project ID: **2012.0009**
Lab Sample ID: 31203610032-D
Lab Project ID: 31203610

Collection Date: 11/01/2012 12:20
Received Date: 11/02/2012 14:00
Matrix: Soil-Solid as dry weight
Solids (%): 80.90

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
Dichlorodifluoromethane	ND	U	1590	46500	ug/Kg	10000	11/8/2012 19:40
cis-1,3-Dichloropropene	ND	U	713	9290	ug/Kg	10000	11/8/2012 19:40
trans-1,3-Dichloropropene	ND	U	801	9290	ug/Kg	10000	11/8/2012 19:40
Diisopropyl Ether	ND	U	2730	9290	ug/Kg	10000	11/8/2012 19:40
Ethyl Benzene	ND	U	815	9290	ug/Kg	10000	11/8/2012 19:40
Hexachlorobutadiene	ND	U	736	9290	ug/Kg	10000	11/8/2012 19:40
Isopropylbenzene (Cumene)	ND	U	807	9290	ug/Kg	10000	11/8/2012 19:40
Methyl iodide	ND	U	1070	9290	ug/Kg	10000	11/8/2012 19:40
Methylene chloride	ND	U	1410	46500	ug/Kg	10000	11/8/2012 19:40
Naphthalene	ND	U	794	9290	ug/Kg	10000	11/8/2012 19:40
Styrene	ND	U	948	9290	ug/Kg	10000	11/8/2012 19:40
Tetrachloroethene	**226000**		1440	9290	ug/Kg	10000	11/8/2012 19:40
Toluene	ND	U	1240	9290	ug/Kg	10000	11/8/2012 19:40
Trichloroethene	**22700**		1160	9290	ug/Kg	10000	11/8/2012 19:40
Trichlorofluoromethane	ND	U	1270	9290	ug/Kg	10000	11/8/2012 19:40
Vinyl chloride	ND	U	1150	9290	ug/Kg	10000	11/8/2012 19:40
Xylene (total)	ND	U	1690	18600	ug/Kg	10000	11/8/2012 19:40
cis-1,2-Dichloroethene	**31800**		1260	9290	ug/Kg	10000	11/8/2012 19:40
m,p-Xylene	ND	U	1690	18600	ug/Kg	10000	11/8/2012 19:40
n-Propylbenzene	ND	U	1050	9290	ug/Kg	10000	11/8/2012 19:40
o-Xylene	ND	U	812	9290	ug/Kg	10000	11/8/2012 19:40
sec-Butylbenzene	ND	U	1040	9290	ug/Kg	10000	11/8/2012 19:40
tert-Butyl methyl ether (MTBE)	ND	U	1340	9290	ug/Kg	10000	11/8/2012 19:40
tert-Butylbenzene	ND	U	794	9290	ug/Kg	10000	11/8/2012 19:40
trans-1,2-Dichloroethene	ND	U	2070	9290	ug/Kg	10000	11/8/2012 19:40
trans-1,4-Dichloro-2-butene	ND	U	3850	46500	ug/Kg	10000	11/8/2012 19:40
Surrogates							
1,2-Dichloroethane-d4	101			55.0-173	%	10000	11/8/2012 19:40
4-Bromofluorobenzene	101			23.0-141	%	10000	11/8/2012 19:40
Toluene d8	99.0			57.0-134	%	10000	11/8/2012 19:40

Batch Information

Analytical Batch: **VMS2724**
Analytical Method: **SW-846 8260B**
Instrument: **MSD8**
Analyst: **DVO**

Prep Batch: **VXX4316**
Prep Method: **SW-846 5035 SM**
Prep Date/Time: **11/06/2012 12:17**
Prep Initial Wt./Vol.: **6.65 g**
Prep Extract Vol: **5 mL**

Print Date: 11/28/2012

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Results of **SB42-6-7**

Client Sample ID: **SB42-6-7**
Client Project ID: **2012.0009**
Lab Sample ID: 31203610033-D
Lab Project ID: 31203610

Collection Date: 11/01/2012 12:30
Received Date: 11/02/2012 14:00
Matrix: Soil-Solid as dry weight
Solids (%): 82.70

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	U	186	1790	ug/Kg	2000	11/8/2012 19:15
1,1,1-Trichloroethane	**6850**		220	1790	ug/Kg	2000	11/8/2012 19:15
1,1,2,2-Tetrachloroethane	ND	U	279	1790	ug/Kg	2000	11/8/2012 19:15
1,1,2-Trichloroethane	ND	U	225	1790	ug/Kg	2000	11/8/2012 19:15
1,1-Dichloroethane	**895**	J	295	1790	ug/Kg	2000	11/8/2012 19:15
1,1-Dichloroethene	**4460**		379	1790	ug/Kg	2000	11/8/2012 19:15
1,1-Dichloropropene	ND	U	154	1790	ug/Kg	2000	11/8/2012 19:15
1,2,3-Trichlorobenzene	ND	U	197	1790	ug/Kg	2000	11/8/2012 19:15
1,2,3-Trichloropropane	ND	U	379	1790	ug/Kg	2000	11/8/2012 19:15
1,2,4-Trichlorobenzene	ND	U	163	1790	ug/Kg	2000	11/8/2012 19:15
1,2,4-Trimethylbenzene	ND	U	172	1790	ug/Kg	2000	11/8/2012 19:15
1,2-Dibromo-3-chloropropane	ND	U	1340	8950	ug/Kg	2000	11/8/2012 19:15
1,2-Dibromoethane	ND	U	215	1790	ug/Kg	2000	11/8/2012 19:15
1,2-Dichlorobenzene	ND	U	245	1790	ug/Kg	2000	11/8/2012 19:15
1,2-Dichloroethane	ND	U	299	1790	ug/Kg	2000	11/8/2012 19:15
1,2-Dichloropropane	ND	U	292	1790	ug/Kg	2000	11/8/2012 19:15
1,3,5-Trimethylbenzene	ND	U	202	1790	ug/Kg	2000	11/8/2012 19:15
1,3-Dichlorobenzene	ND	U	184	1790	ug/Kg	2000	11/8/2012 19:15
1,3-Dichloropropane	ND	U	233	1790	ug/Kg	2000	11/8/2012 19:15
1,4-Dichlorobenzene	ND	U	233	1790	ug/Kg	2000	11/8/2012 19:15
2,2-Dichloropropane	ND	U	703	1790	ug/Kg	2000	11/8/2012 19:15
2-Butanone	ND	U	1290	44700	ug/Kg	2000	11/8/2012 19:15
2-Chlorotoluene	ND	U	202	1790	ug/Kg	2000	11/8/2012 19:15
2-Hexanone	ND	U	1300	8950	ug/Kg	2000	11/8/2012 19:15
4-Chlorotoluene	ND	U	224	1790	ug/Kg	2000	11/8/2012 19:15
4-Isopropyltoluene	ND	U	138	1790	ug/Kg	2000	11/8/2012 19:15
4-Methyl-2-pentanone	ND	U	999	8950	ug/Kg	2000	11/8/2012 19:15
Acetone	ND	U	1550	44700	ug/Kg	2000	11/8/2012 19:15
Benzene	ND	U	202	1790	ug/Kg	2000	11/8/2012 19:15
Bromobenzene	ND	U	197	1790	ug/Kg	2000	11/8/2012 19:15
Bromochloromethane	ND	U	378	1790	ug/Kg	2000	11/8/2012 19:15
Bromodichloromethane	ND	U	197	1790	ug/Kg	2000	11/8/2012 19:15
Bromoform	ND	U	174	1790	ug/Kg	2000	11/8/2012 19:15
Bromomethane	ND	U	424	1790	ug/Kg	2000	11/8/2012 19:15
n-Butylbenzene	ND	U	138	1790	ug/Kg	2000	11/8/2012 19:15
Carbon disulfide	ND	U	190	1790	ug/Kg	2000	11/8/2012 19:15
Carbon tetrachloride	ND	U	181	1790	ug/Kg	2000	11/8/2012 19:15
Chlorobenzene	ND	U	208	1790	ug/Kg	2000	11/8/2012 19:15
Chloroethane	ND	U	557	1790	ug/Kg	2000	11/8/2012 19:15
Chloroform	ND	U	249	1790	ug/Kg	2000	11/8/2012 19:15
Chloromethane	ND	U	802	1790	ug/Kg	2000	11/8/2012 19:15
Dibromochloromethane	ND	U	240	1790	ug/Kg	2000	11/8/2012 19:15
Dibromomethane	ND	U	301	1790	ug/Kg	2000	11/8/2012 19:15

Print Date: 11/28/2012

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Results of **SB42-6-7**

Client Sample ID: **SB42-6-7**
Client Project ID: **2012.0009**
Lab Sample ID: 31203610033-D
Lab Project ID: 31203610

Collection Date: 11/01/2012 12:30
Received Date: 11/02/2012 14:00
Matrix: Soil-Solid as dry weight
Solids (%): 82.70

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
Dichlorodifluoromethane	ND	U	306	8950	ug/Kg	2000	11/8/2012 19:15
cis-1,3-Dichloropropene	ND	U	137	1790	ug/Kg	2000	11/8/2012 19:15
trans-1,3-Dichloropropene	ND	U	154	1790	ug/Kg	2000	11/8/2012 19:15
Diisopropyl Ether	ND	U	526	1790	ug/Kg	2000	11/8/2012 19:15
Ethyl Benzene	ND	U	157	1790	ug/Kg	2000	11/8/2012 19:15
Hexachlorobutadiene	ND	U	142	1790	ug/Kg	2000	11/8/2012 19:15
Isopropylbenzene (Cumene)	ND	U	156	1790	ug/Kg	2000	11/8/2012 19:15
Methyl iodide	ND	U	206	1790	ug/Kg	2000	11/8/2012 19:15
Methylene chloride	ND	U	272	8950	ug/Kg	2000	11/8/2012 19:15
Naphthalene	ND	U	153	1790	ug/Kg	2000	11/8/2012 19:15
Styrene	ND	U	183	1790	ug/Kg	2000	11/8/2012 19:15
Tetrachloroethene	**39100**		277	1790	ug/Kg	2000	11/8/2012 19:15
Toluene	ND	U	238	1790	ug/Kg	2000	11/8/2012 19:15
Trichloroethene	**3970**		224	1790	ug/Kg	2000	11/8/2012 19:15
Trichlorofluoromethane	ND	U	245	1790	ug/Kg	2000	11/8/2012 19:15
Vinyl chloride	ND	U	222	1790	ug/Kg	2000	11/8/2012 19:15
Xylene (total)	ND	U	326	3580	ug/Kg	2000	11/8/2012 19:15
cis-1,2-Dichloroethene	**14000**		243	1790	ug/Kg	2000	11/8/2012 19:15
m,p-Xylene	ND	U	326	3580	ug/Kg	2000	11/8/2012 19:15
n-Propylbenzene	ND	U	202	1790	ug/Kg	2000	11/8/2012 19:15
o-Xylene	ND	U	156	1790	ug/Kg	2000	11/8/2012 19:15
sec-Butylbenzene	ND	U	200	1790	ug/Kg	2000	11/8/2012 19:15
tert-Butyl methyl ether (MTBE)	ND	U	258	1790	ug/Kg	2000	11/8/2012 19:15
tert-Butylbenzene	ND	U	153	1790	ug/Kg	2000	11/8/2012 19:15
trans-1,2-Dichloroethene	ND	U	399	1790	ug/Kg	2000	11/8/2012 19:15
trans-1,4-Dichloro-2-butene	ND	U	741	8950	ug/Kg	2000	11/8/2012 19:15
Surrogates							
1,2-Dichloroethane-d4	107			55.0-173	%	2000	11/8/2012 19:15
4-Bromofluorobenzene	101			23.0-141	%	2000	11/8/2012 19:15
Toluene d8	108			57.0-134	%	2000	11/8/2012 19:15

Batch Information

Analytical Batch: **VMS2724**
Analytical Method: **SW-846 8260B**
Instrument: **MSD8**
Analyst: **DVO**

Prep Batch: **VXX4316**
Prep Method: **SW-846 5035 SM**
Prep Date/Time: **11/06/2012 12:18**
Prep Initial Wt./Vol.: **6.76 g**
Prep Extract Vol: **5 mL**

Print Date: 11/28/2012

N.C. Certification # 481

Results of **SB42-7-8**

Client Sample ID: **SB42-7-8**
Client Project ID: **2012.0009**
Lab Sample ID: 31203610034-D
Lab Project ID: 31203610

Collection Date: 11/01/2012 12:35
Received Date: 11/02/2012 14:00
Matrix: Soil-Solid as dry weight
Solids (%): 83.10

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	U	140	1340	ug/Kg	1600	11/8/2012 18:51
1,1,1-Trichloroethane	**5850**		165	1340	ug/Kg	1600	11/8/2012 18:51
1,1,2,2-Tetrachloroethane	ND	U	210	1340	ug/Kg	1600	11/8/2012 18:51
1,1,2-Trichloroethane	ND	U	169	1340	ug/Kg	1600	11/8/2012 18:51
1,1-Dichloroethane	ND	U	222	1340	ug/Kg	1600	11/8/2012 18:51
1,1-Dichloroethene	**4150**		285	1340	ug/Kg	1600	11/8/2012 18:51
1,1-Dichloropropene	ND	U	116	1340	ug/Kg	1600	11/8/2012 18:51
1,2,3-Trichlorobenzene	ND	U	148	1340	ug/Kg	1600	11/8/2012 18:51
1,2,3-Trichloropropane	ND	U	285	1340	ug/Kg	1600	11/8/2012 18:51
1,2,4-Trichlorobenzene	ND	U	123	1340	ug/Kg	1600	11/8/2012 18:51
1,2,4-Trimethylbenzene	ND	U	129	1340	ug/Kg	1600	11/8/2012 18:51
1,2-Dibromo-3-chloropropane	ND	U	1010	6720	ug/Kg	1600	11/8/2012 18:51
1,2-Dibromoethane	ND	U	161	1340	ug/Kg	1600	11/8/2012 18:51
1,2-Dichlorobenzene	ND	U	184	1340	ug/Kg	1600	11/8/2012 18:51
1,2-Dichloroethane	ND	U	225	1340	ug/Kg	1600	11/8/2012 18:51
1,2-Dichloropropane	ND	U	219	1340	ug/Kg	1600	11/8/2012 18:51
1,3,5-Trimethylbenzene	ND	U	152	1340	ug/Kg	1600	11/8/2012 18:51
1,3-Dichlorobenzene	ND	U	138	1340	ug/Kg	1600	11/8/2012 18:51
1,3-Dichloropropane	ND	U	175	1340	ug/Kg	1600	11/8/2012 18:51
1,4-Dichlorobenzene	ND	U	175	1340	ug/Kg	1600	11/8/2012 18:51
2,2-Dichloropropane	ND	U	528	1340	ug/Kg	1600	11/8/2012 18:51
2-Butanone	ND	U	972	33600	ug/Kg	1600	11/8/2012 18:51
2-Chlorotoluene	ND	U	152	1340	ug/Kg	1600	11/8/2012 18:51
2-Hexanone	ND	U	979	6720	ug/Kg	1600	11/8/2012 18:51
4-Chlorotoluene	ND	U	168	1340	ug/Kg	1600	11/8/2012 18:51
4-Isopropyltoluene	ND	U	103	1340	ug/Kg	1600	11/8/2012 18:51
4-Methyl-2-pentanone	ND	U	750	6720	ug/Kg	1600	11/8/2012 18:51
Acetone	ND	U	1160	33600	ug/Kg	1600	11/8/2012 18:51
Benzene	ND	U	152	1340	ug/Kg	1600	11/8/2012 18:51
Bromobenzene	ND	U	148	1340	ug/Kg	1600	11/8/2012 18:51
Bromochloromethane	ND	U	284	1340	ug/Kg	1600	11/8/2012 18:51
Bromodichloromethane	ND	U	148	1340	ug/Kg	1600	11/8/2012 18:51
Bromoform	ND	U	131	1340	ug/Kg	1600	11/8/2012 18:51
Bromomethane	ND	U	319	1340	ug/Kg	1600	11/8/2012 18:51
n-Butylbenzene	ND	U	103	1340	ug/Kg	1600	11/8/2012 18:51
Carbon disulfide	ND	U	143	1340	ug/Kg	1600	11/8/2012 18:51
Carbon tetrachloride	ND	U	136	1340	ug/Kg	1600	11/8/2012 18:51
Chlorobenzene	ND	U	156	1340	ug/Kg	1600	11/8/2012 18:51
Chloroethane	ND	U	418	1340	ug/Kg	1600	11/8/2012 18:51
Chloroform	ND	U	187	1340	ug/Kg	1600	11/8/2012 18:51
Chloromethane	ND	U	602	1340	ug/Kg	1600	11/8/2012 18:51
Dibromochloromethane	ND	U	180	1340	ug/Kg	1600	11/8/2012 18:51
Dibromomethane	ND	U	226	1340	ug/Kg	1600	11/8/2012 18:51

Print Date: 11/28/2012

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Results of **SB42-7-8**

Client Sample ID: **SB42-7-8**
Client Project ID: **2012.0009**
Lab Sample ID: 31203610034-D
Lab Project ID: 31203610

Collection Date: 11/01/2012 12:35
Received Date: 11/02/2012 14:00
Matrix: Soil-Solid as dry weight
Solids (%): 83.10

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
Dichlorodifluoromethane	ND	U	230	6720	ug/Kg	1600	11/8/2012 18:51
cis-1,3-Dichloropropene	ND	U	103	1340	ug/Kg	1600	11/8/2012 18:51
trans-1,3-Dichloropropene	ND	U	116	1340	ug/Kg	1600	11/8/2012 18:51
Diisopropyl Ether	ND	U	395	1340	ug/Kg	1600	11/8/2012 18:51
Ethyl Benzene	ND	U	118	1340	ug/Kg	1600	11/8/2012 18:51
Hexachlorobutadiene	ND	U	106	1340	ug/Kg	1600	11/8/2012 18:51
Isopropylbenzene (Cumene)	ND	U	117	1340	ug/Kg	1600	11/8/2012 18:51
Methyl iodide	ND	U	155	1340	ug/Kg	1600	11/8/2012 18:51
Methylene chloride	ND	U	204	6720	ug/Kg	1600	11/8/2012 18:51
Naphthalene	ND	U	115	1340	ug/Kg	1600	11/8/2012 18:51
Styrene	ND	U	137	1340	ug/Kg	1600	11/8/2012 18:51
Tetrachloroethene	**34500**		208	1340	ug/Kg	1600	11/8/2012 18:51
Toluene	ND	U	179	1340	ug/Kg	1600	11/8/2012 18:51
Trichloroethene	**2080**		168	1340	ug/Kg	1600	11/8/2012 18:51
Trichlorofluoromethane	ND	U	184	1340	ug/Kg	1600	11/8/2012 18:51
Vinyl chloride	ND	U	167	1340	ug/Kg	1600	11/8/2012 18:51
Xylene (total)	ND	U	245	2690	ug/Kg	1600	11/8/2012 18:51
cis-1,2-Dichloroethene	**6620**		183	1340	ug/Kg	1600	11/8/2012 18:51
m,p-Xylene	ND	U	245	2690	ug/Kg	1600	11/8/2012 18:51
n-Propylbenzene	ND	U	152	1340	ug/Kg	1600	11/8/2012 18:51
o-Xylene	ND	U	118	1340	ug/Kg	1600	11/8/2012 18:51
sec-Butylbenzene	ND	U	151	1340	ug/Kg	1600	11/8/2012 18:51
tert-Butyl methyl ether (MTBE)	ND	U	194	1340	ug/Kg	1600	11/8/2012 18:51
tert-Butylbenzene	ND	U	115	1340	ug/Kg	1600	11/8/2012 18:51
trans-1,2-Dichloroethene	ND	U	300	1340	ug/Kg	1600	11/8/2012 18:51
trans-1,4-Dichloro-2-butene	ND	U	557	6720	ug/Kg	1600	11/8/2012 18:51
Surrogates							
1,2-Dichloroethane-d4	101			55.0-173	%	1600	11/8/2012 18:51
4-Bromofluorobenzene	99.0			23.0-141	%	1600	11/8/2012 18:51
Toluene d8	108			57.0-134	%	1600	11/8/2012 18:51

Batch Information

Analytical Batch: **VMS2724**
Analytical Method: **SW-846 8260B**
Instrument: **MSD8**
Analyst: **DVO**

Prep Batch: **VXX4316**
Prep Method: **SW-846 5035 SM**
Prep Date/Time: **11/06/2012 12:22**
Prep Initial Wt./Vol.: **7.16 g**
Prep Extract Vol: **5 mL**

Print Date: 11/28/2012

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Results of **SB43-0-1**

Client Sample ID: **SB43-0-1**
Client Project ID: **2012.0009**
Lab Sample ID: 31203610035-D
Lab Project ID: 31203610

Collection Date: 11/01/2012 13:00
Received Date: 11/02/2012 14:00
Matrix: Soil-Solid as dry weight
Solids (%): 95.10

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	U	5.60	53.9	ug/Kg	50	11/8/2012 16:48
1,1,1-Trichloroethane	ND	U	6.63	53.9	ug/Kg	50	11/8/2012 16:48
1,1,2,2-Tetrachloroethane	ND	U	8.40	53.9	ug/Kg	50	11/8/2012 16:48
1,1,2-Trichloroethane	ND	U	6.79	53.9	ug/Kg	50	11/8/2012 16:48
1,1-Dichloroethane	ND	U	8.89	53.9	ug/Kg	50	11/8/2012 16:48
1,1-Dichloroethene	ND	U	11.4	53.9	ug/Kg	50	11/8/2012 16:48
1,1-Dichloropropene	ND	U	4.65	53.9	ug/Kg	50	11/8/2012 16:48
1,2,3-Trichlorobenzene	ND	U	5.92	53.9	ug/Kg	50	11/8/2012 16:48
1,2,3-Trichloropropane	ND	U	11.4	53.9	ug/Kg	50	11/8/2012 16:48
1,2,4-Trichlorobenzene	ND	U	4.92	53.9	ug/Kg	50	11/8/2012 16:48
1,2,4-Trimethylbenzene	ND	U	5.18	53.9	ug/Kg	50	11/8/2012 16:48
1,2-Dibromo-3-chloropropane	ND	U	40.3	269	ug/Kg	50	11/8/2012 16:48
1,2-Dibromoethane	ND	U	6.46	53.9	ug/Kg	50	11/8/2012 16:48
1,2-Dichlorobenzene	ND	U	7.38	53.9	ug/Kg	50	11/8/2012 16:48
1,2-Dichloroethane	ND	U	8.99	53.9	ug/Kg	50	11/8/2012 16:48
1,2-Dichloropropane	ND	U	8.78	53.9	ug/Kg	50	11/8/2012 16:48
1,3,5-Trimethylbenzene	ND	U	6.09	53.9	ug/Kg	50	11/8/2012 16:48
1,3-Dichlorobenzene	ND	U	5.55	53.9	ug/Kg	50	11/8/2012 16:48
1,3-Dichloropropane	ND	U	7.00	53.9	ug/Kg	50	11/8/2012 16:48
1,4-Dichlorobenzene	ND	U	7.00	53.9	ug/Kg	50	11/8/2012 16:48
2,2-Dichloropropane	ND	U	21.2	53.9	ug/Kg	50	11/8/2012 16:48
2-Butanone	ND	U	38.9	1350	ug/Kg	50	11/8/2012 16:48
2-Chlorotoluene	ND	U	6.09	53.9	ug/Kg	50	11/8/2012 16:48
2-Hexanone	ND	U	39.2	269	ug/Kg	50	11/8/2012 16:48
4-Chlorotoluene	ND	U	6.73	53.9	ug/Kg	50	11/8/2012 16:48
4-Isopropyltoluene	ND	U	4.14	53.9	ug/Kg	50	11/8/2012 16:48
4-Methyl-2-pentanone	ND	U	30.1	269	ug/Kg	50	11/8/2012 16:48
Acetone	ND	U	46.5	1350	ug/Kg	50	11/8/2012 16:48
Benzene	ND	U	6.09	53.9	ug/Kg	50	11/8/2012 16:48
Bromobenzene	ND	U	5.92	53.9	ug/Kg	50	11/8/2012 16:48
Bromochloromethane	ND	U	11.4	53.9	ug/Kg	50	11/8/2012 16:48
Bromodichloromethane	ND	U	5.92	53.9	ug/Kg	50	11/8/2012 16:48
Bromoform	ND	U	5.25	53.9	ug/Kg	50	11/8/2012 16:48
Bromomethane	ND	U	12.8	53.9	ug/Kg	50	11/8/2012 16:48
n-Butylbenzene	ND	U	4.14	53.9	ug/Kg	50	11/8/2012 16:48
Carbon disulfide	ND	U	5.71	53.9	ug/Kg	50	11/8/2012 16:48
Carbon tetrachloride	ND	U	5.44	53.9	ug/Kg	50	11/8/2012 16:48
Chlorobenzene	ND	U	6.25	53.9	ug/Kg	50	11/8/2012 16:48
Chloroethane	ND	U	16.8	53.9	ug/Kg	50	11/8/2012 16:48
Chloroform	ND	U	7.49	53.9	ug/Kg	50	11/8/2012 16:48
Chloromethane	ND	U	24.1	53.9	ug/Kg	50	11/8/2012 16:48
Dibromochloromethane	ND	U	7.22	53.9	ug/Kg	50	11/8/2012 16:48
Dibromomethane	ND	U	9.05	53.9	ug/Kg	50	11/8/2012 16:48

Print Date: 11/28/2012

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Results of **SB43-0-1**

Client Sample ID: **SB43-0-1**
Client Project ID: **2012.0009**
Lab Sample ID: 31203610035-D
Lab Project ID: 31203610

Collection Date: 11/01/2012 13:00
Received Date: 11/02/2012 14:00
Matrix: Soil-Solid as dry weight
Solids (%): 95.10

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
Dichlorodifluoromethane	ND	U	9.21	269	ug/Kg	50	11/8/2012 16:48
cis-1,3-Dichloropropene	ND	U	4.13	53.9	ug/Kg	50	11/8/2012 16:48
trans-1,3-Dichloropropene	ND	U	4.64	53.9	ug/Kg	50	11/8/2012 16:48
Diisopropyl Ether	ND	U	15.8	53.9	ug/Kg	50	11/8/2012 16:48
Ethyl Benzene	ND	U	4.72	53.9	ug/Kg	50	11/8/2012 16:48
Hexachlorobutadiene	ND	U	4.27	53.9	ug/Kg	50	11/8/2012 16:48
Isopropylbenzene (Cumene)	ND	U	4.68	53.9	ug/Kg	50	11/8/2012 16:48
Methyl iodide	ND	U	6.19	53.9	ug/Kg	50	11/8/2012 16:48
Methylene chloride	ND	U	8.19	269	ug/Kg	50	11/8/2012 16:48
Naphthalene	ND	U	4.61	53.9	ug/Kg	50	11/8/2012 16:48
Styrene	ND	U	5.49	53.9	ug/Kg	50	11/8/2012 16:48
Tetrachloroethene	**434**		8.35	53.9	ug/Kg	50	11/8/2012 16:48
Toluene	ND	U	7.16	53.9	ug/Kg	50	11/8/2012 16:48
Trichloroethene	**11.3**	J	6.73	53.9	ug/Kg	50	11/8/2012 16:48
Trichlorofluoromethane	ND	U	7.38	53.9	ug/Kg	50	11/8/2012 16:48
Vinyl chloride	ND	U	6.68	53.9	ug/Kg	50	11/8/2012 16:48
Xylene (total)	ND	U	9.80	108	ug/Kg	50	11/8/2012 16:48
cis-1,2-Dichloroethene	ND	U	7.33	53.9	ug/Kg	50	11/8/2012 16:48
m,p-Xylene	ND	U	9.80	108	ug/Kg	50	11/8/2012 16:48
n-Propylbenzene	ND	U	6.09	53.9	ug/Kg	50	11/8/2012 16:48
o-Xylene	ND	U	4.71	53.9	ug/Kg	50	11/8/2012 16:48
sec-Butylbenzene	ND	U	6.03	53.9	ug/Kg	50	11/8/2012 16:48
tert-Butyl methyl ether (MTBE)	ND	U	7.76	53.9	ug/Kg	50	11/8/2012 16:48
tert-Butylbenzene	ND	U	4.61	53.9	ug/Kg	50	11/8/2012 16:48
trans-1,2-Dichloroethene	ND	U	12.0	53.9	ug/Kg	50	11/8/2012 16:48
trans-1,4-Dichloro-2-butene	ND	U	22.3	269	ug/Kg	50	11/8/2012 16:48
Surrogates							
1,2-Dichloroethane-d4	99.0			55.0-173	%	50	11/8/2012 16:48
4-Bromofluorobenzene	98.0			23.0-141	%	50	11/8/2012 16:48
Toluene d8	100			57.0-134	%	50	11/8/2012 16:48

Batch Information

Analytical Batch: **VMS2724**
Analytical Method: **SW-846 8260B**
Instrument: **MSD8**
Analyst: **DVO**

Prep Batch: **VXX4316**
Prep Method: **SW-846 5035 SM**
Prep Date/Time: **11/06/2012 12:25**
Prep Initial Wt./Vol.: **4.88 g**
Prep Extract Vol: **5 mL**

Print Date: 11/28/2012

N.C. Certification # 481

Results of **SB43-1-2**

Client Sample ID: **SB43-1-2**
Client Project ID: **2012.0009**
Lab Sample ID: 31203610036-D
Lab Project ID: 31203610

Collection Date: 11/01/2012 13:05
Received Date: 11/02/2012 14:00
Matrix: Soil-Solid as dry weight
Solids (%): 92.40

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	U	5.10	49.0	ug/Kg	50	11/8/2012 17:13
1,1,1-Trichloroethane	ND	U	6.03	49.0	ug/Kg	50	11/8/2012 17:13
1,1,2,2-Tetrachloroethane	ND	U	7.65	49.0	ug/Kg	50	11/8/2012 17:13
1,1,2-Trichloroethane	ND	U	6.18	49.0	ug/Kg	50	11/8/2012 17:13
1,1-Dichloroethane	ND	U	8.09	49.0	ug/Kg	50	11/8/2012 17:13
1,1-Dichloroethene	ND	U	10.4	49.0	ug/Kg	50	11/8/2012 17:13
1,1-Dichloropropene	ND	U	4.23	49.0	ug/Kg	50	11/8/2012 17:13
1,2,3-Trichlorobenzene	ND	U	5.39	49.0	ug/Kg	50	11/8/2012 17:13
1,2,3-Trichloropropane	ND	U	10.4	49.0	ug/Kg	50	11/8/2012 17:13
1,2,4-Trichlorobenzene	ND	U	4.48	49.0	ug/Kg	50	11/8/2012 17:13
1,2,4-Trimethylbenzene	ND	U	4.71	49.0	ug/Kg	50	11/8/2012 17:13
1,2-Dibromo-3-chloropropane	ND	U	36.7	245	ug/Kg	50	11/8/2012 17:13
1,2-Dibromoethane	ND	U	5.88	49.0	ug/Kg	50	11/8/2012 17:13
1,2-Dichlorobenzene	ND	U	6.72	49.0	ug/Kg	50	11/8/2012 17:13
1,2-Dichloroethane	ND	U	8.19	49.0	ug/Kg	50	11/8/2012 17:13
1,2-Dichloropropane	ND	U	7.99	49.0	ug/Kg	50	11/8/2012 17:13
1,3,5-Trimethylbenzene	ND	U	5.54	49.0	ug/Kg	50	11/8/2012 17:13
1,3-Dichlorobenzene	ND	U	5.05	49.0	ug/Kg	50	11/8/2012 17:13
1,3-Dichloropropane	ND	U	6.37	49.0	ug/Kg	50	11/8/2012 17:13
1,4-Dichlorobenzene	ND	U	6.37	49.0	ug/Kg	50	11/8/2012 17:13
2,2-Dichloropropane	ND	U	19.3	49.0	ug/Kg	50	11/8/2012 17:13
2-Butanone	ND	U	35.4	1230	ug/Kg	50	11/8/2012 17:13
2-Chlorotoluene	ND	U	5.54	49.0	ug/Kg	50	11/8/2012 17:13
2-Hexanone	ND	U	35.7	245	ug/Kg	50	11/8/2012 17:13
4-Chlorotoluene	ND	U	6.13	49.0	ug/Kg	50	11/8/2012 17:13
4-Isopropyltoluene	ND	U	3.77	49.0	ug/Kg	50	11/8/2012 17:13
4-Methyl-2-pentanone	ND	U	27.4	245	ug/Kg	50	11/8/2012 17:13
Acetone	ND	U	42.4	1230	ug/Kg	50	11/8/2012 17:13
Benzene	ND	U	5.54	49.0	ug/Kg	50	11/8/2012 17:13
Bromobenzene	ND	U	5.39	49.0	ug/Kg	50	11/8/2012 17:13
Bromochloromethane	ND	U	10.3	49.0	ug/Kg	50	11/8/2012 17:13
Bromodichloromethane	ND	U	5.39	49.0	ug/Kg	50	11/8/2012 17:13
Bromoform	ND	U	4.77	49.0	ug/Kg	50	11/8/2012 17:13
Bromomethane	ND	U	11.6	49.0	ug/Kg	50	11/8/2012 17:13
n-Butylbenzene	ND	U	3.77	49.0	ug/Kg	50	11/8/2012 17:13
Carbon disulfide	ND	U	5.20	49.0	ug/Kg	50	11/8/2012 17:13
Carbon tetrachloride	ND	U	4.95	49.0	ug/Kg	50	11/8/2012 17:13
Chlorobenzene	ND	U	5.69	49.0	ug/Kg	50	11/8/2012 17:13
Chloroethane	ND	U	15.2	49.0	ug/Kg	50	11/8/2012 17:13
Chloroform	ND	U	6.81	49.0	ug/Kg	50	11/8/2012 17:13
Chloromethane	ND	U	22.0	49.0	ug/Kg	50	11/8/2012 17:13
Dibromochloromethane	ND	U	6.57	49.0	ug/Kg	50	11/8/2012 17:13
Dibromomethane	ND	U	8.24	49.0	ug/Kg	50	11/8/2012 17:13

Print Date: 11/28/2012

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Results of **SB43-1-2**

Client Sample ID: **SB43-1-2**
Client Project ID: **2012.0009**
Lab Sample ID: 31203610036-D
Lab Project ID: 31203610

Collection Date: 11/01/2012 13:05
Received Date: 11/02/2012 14:00
Matrix: Soil-Solid as dry weight
Solids (%): 92.40

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
Dichlorodifluoromethane	ND	U	8.38	245	ug/Kg	50	11/8/2012 17:13
cis-1,3-Dichloropropene	ND	U	3.76	49.0	ug/Kg	50	11/8/2012 17:13
trans-1,3-Dichloropropene	ND	U	4.23	49.0	ug/Kg	50	11/8/2012 17:13
Diisopropyl Ether	ND	U	14.4	49.0	ug/Kg	50	11/8/2012 17:13
Ethyl Benzene	ND	U	4.30	49.0	ug/Kg	50	11/8/2012 17:13
Hexachlorobutadiene	ND	U	3.88	49.0	ug/Kg	50	11/8/2012 17:13
Isopropylbenzene (Cumene)	ND	U	4.26	49.0	ug/Kg	50	11/8/2012 17:13
Methyl iodide	ND	U	5.64	49.0	ug/Kg	50	11/8/2012 17:13
Methylene chloride	ND	U	7.45	245	ug/Kg	50	11/8/2012 17:13
Naphthalene	ND	U	4.19	49.0	ug/Kg	50	11/8/2012 17:13
Styrene	ND	U	5.00	49.0	ug/Kg	50	11/8/2012 17:13
Tetrachloroethene	**696**		7.60	49.0	ug/Kg	50	11/8/2012 17:13
Toluene	ND	U	6.52	49.0	ug/Kg	50	11/8/2012 17:13
Trichloroethene	**29.4**	J	6.13	49.0	ug/Kg	50	11/8/2012 17:13
Trichlorofluoromethane	ND	U	6.72	49.0	ug/Kg	50	11/8/2012 17:13
Vinyl chloride	ND	U	6.08	49.0	ug/Kg	50	11/8/2012 17:13
Xylene (total)	ND	U	8.92	98.0	ug/Kg	50	11/8/2012 17:13
cis-1,2-Dichloroethene	ND	U	6.67	49.0	ug/Kg	50	11/8/2012 17:13
m,p-Xylene	ND	U	8.92	98.0	ug/Kg	50	11/8/2012 17:13
n-Propylbenzene	ND	U	5.54	49.0	ug/Kg	50	11/8/2012 17:13
o-Xylene	ND	U	4.28	49.0	ug/Kg	50	11/8/2012 17:13
sec-Butylbenzene	ND	U	5.49	49.0	ug/Kg	50	11/8/2012 17:13
tert-Butyl methyl ether (MTBE)	ND	U	7.06	49.0	ug/Kg	50	11/8/2012 17:13
tert-Butylbenzene	ND	U	4.19	49.0	ug/Kg	50	11/8/2012 17:13
trans-1,2-Dichloroethene	ND	U	10.9	49.0	ug/Kg	50	11/8/2012 17:13
trans-1,4-Dichloro-2-butene	ND	U	20.3	245	ug/Kg	50	11/8/2012 17:13
Surrogates							
1,2-Dichloroethane-d4	107			55.0-173	%	50	11/8/2012 17:13
4-Bromofluorobenzene	101			23.0-141	%	50	11/8/2012 17:13
Toluene d8	106			57.0-134	%	50	11/8/2012 17:13

Batch Information

Analytical Batch: **VMS2724**
Analytical Method: **SW-846 8260B**
Instrument: **MSD8**
Analyst: **DVO**

Prep Batch: **VXX4316**
Prep Method: **SW-846 5035 SM**
Prep Date/Time: **11/06/2012 12:26**
Prep Initial Wt./Vol.: **5.52 g**
Prep Extract Vol: **5 mL**

Print Date: 11/28/2012

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Results of **SB43-2-3**

Client Sample ID: **SB43-2-3**
Client Project ID: **2012.0009**
Lab Sample ID: 31203610037-D
Lab Project ID: 31203610

Collection Date: 11/01/2012 13:15
Received Date: 11/02/2012 14:00
Matrix: Soil-Solid as dry weight
Solids (%): 91.30

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	U	9.85	94.7	ug/Kg	100	11/9/2012 14:44
1,1,1-Trichloroethane	ND	U	11.7	94.7	ug/Kg	100	11/9/2012 14:44
1,1,2,2-Tetrachloroethane	ND	U	14.8	94.7	ug/Kg	100	11/9/2012 14:44
1,1,2-Trichloroethane	ND	U	11.9	94.7	ug/Kg	100	11/9/2012 14:44
1,1-Dichloroethane	ND	U	15.6	94.7	ug/Kg	100	11/9/2012 14:44
1,1-Dichloroethene	ND	U	20.1	94.7	ug/Kg	100	11/9/2012 14:44
1,1-Dichloropropene	ND	U	8.18	94.7	ug/Kg	100	11/9/2012 14:44
1,2,3-Trichlorobenzene	ND	U	10.4	94.7	ug/Kg	100	11/9/2012 14:44
1,2,3-Trichloropropane	ND	U	20.1	94.7	ug/Kg	100	11/9/2012 14:44
1,2,4-Trichlorobenzene	ND	U	8.65	94.7	ug/Kg	100	11/9/2012 14:44
1,2,4-Trimethylbenzene	ND	U	9.10	94.7	ug/Kg	100	11/9/2012 14:44
1,2-Dibromo-3-chloropropane	ND	U	70.9	474	ug/Kg	100	11/9/2012 14:44
1,2-Dibromoethane	ND	U	11.4	94.7	ug/Kg	100	11/9/2012 14:44
1,2-Dichlorobenzene	ND	U	13.0	94.7	ug/Kg	100	11/9/2012 14:44
1,2-Dichloroethane	ND	U	15.8	94.7	ug/Kg	100	11/9/2012 14:44
1,2-Dichloropropane	ND	U	15.4	94.7	ug/Kg	100	11/9/2012 14:44
1,3,5-Trimethylbenzene	ND	U	10.7	94.7	ug/Kg	100	11/9/2012 14:44
1,3-Dichlorobenzene	ND	U	9.76	94.7	ug/Kg	100	11/9/2012 14:44
1,3-Dichloropropane	ND	U	12.3	94.7	ug/Kg	100	11/9/2012 14:44
1,4-Dichlorobenzene	ND	U	12.3	94.7	ug/Kg	100	11/9/2012 14:44
2,2-Dichloropropane	ND	U	37.2	94.7	ug/Kg	100	11/9/2012 14:44
2-Butanone	ND	U	68.5	2370	ug/Kg	100	11/9/2012 14:44
2-Chlorotoluene	ND	U	10.7	94.7	ug/Kg	100	11/9/2012 14:44
2-Hexanone	ND	U	69.0	474	ug/Kg	100	11/9/2012 14:44
4-Chlorotoluene	ND	U	11.8	94.7	ug/Kg	100	11/9/2012 14:44
4-Isopropyltoluene	ND	U	7.29	94.7	ug/Kg	100	11/9/2012 14:44
4-Methyl-2-pentanone	ND	U	52.9	474	ug/Kg	100	11/9/2012 14:44
Acetone	ND	U	81.9	2370	ug/Kg	100	11/9/2012 14:44
Benzene	ND	U	10.7	94.7	ug/Kg	100	11/9/2012 14:44
Bromobenzene	ND	U	10.4	94.7	ug/Kg	100	11/9/2012 14:44
Bromochloromethane	ND	U	20.0	94.7	ug/Kg	100	11/9/2012 14:44
Bromodichloromethane	ND	U	10.4	94.7	ug/Kg	100	11/9/2012 14:44
Bromoform	ND	U	9.23	94.7	ug/Kg	100	11/9/2012 14:44
Bromomethane	ND	U	22.5	94.7	ug/Kg	100	11/9/2012 14:44
n-Butylbenzene	ND	U	7.29	94.7	ug/Kg	100	11/9/2012 14:44
Carbon disulfide	ND	U	10.0	94.7	ug/Kg	100	11/9/2012 14:44
Carbon tetrachloride	ND	U	9.57	94.7	ug/Kg	100	11/9/2012 14:44
Chlorobenzene	ND	U	11.0	94.7	ug/Kg	100	11/9/2012 14:44
Chloroethane	ND	U	29.5	94.7	ug/Kg	100	11/9/2012 14:44
Chloroform	ND	U	13.2	94.7	ug/Kg	100	11/9/2012 14:44
Chloromethane	ND	U	42.4	94.7	ug/Kg	100	11/9/2012 14:44
Dibromochloromethane	ND	U	12.7	94.7	ug/Kg	100	11/9/2012 14:44
Dibromomethane	ND	U	15.9	94.7	ug/Kg	100	11/9/2012 14:44

Print Date: 11/28/2012

N.C. Certification # 481

Results of **SB43-2-3**

Client Sample ID: **SB43-2-3**
Client Project ID: **2012.0009**
Lab Sample ID: 31203610037-D
Lab Project ID: 31203610

Collection Date: 11/01/2012 13:15
Received Date: 11/02/2012 14:00
Matrix: Soil-Solid as dry weight
Solids (%): 91.30

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
Dichlorodifluoromethane	ND	U	16.2	474	ug/Kg	100	11/9/2012 14:44
cis-1,3-Dichloropropene	ND	U	7.27	94.7	ug/Kg	100	11/9/2012 14:44
trans-1,3-Dichloropropene	ND	U	8.17	94.7	ug/Kg	100	11/9/2012 14:44
Diisopropyl Ether	ND	U	27.9	94.7	ug/Kg	100	11/9/2012 14:44
Ethyl Benzene	ND	U	8.31	94.7	ug/Kg	100	11/9/2012 14:44
Hexachlorobutadiene	ND	U	7.50	94.7	ug/Kg	100	11/9/2012 14:44
Isopropylbenzene (Cumene)	ND	U	8.23	94.7	ug/Kg	100	11/9/2012 14:44
Methyl iodide	ND	U	10.9	94.7	ug/Kg	100	11/9/2012 14:44
Methylene chloride	ND	U	14.4	474	ug/Kg	100	11/9/2012 14:44
Naphthalene	ND	U	8.10	94.7	ug/Kg	100	11/9/2012 14:44
Styrene	ND	U	9.66	94.7	ug/Kg	100	11/9/2012 14:44
Tetrachloroethene	**1460**		14.7	94.7	ug/Kg	100	11/9/2012 14:44
Toluene	ND	U	12.6	94.7	ug/Kg	100	11/9/2012 14:44
Trichloroethene	**55.9**	J	11.8	94.7	ug/Kg	100	11/9/2012 14:44
Trichlorofluoromethane	ND	U	13.0	94.7	ug/Kg	100	11/9/2012 14:44
Vinyl chloride	ND	U	11.7	94.7	ug/Kg	100	11/9/2012 14:44
Xylene (total)	ND	U	17.2	189	ug/Kg	100	11/9/2012 14:44
cis-1,2-Dichloroethene	ND	U	12.9	94.7	ug/Kg	100	11/9/2012 14:44
m,p-Xylene	ND	U	17.2	189	ug/Kg	100	11/9/2012 14:44
n-Propylbenzene	ND	U	10.7	94.7	ug/Kg	100	11/9/2012 14:44
o-Xylene	ND	U	8.28	94.7	ug/Kg	100	11/9/2012 14:44
sec-Butylbenzene	ND	U	10.6	94.7	ug/Kg	100	11/9/2012 14:44
tert-Butyl methyl ether (MTBE)	ND	U	13.6	94.7	ug/Kg	100	11/9/2012 14:44
tert-Butylbenzene	ND	U	8.10	94.7	ug/Kg	100	11/9/2012 14:44
trans-1,2-Dichloroethene	ND	U	21.1	94.7	ug/Kg	100	11/9/2012 14:44
trans-1,4-Dichloro-2-butene	ND	U	39.2	474	ug/Kg	100	11/9/2012 14:44
Surrogates							
1,2-Dichloroethane-d4	103			55.0-173	%	100	11/9/2012 14:44
4-Bromofluorobenzene	101			23.0-141	%	100	11/9/2012 14:44
Toluene d8	101			57.0-134	%	100	11/9/2012 14:44

Batch Information

Analytical Batch: **VMS2728**
Analytical Method: **SW-846 8260B**
Instrument: **MSD8**
Analyst: **DVO**

Prep Batch: **VXX4327**
Prep Method: **SW-846 5035 SM**
Prep Date/Time: **11/06/2012 12:28**
Prep Initial Wt./Vol.: **5.78 g**
Prep Extract Vol: **5 mL**

Print Date: 11/28/2012

N.C. Certification # 481

Results of **SB43-3-4**

Client Sample ID: **SB43-3-4**
Client Project ID: **2012.0009**
Lab Sample ID: 31203610038-D
Lab Project ID: 31203610

Collection Date: 11/01/2012 13:25
Received Date: 11/02/2012 14:00
Matrix: Soil-Solid as dry weight
Solids (%): 93.30

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	U	21.9	211	ug/Kg	250	11/9/2012 15:34
1,1,1-Trichloroethane	ND	U	26.0	211	ug/Kg	250	11/9/2012 15:34
1,1,2,2-Tetrachloroethane	ND	U	32.9	211	ug/Kg	250	11/9/2012 15:34
1,1,2-Trichloroethane	ND	U	26.6	211	ug/Kg	250	11/9/2012 15:34
1,1-Dichloroethane	ND	U	34.8	211	ug/Kg	250	11/9/2012 15:34
1,1-Dichloroethene	ND	U	44.7	211	ug/Kg	250	11/9/2012 15:34
1,1-Dichloropropene	ND	U	18.2	211	ug/Kg	250	11/9/2012 15:34
1,2,3-Trichlorobenzene	ND	U	23.2	211	ug/Kg	250	11/9/2012 15:34
1,2,3-Trichloropropane	ND	U	44.7	211	ug/Kg	250	11/9/2012 15:34
1,2,4-Trichlorobenzene	ND	U	19.3	211	ug/Kg	250	11/9/2012 15:34
1,2,4-Trimethylbenzene	ND	U	20.3	211	ug/Kg	250	11/9/2012 15:34
1,2-Dibromo-3-chloropropane	ND	U	158	1050	ug/Kg	250	11/9/2012 15:34
1,2-Dibromoethane	ND	U	25.3	211	ug/Kg	250	11/9/2012 15:34
1,2-Dichlorobenzene	ND	U	28.9	211	ug/Kg	250	11/9/2012 15:34
1,2-Dichloroethane	ND	U	35.2	211	ug/Kg	250	11/9/2012 15:34
1,2-Dichloropropane	ND	U	34.4	211	ug/Kg	250	11/9/2012 15:34
1,3,5-Trimethylbenzene	ND	U	23.8	211	ug/Kg	250	11/9/2012 15:34
1,3-Dichlorobenzene	ND	U	21.7	211	ug/Kg	250	11/9/2012 15:34
1,3-Dichloropropane	ND	U	27.4	211	ug/Kg	250	11/9/2012 15:34
1,4-Dichlorobenzene	ND	U	27.4	211	ug/Kg	250	11/9/2012 15:34
2,2-Dichloropropane	ND	U	82.9	211	ug/Kg	250	11/9/2012 15:34
2-Butanone	ND	U	153	5270	ug/Kg	250	11/9/2012 15:34
2-Chlorotoluene	ND	U	23.8	211	ug/Kg	250	11/9/2012 15:34
2-Hexanone	ND	U	154	1050	ug/Kg	250	11/9/2012 15:34
4-Chlorotoluene	ND	U	26.4	211	ug/Kg	250	11/9/2012 15:34
4-Isopropyltoluene	ND	U	16.2	211	ug/Kg	250	11/9/2012 15:34
4-Methyl-2-pentanone	ND	U	118	1050	ug/Kg	250	11/9/2012 15:34
Acetone	ND	U	182	5270	ug/Kg	250	11/9/2012 15:34
Benzene	ND	U	23.8	211	ug/Kg	250	11/9/2012 15:34
Bromobenzene	ND	U	23.2	211	ug/Kg	250	11/9/2012 15:34
Bromochloromethane	ND	U	44.5	211	ug/Kg	250	11/9/2012 15:34
Bromodichloromethane	ND	U	23.2	211	ug/Kg	250	11/9/2012 15:34
Bromoform	ND	U	20.5	211	ug/Kg	250	11/9/2012 15:34
Bromomethane	ND	U	50.0	211	ug/Kg	250	11/9/2012 15:34
n-Butylbenzene	ND	U	16.2	211	ug/Kg	250	11/9/2012 15:34
Carbon disulfide	ND	U	22.4	211	ug/Kg	250	11/9/2012 15:34
Carbon tetrachloride	ND	U	21.3	211	ug/Kg	250	11/9/2012 15:34
Chlorobenzene	ND	U	24.5	211	ug/Kg	250	11/9/2012 15:34
Chloroethane	ND	U	65.6	211	ug/Kg	250	11/9/2012 15:34
Chloroform	ND	U	29.3	211	ug/Kg	250	11/9/2012 15:34
Chloromethane	ND	U	94.5	211	ug/Kg	250	11/9/2012 15:34
Dibromochloromethane	ND	U	28.3	211	ug/Kg	250	11/9/2012 15:34
Dibromomethane	ND	U	35.4	211	ug/Kg	250	11/9/2012 15:34

Print Date: 11/28/2012

N.C. Certification # 481

Results of **SB43-3-4**

Client Sample ID: **SB43-3-4**
Client Project ID: **2012.0009**
Lab Sample ID: 31203610038-D
Lab Project ID: 31203610

Collection Date: 11/01/2012 13:25
Received Date: 11/02/2012 14:00
Matrix: Soil-Solid as dry weight
Solids (%): 93.30

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
Dichlorodifluoromethane	ND	U	36.1	1050	ug/Kg	250	11/9/2012 15:34
cis-1,3-Dichloropropene	ND	U	16.2	211	ug/Kg	250	11/9/2012 15:34
trans-1,3-Dichloropropene	ND	U	18.2	211	ug/Kg	250	11/9/2012 15:34
Diisopropyl Ether	ND	U	62.0	211	ug/Kg	250	11/9/2012 15:34
Ethyl Benzene	ND	U	18.5	211	ug/Kg	250	11/9/2012 15:34
Hexachlorobutadiene	ND	U	16.7	211	ug/Kg	250	11/9/2012 15:34
Isopropylbenzene (Cumene)	ND	U	18.3	211	ug/Kg	250	11/9/2012 15:34
Methyl iodide	ND	U	24.3	211	ug/Kg	250	11/9/2012 15:34
Methylene chloride	ND	U	32.1	1050	ug/Kg	250	11/9/2012 15:34
Naphthalene	ND	U	18.0	211	ug/Kg	250	11/9/2012 15:34
Styrene	ND	U	21.5	211	ug/Kg	250	11/9/2012 15:34
Tetrachloroethene	**6820**		32.7	211	ug/Kg	250	11/9/2012 15:34
Toluene	ND	U	28.1	211	ug/Kg	250	11/9/2012 15:34
Trichloroethene	**266**		26.4	211	ug/Kg	250	11/9/2012 15:34
Trichlorofluoromethane	ND	U	28.9	211	ug/Kg	250	11/9/2012 15:34
Vinyl chloride	ND	U	26.2	211	ug/Kg	250	11/9/2012 15:34
Xylene (total)	ND	U	38.4	422	ug/Kg	250	11/9/2012 15:34
cis-1,2-Dichloroethene	ND	U	28.7	211	ug/Kg	250	11/9/2012 15:34
m,p-Xylene	ND	U	38.4	422	ug/Kg	250	11/9/2012 15:34
n-Propylbenzene	ND	U	23.8	211	ug/Kg	250	11/9/2012 15:34
o-Xylene	ND	U	18.4	211	ug/Kg	250	11/9/2012 15:34
sec-Butylbenzene	ND	U	23.6	211	ug/Kg	250	11/9/2012 15:34
tert-Butyl methyl ether (MTBE)	ND	U	30.4	211	ug/Kg	250	11/9/2012 15:34
tert-Butylbenzene	ND	U	18.0	211	ug/Kg	250	11/9/2012 15:34
trans-1,2-Dichloroethene	ND	U	47.0	211	ug/Kg	250	11/9/2012 15:34
trans-1,4-Dichloro-2-butene	ND	U	87.3	1050	ug/Kg	250	11/9/2012 15:34
Surrogates							
1,2-Dichloroethane-d4	107			55.0-173	%	250	11/9/2012 15:34
4-Bromofluorobenzene	102			23.0-141	%	250	11/9/2012 15:34
Toluene d8	106			57.0-134	%	250	11/9/2012 15:34

Batch Information

Analytical Batch: **VMS2728**
Analytical Method: **SW-846 8260B**
Instrument: **MSD8**
Analyst: **DVO**

Prep Batch: **VXX4327**
Prep Method: **SW-846 5035 SM**
Prep Date/Time: **11/06/2012 12:29**
Prep Initial Wt./Vol.: **6.35 g**
Prep Extract Vol: **5 mL**

Print Date: 11/28/2012

N.C. Certification # 481

Results of **SB43-4-5**

Client Sample ID: **SB43-4-5**
Client Project ID: **2012.0009**
Lab Sample ID: 31203610039-D
Lab Project ID: 31203610

Collection Date: 11/01/2012 13:35
Received Date: 11/02/2012 14:00
Matrix: Soil-Solid as dry weight
Solids (%): 82.60

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	U	72.0	692	ug/Kg	800	11/9/2012 16:23
1,1,1-Trichloroethane	ND	U	85.1	692	ug/Kg	800	11/9/2012 16:23
1,1,2,2-Tetrachloroethane	ND	U	108	692	ug/Kg	800	11/9/2012 16:23
1,1,2-Trichloroethane	ND	U	87.2	692	ug/Kg	800	11/9/2012 16:23
1,1-Dichloroethane	ND	U	114	692	ug/Kg	800	11/9/2012 16:23
1,1-Dichloroethene	ND	U	147	692	ug/Kg	800	11/9/2012 16:23
1,1-Dichloropropene	ND	U	59.7	692	ug/Kg	800	11/9/2012 16:23
1,2,3-Trichlorobenzene	ND	U	76.1	692	ug/Kg	800	11/9/2012 16:23
1,2,3-Trichloropropane	ND	U	147	692	ug/Kg	800	11/9/2012 16:23
1,2,4-Trichlorobenzene	ND	U	63.2	692	ug/Kg	800	11/9/2012 16:23
1,2,4-Trimethylbenzene	ND	U	66.5	692	ug/Kg	800	11/9/2012 16:23
1,2-Dibromo-3-chloropropane	ND	U	518	3460	ug/Kg	800	11/9/2012 16:23
1,2-Dibromoethane	ND	U	83.1	692	ug/Kg	800	11/9/2012 16:23
1,2-Dichlorobenzene	ND	U	94.8	692	ug/Kg	800	11/9/2012 16:23
1,2-Dichloroethane	ND	U	116	692	ug/Kg	800	11/9/2012 16:23
1,2-Dichloropropane	ND	U	113	692	ug/Kg	800	11/9/2012 16:23
1,3,5-Trimethylbenzene	ND	U	78.2	692	ug/Kg	800	11/9/2012 16:23
1,3-Dichlorobenzene	ND	U	71.3	692	ug/Kg	800	11/9/2012 16:23
1,3-Dichloropropane	ND	U	90.0	692	ug/Kg	800	11/9/2012 16:23
1,4-Dichlorobenzene	ND	U	90.0	692	ug/Kg	800	11/9/2012 16:23
2,2-Dichloropropane	ND	U	272	692	ug/Kg	800	11/9/2012 16:23
2-Butanone	ND	U	500	17300	ug/Kg	800	11/9/2012 16:23
2-Chlorotoluene	ND	U	78.2	692	ug/Kg	800	11/9/2012 16:23
2-Hexanone	ND	U	504	3460	ug/Kg	800	11/9/2012 16:23
4-Chlorotoluene	ND	U	86.5	692	ug/Kg	800	11/9/2012 16:23
4-Isopropyltoluene	ND	U	53.2	692	ug/Kg	800	11/9/2012 16:23
4-Methyl-2-pentanone	ND	U	386	3460	ug/Kg	800	11/9/2012 16:23
Acetone	ND	U	598	17300	ug/Kg	800	11/9/2012 16:23
Benzene	ND	U	78.2	692	ug/Kg	800	11/9/2012 16:23
Bromobenzene	ND	U	76.1	692	ug/Kg	800	11/9/2012 16:23
Bromochloromethane	ND	U	146	692	ug/Kg	800	11/9/2012 16:23
Bromodichloromethane	ND	U	76.1	692	ug/Kg	800	11/9/2012 16:23
Bromoform	ND	U	67.4	692	ug/Kg	800	11/9/2012 16:23
Bromomethane	ND	U	164	692	ug/Kg	800	11/9/2012 16:23
n-Butylbenzene	ND	U	53.2	692	ug/Kg	800	11/9/2012 16:23
Carbon disulfide	ND	U	73.4	692	ug/Kg	800	11/9/2012 16:23
Carbon tetrachloride	ND	U	69.9	692	ug/Kg	800	11/9/2012 16:23
Chlorobenzene	ND	U	80.3	692	ug/Kg	800	11/9/2012 16:23
Chloroethane	ND	U	215	692	ug/Kg	800	11/9/2012 16:23
Chloroform	ND	U	96.2	692	ug/Kg	800	11/9/2012 16:23
Chloromethane	ND	U	310	692	ug/Kg	800	11/9/2012 16:23
Dibromochloromethane	ND	U	92.8	692	ug/Kg	800	11/9/2012 16:23
Dibromomethane	ND	U	116	692	ug/Kg	800	11/9/2012 16:23

Print Date: 11/28/2012

N.C. Certification # 481

Results of **SB43-4-5**

Client Sample ID: **SB43-4-5**
Client Project ID: **2012.0009**
Lab Sample ID: 31203610039-D
Lab Project ID: 31203610

Collection Date: 11/01/2012 13:35
Received Date: 11/02/2012 14:00
Matrix: Soil-Solid as dry weight
Solids (%): 82.60

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
Dichlorodifluoromethane	ND	U	118	3460	ug/Kg	800	11/9/2012 16:23
cis-1,3-Dichloropropene	ND	U	53.1	692	ug/Kg	800	11/9/2012 16:23
trans-1,3-Dichloropropene	ND	U	59.7	692	ug/Kg	800	11/9/2012 16:23
Diisopropyl Ether	ND	U	204	692	ug/Kg	800	11/9/2012 16:23
Ethyl Benzene	ND	U	60.7	692	ug/Kg	800	11/9/2012 16:23
Hexachlorobutadiene	ND	U	54.8	692	ug/Kg	800	11/9/2012 16:23
Isopropylbenzene (Cumene)	ND	U	60.2	692	ug/Kg	800	11/9/2012 16:23
Methyl iodide	ND	U	79.6	692	ug/Kg	800	11/9/2012 16:23
Methylene chloride	ND	U	105	3460	ug/Kg	800	11/9/2012 16:23
Naphthalene	ND	U	59.2	692	ug/Kg	800	11/9/2012 16:23
Styrene	ND	U	70.6	692	ug/Kg	800	11/9/2012 16:23
Tetrachloroethene	**14900**		107	692	ug/Kg	800	11/9/2012 16:23
Toluene	ND	U	92.1	692	ug/Kg	800	11/9/2012 16:23
Trichloroethene	**706**		86.5	692	ug/Kg	800	11/9/2012 16:23
Trichlorofluoromethane	ND	U	94.8	692	ug/Kg	800	11/9/2012 16:23
Vinyl chloride	ND	U	85.8	692	ug/Kg	800	11/9/2012 16:23
Xylene (total)	ND	U	126	1380	ug/Kg	800	11/9/2012 16:23
cis-1,2-Dichloroethene	ND	U	94.1	692	ug/Kg	800	11/9/2012 16:23
m,p-Xylene	ND	U	126	1380	ug/Kg	800	11/9/2012 16:23
n-Propylbenzene	ND	U	78.2	692	ug/Kg	800	11/9/2012 16:23
o-Xylene	ND	U	60.5	692	ug/Kg	800	11/9/2012 16:23
sec-Butylbenzene	ND	U	77.5	692	ug/Kg	800	11/9/2012 16:23
tert-Butyl methyl ether (MTBE)	ND	U	99.7	692	ug/Kg	800	11/9/2012 16:23
tert-Butylbenzene	ND	U	59.2	692	ug/Kg	800	11/9/2012 16:23
trans-1,2-Dichloroethene	ND	U	154	692	ug/Kg	800	11/9/2012 16:23
trans-1,4-Dichloro-2-butene	ND	U	287	3460	ug/Kg	800	11/9/2012 16:23
Surrogates							
1,2-Dichloroethane-d4	97.0			55.0-173	%	800	11/9/2012 16:23
4-Bromofluorobenzene	101			23.0-141	%	800	11/9/2012 16:23
Toluene d8	101			57.0-134	%	800	11/9/2012 16:23

Batch Information

Analytical Batch: **VMS2728**
Analytical Method: **SW-846 8260B**
Instrument: **MSD8**
Analyst: **DVO**

Prep Batch: **VXX4327**
Prep Method: **SW-846 5035 SM**
Prep Date/Time: **11/06/2012 12:31**
Prep Initial Wt./Vol.: **7 g**
Prep Extract Vol: **5 mL**

Print Date: 11/28/2012

N.C. Certification # 481

Results of **SB43-5-6**

Client Sample ID: **SB43-5-6**
Client Project ID: **2012.0009**
Lab Sample ID: 31203610040-D
Lab Project ID: 31203610

Collection Date: 11/01/2012 13:40
Received Date: 11/02/2012 14:00
Matrix: Soil-Solid as dry weight
Solids (%): 80.90

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	U	101	971	ug/Kg	1000	11/9/2012 16:48
1,1,1-Trichloroethane	ND	U	119	971	ug/Kg	1000	11/9/2012 16:48
1,1,2,2-Tetrachloroethane	ND	U	152	971	ug/Kg	1000	11/9/2012 16:48
1,1,2-Trichloroethane	ND	U	122	971	ug/Kg	1000	11/9/2012 16:48
1,1-Dichloroethane	ND	U	160	971	ug/Kg	1000	11/9/2012 16:48
1,1-Dichloroethene	ND	U	206	971	ug/Kg	1000	11/9/2012 16:48
1,1-Dichloropropene	ND	U	83.8	971	ug/Kg	1000	11/9/2012 16:48
1,2,3-Trichlorobenzene	ND	U	107	971	ug/Kg	1000	11/9/2012 16:48
1,2,3-Trichloropropane	ND	U	206	971	ug/Kg	1000	11/9/2012 16:48
1,2,4-Trichlorobenzene	ND	U	88.7	971	ug/Kg	1000	11/9/2012 16:48
1,2,4-Trimethylbenzene	ND	U	93.4	971	ug/Kg	1000	11/9/2012 16:48
1,2-Dibromo-3-chloropropane	ND	U	727	4860	ug/Kg	1000	11/9/2012 16:48
1,2-Dibromoethane	ND	U	117	971	ug/Kg	1000	11/9/2012 16:48
1,2-Dichlorobenzene	ND	U	133	971	ug/Kg	1000	11/9/2012 16:48
1,2-Dichloroethane	ND	U	162	971	ug/Kg	1000	11/9/2012 16:48
1,2-Dichloropropane	ND	U	158	971	ug/Kg	1000	11/9/2012 16:48
1,3,5-Trimethylbenzene	ND	U	110	971	ug/Kg	1000	11/9/2012 16:48
1,3-Dichlorobenzene	ND	U	100	971	ug/Kg	1000	11/9/2012 16:48
1,3-Dichloropropane	ND	U	126	971	ug/Kg	1000	11/9/2012 16:48
1,4-Dichlorobenzene	ND	U	126	971	ug/Kg	1000	11/9/2012 16:48
2,2-Dichloropropane	ND	U	382	971	ug/Kg	1000	11/9/2012 16:48
2-Butanone	ND	U	702	24300	ug/Kg	1000	11/9/2012 16:48
2-Chlorotoluene	ND	U	110	971	ug/Kg	1000	11/9/2012 16:48
2-Hexanone	ND	U	707	4860	ug/Kg	1000	11/9/2012 16:48
4-Chlorotoluene	ND	U	121	971	ug/Kg	1000	11/9/2012 16:48
4-Isopropyltoluene	ND	U	74.7	971	ug/Kg	1000	11/9/2012 16:48
4-Methyl-2-pentanone	ND	U	542	4860	ug/Kg	1000	11/9/2012 16:48
Acetone	ND	U	839	24300	ug/Kg	1000	11/9/2012 16:48
Benzene	ND	U	110	971	ug/Kg	1000	11/9/2012 16:48
Bromobenzene	ND	U	107	971	ug/Kg	1000	11/9/2012 16:48
Bromochloromethane	ND	U	205	971	ug/Kg	1000	11/9/2012 16:48
Bromodichloromethane	ND	U	107	971	ug/Kg	1000	11/9/2012 16:48
Bromoform	ND	U	94.6	971	ug/Kg	1000	11/9/2012 16:48
Bromomethane	ND	U	230	971	ug/Kg	1000	11/9/2012 16:48
n-Butylbenzene	ND	U	74.7	971	ug/Kg	1000	11/9/2012 16:48
Carbon disulfide	ND	U	103	971	ug/Kg	1000	11/9/2012 16:48
Carbon tetrachloride	ND	U	98.1	971	ug/Kg	1000	11/9/2012 16:48
Chlorobenzene	ND	U	113	971	ug/Kg	1000	11/9/2012 16:48
Chloroethane	ND	U	302	971	ug/Kg	1000	11/9/2012 16:48
Chloroform	ND	U	135	971	ug/Kg	1000	11/9/2012 16:48
Chloromethane	ND	U	435	971	ug/Kg	1000	11/9/2012 16:48
Dibromochloromethane	ND	U	130	971	ug/Kg	1000	11/9/2012 16:48
Dibromomethane	ND	U	163	971	ug/Kg	1000	11/9/2012 16:48

Print Date: 11/28/2012

N.C. Certification # 481

Results of **SB43-5-6**

Client Sample ID: **SB43-5-6**
Client Project ID: **2012.0009**
Lab Sample ID: 31203610040-D
Lab Project ID: 31203610

Collection Date: 11/01/2012 13:40
Received Date: 11/02/2012 14:00
Matrix: Soil-Solid as dry weight
Solids (%): 80.90

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
Dichlorodifluoromethane	ND	U	166	4860	ug/Kg	1000	11/9/2012 16:48
cis-1,3-Dichloropropene	ND	U	74.5	971	ug/Kg	1000	11/9/2012 16:48
trans-1,3-Dichloropropene	ND	U	83.7	971	ug/Kg	1000	11/9/2012 16:48
Diisopropyl Ether	ND	U	286	971	ug/Kg	1000	11/9/2012 16:48
Ethyl Benzene	ND	U	85.2	971	ug/Kg	1000	11/9/2012 16:48
Hexachlorobutadiene	ND	U	76.9	971	ug/Kg	1000	11/9/2012 16:48
Isopropylbenzene (Cumene)	ND	U	84.4	971	ug/Kg	1000	11/9/2012 16:48
Methyl iodide	ND	U	112	971	ug/Kg	1000	11/9/2012 16:48
Methylene chloride	ND	U	148	4860	ug/Kg	1000	11/9/2012 16:48
Naphthalene	ND	U	83.1	971	ug/Kg	1000	11/9/2012 16:48
Styrene	ND	U	99.1	971	ug/Kg	1000	11/9/2012 16:48
Tetrachloroethene	**22700**		151	971	ug/Kg	1000	11/9/2012 16:48
Toluene	ND	U	129	971	ug/Kg	1000	11/9/2012 16:48
Trichloroethene	**758**	J	121	971	ug/Kg	1000	11/9/2012 16:48
Trichlorofluoromethane	ND	U	133	971	ug/Kg	1000	11/9/2012 16:48
Vinyl chloride	ND	U	120	971	ug/Kg	1000	11/9/2012 16:48
Xylene (total)	ND	U	177	1940	ug/Kg	1000	11/9/2012 16:48
cis-1,2-Dichloroethene	**699**	J	132	971	ug/Kg	1000	11/9/2012 16:48
m,p-Xylene	ND	U	177	1940	ug/Kg	1000	11/9/2012 16:48
n-Propylbenzene	ND	U	110	971	ug/Kg	1000	11/9/2012 16:48
o-Xylene	ND	U	84.9	971	ug/Kg	1000	11/9/2012 16:48
sec-Butylbenzene	ND	U	109	971	ug/Kg	1000	11/9/2012 16:48
tert-Butyl methyl ether (MTBE)	ND	U	140	971	ug/Kg	1000	11/9/2012 16:48
tert-Butylbenzene	ND	U	83.1	971	ug/Kg	1000	11/9/2012 16:48
trans-1,2-Dichloroethene	ND	U	217	971	ug/Kg	1000	11/9/2012 16:48
trans-1,4-Dichloro-2-butene	ND	U	402	4860	ug/Kg	1000	11/9/2012 16:48
Surrogates							
1,2-Dichloroethane-d4	103			55.0-173	%	1000	11/9/2012 16:48
4-Bromofluorobenzene	104			23.0-141	%	1000	11/9/2012 16:48
Toluene d8	103			57.0-134	%	1000	11/9/2012 16:48

Batch Information

Analytical Batch: **VMS2728**
Analytical Method: **SW-846 8260B**
Instrument: **MSD8**
Analyst: **DVO**

Prep Batch: **VXX4327**
Prep Method: **SW-846 5035 SM**
Prep Date/Time: **11/06/2012 12:33**
Prep Initial Wt./Vol.: **6.36 g**
Prep Extract Vol: **5 mL**

Print Date: 11/28/2012

N.C. Certification # 481

Results of **SB43-6-7**

Client Sample ID: **SB43-6-7**
Client Project ID: **2012.0009**
Lab Sample ID: 31203610041-D
Lab Project ID: 31203610

Collection Date: 11/01/2012 13:50
Received Date: 11/02/2012 14:00
Matrix: Soil-Solid as dry weight
Solids (%): 88.80

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	U	346	3320	ug/Kg	4000	11/9/2012 18:02
1,1,1-Trichloroethane	ND	U	409	3320	ug/Kg	4000	11/9/2012 18:02
1,1,2,2-Tetrachloroethane	ND	U	518	3320	ug/Kg	4000	11/9/2012 18:02
1,1,2-Trichloroethane	ND	U	419	3320	ug/Kg	4000	11/9/2012 18:02
1,1-Dichloroethane	ND	U	548	3320	ug/Kg	4000	11/9/2012 18:02
1,1-Dichloroethene	ND	U	704	3320	ug/Kg	4000	11/9/2012 18:02
1,1-Dichloropropene	ND	U	287	3320	ug/Kg	4000	11/9/2012 18:02
1,2,3-Trichlorobenzene	ND	U	365	3320	ug/Kg	4000	11/9/2012 18:02
1,2,3-Trichloropropane	ND	U	704	3320	ug/Kg	4000	11/9/2012 18:02
1,2,4-Trichlorobenzene	ND	U	303	3320	ug/Kg	4000	11/9/2012 18:02
1,2,4-Trimethylbenzene	ND	U	319	3320	ug/Kg	4000	11/9/2012 18:02
1,2-Dibromo-3-chloropropane	ND	U	2490	16600	ug/Kg	4000	11/9/2012 18:02
1,2-Dibromoethane	ND	U	399	3320	ug/Kg	4000	11/9/2012 18:02
1,2-Dichlorobenzene	ND	U	455	3320	ug/Kg	4000	11/9/2012 18:02
1,2-Dichloroethane	ND	U	555	3320	ug/Kg	4000	11/9/2012 18:02
1,2-Dichloropropane	ND	U	542	3320	ug/Kg	4000	11/9/2012 18:02
1,3,5-Trimethylbenzene	ND	U	375	3320	ug/Kg	4000	11/9/2012 18:02
1,3-Dichlorobenzene	ND	U	342	3320	ug/Kg	4000	11/9/2012 18:02
1,3-Dichloropropane	ND	U	432	3320	ug/Kg	4000	11/9/2012 18:02
1,4-Dichlorobenzene	ND	U	432	3320	ug/Kg	4000	11/9/2012 18:02
2,2-Dichloropropane	ND	U	1310	3320	ug/Kg	4000	11/9/2012 18:02
2-Butanone	ND	U	2400	83100	ug/Kg	4000	11/9/2012 18:02
2-Chlorotoluene	ND	U	375	3320	ug/Kg	4000	11/9/2012 18:02
2-Hexanone	ND	U	2420	16600	ug/Kg	4000	11/9/2012 18:02
4-Chlorotoluene	ND	U	415	3320	ug/Kg	4000	11/9/2012 18:02
4-Isopropyltoluene	ND	U	255	3320	ug/Kg	4000	11/9/2012 18:02
4-Methyl-2-pentanone	ND	U	1850	16600	ug/Kg	4000	11/9/2012 18:02
Acetone	ND	U	2870	83100	ug/Kg	4000	11/9/2012 18:02
Benzene	ND	U	375	3320	ug/Kg	4000	11/9/2012 18:02
Bromobenzene	ND	U	365	3320	ug/Kg	4000	11/9/2012 18:02
Bromochloromethane	ND	U	701	3320	ug/Kg	4000	11/9/2012 18:02
Bromodichloromethane	ND	U	365	3320	ug/Kg	4000	11/9/2012 18:02
Bromoform	ND	U	324	3320	ug/Kg	4000	11/9/2012 18:02
Bromomethane	ND	U	787	3320	ug/Kg	4000	11/9/2012 18:02
n-Butylbenzene	ND	U	255	3320	ug/Kg	4000	11/9/2012 18:02
Carbon disulfide	ND	U	352	3320	ug/Kg	4000	11/9/2012 18:02
Carbon tetrachloride	ND	U	336	3320	ug/Kg	4000	11/9/2012 18:02
Chlorobenzene	ND	U	385	3320	ug/Kg	4000	11/9/2012 18:02
Chloroethane	ND	U	1030	3320	ug/Kg	4000	11/9/2012 18:02
Chloroform	ND	U	462	3320	ug/Kg	4000	11/9/2012 18:02
Chloromethane	ND	U	1490	3320	ug/Kg	4000	11/9/2012 18:02
Dibromochloromethane	ND	U	445	3320	ug/Kg	4000	11/9/2012 18:02
Dibromomethane	ND	U	558	3320	ug/Kg	4000	11/9/2012 18:02

Print Date: 11/28/2012

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Results of **SB43-6-7**

Client Sample ID: **SB43-6-7**
Client Project ID: **2012.0009**
Lab Sample ID: 31203610041-D
Lab Project ID: 31203610

Collection Date: 11/01/2012 13:50
Received Date: 11/02/2012 14:00
Matrix: Soil-Solid as dry weight
Solids (%): 88.80

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
Dichlorodifluoromethane	ND	U	568	16600	ug/Kg	4000	11/9/2012 18:02
cis-1,3-Dichloropropene	ND	U	255	3320	ug/Kg	4000	11/9/2012 18:02
trans-1,3-Dichloropropene	ND	U	286	3320	ug/Kg	4000	11/9/2012 18:02
Diisopropyl Ether	ND	U	977	3320	ug/Kg	4000	11/9/2012 18:02
Ethyl Benzene	ND	U	291	3320	ug/Kg	4000	11/9/2012 18:02
Hexachlorobutadiene	ND	U	263	3320	ug/Kg	4000	11/9/2012 18:02
Isopropylbenzene (Cumene)	ND	U	289	3320	ug/Kg	4000	11/9/2012 18:02
Methyl iodide	ND	U	382	3320	ug/Kg	4000	11/9/2012 18:02
Methylene chloride	ND	U	505	16600	ug/Kg	4000	11/9/2012 18:02
Naphthalene	ND	U	284	3320	ug/Kg	4000	11/9/2012 18:02
Styrene	ND	U	339	3320	ug/Kg	4000	11/9/2012 18:02
Tetrachloroethene	**62300**		515	3320	ug/Kg	4000	11/9/2012 18:02
Toluene	ND	U	442	3320	ug/Kg	4000	11/9/2012 18:02
Trichloroethene	ND	U	415	3320	ug/Kg	4000	11/9/2012 18:02
Trichlorofluoromethane	ND	U	455	3320	ug/Kg	4000	11/9/2012 18:02
Vinyl chloride	ND	U	412	3320	ug/Kg	4000	11/9/2012 18:02
Xylene (total)	ND	U	605	6640	ug/Kg	4000	11/9/2012 18:02
cis-1,2-Dichloroethene	ND	U	452	3320	ug/Kg	4000	11/9/2012 18:02
m,p-Xylene	ND	U	605	6640	ug/Kg	4000	11/9/2012 18:02
n-Propylbenzene	ND	U	375	3320	ug/Kg	4000	11/9/2012 18:02
o-Xylene	ND	U	290	3320	ug/Kg	4000	11/9/2012 18:02
sec-Butylbenzene	ND	U	372	3320	ug/Kg	4000	11/9/2012 18:02
tert-Butyl methyl ether (MTBE)	ND	U	478	3320	ug/Kg	4000	11/9/2012 18:02
tert-Butylbenzene	ND	U	284	3320	ug/Kg	4000	11/9/2012 18:02
trans-1,2-Dichloroethene	ND	U	741	3320	ug/Kg	4000	11/9/2012 18:02
trans-1,4-Dichloro-2-butene	ND	U	1380	16600	ug/Kg	4000	11/9/2012 18:02
Surrogates							
1,2-Dichloroethane-d4	108			55.0-173	%	4000	11/9/2012 18:02
4-Bromofluorobenzene	101			23.0-141	%	4000	11/9/2012 18:02
Toluene d8	100			57.0-134	%	4000	11/9/2012 18:02

Batch Information

Analytical Batch: **VMS2728**
Analytical Method: **SW-846 8260B**
Instrument: **MSD8**
Analyst: **DVO**

Prep Batch: **VXX4327**
Prep Method: **SW-846 5035 SM**
Prep Date/Time: **11/06/2012 16:10**
Prep Initial Wt./Vol.: **6.78 g**
Prep Extract Vol: **5 mL**

Print Date: 11/28/2012

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Results of **SB43-7-8**

Client Sample ID: **SB43-7-8**
Client Project ID: **2012.0009**
Lab Sample ID: 31203610042-D
Lab Project ID: 31203610

Collection Date: 11/01/2012 13:55
Received Date: 11/02/2012 14:00
Matrix: Soil-Solid as dry weight
Solids (%): 86.10

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	U	40.6	391	ug/Kg	400	11/9/2012 15:58
1,1,1-Trichloroethane	ND	U	48.1	391	ug/Kg	400	11/9/2012 15:58
1,1,2,2-Tetrachloroethane	ND	U	61.0	391	ug/Kg	400	11/9/2012 15:58
1,1,2-Trichloroethane	ND	U	49.2	391	ug/Kg	400	11/9/2012 15:58
1,1-Dichloroethane	ND	U	64.5	391	ug/Kg	400	11/9/2012 15:58
1,1-Dichloroethene	ND	U	82.9	391	ug/Kg	400	11/9/2012 15:58
1,1-Dichloropropene	ND	U	33.7	391	ug/Kg	400	11/9/2012 15:58
1,2,3-Trichlorobenzene	ND	U	43.0	391	ug/Kg	400	11/9/2012 15:58
1,2,3-Trichloropropane	ND	U	82.9	391	ug/Kg	400	11/9/2012 15:58
1,2,4-Trichlorobenzene	ND	U	35.7	391	ug/Kg	400	11/9/2012 15:58
1,2,4-Trimethylbenzene	ND	U	37.6	391	ug/Kg	400	11/9/2012 15:58
1,2-Dibromo-3-chloropropane	ND	U	292	1950	ug/Kg	400	11/9/2012 15:58
1,2-Dibromoethane	ND	U	46.9	391	ug/Kg	400	11/9/2012 15:58
1,2-Dichlorobenzene	ND	U	53.5	391	ug/Kg	400	11/9/2012 15:58
1,2-Dichloroethane	ND	U	65.3	391	ug/Kg	400	11/9/2012 15:58
1,2-Dichloropropane	ND	U	63.7	391	ug/Kg	400	11/9/2012 15:58
1,3,5-Trimethylbenzene	ND	U	44.2	391	ug/Kg	400	11/9/2012 15:58
1,3-Dichlorobenzene	ND	U	40.3	391	ug/Kg	400	11/9/2012 15:58
1,3-Dichloropropane	ND	U	50.8	391	ug/Kg	400	11/9/2012 15:58
1,4-Dichlorobenzene	ND	U	50.8	391	ug/Kg	400	11/9/2012 15:58
2,2-Dichloropropane	ND	U	154	391	ug/Kg	400	11/9/2012 15:58
2-Butanone	ND	U	283	9770	ug/Kg	400	11/9/2012 15:58
2-Chlorotoluene	ND	U	44.2	391	ug/Kg	400	11/9/2012 15:58
2-Hexanone	ND	U	285	1950	ug/Kg	400	11/9/2012 15:58
4-Chlorotoluene	ND	U	48.9	391	ug/Kg	400	11/9/2012 15:58
4-Isopropyltoluene	ND	U	30.1	391	ug/Kg	400	11/9/2012 15:58
4-Methyl-2-pentanone	ND	U	218	1950	ug/Kg	400	11/9/2012 15:58
Acetone	ND	U	338	9770	ug/Kg	400	11/9/2012 15:58
Benzene	ND	U	44.2	391	ug/Kg	400	11/9/2012 15:58
Bromobenzene	ND	U	43.0	391	ug/Kg	400	11/9/2012 15:58
Bromochloromethane	ND	U	82.5	391	ug/Kg	400	11/9/2012 15:58
Bromodichloromethane	ND	U	43.0	391	ug/Kg	400	11/9/2012 15:58
Bromoform	ND	U	38.1	391	ug/Kg	400	11/9/2012 15:58
Bromomethane	ND	U	92.6	391	ug/Kg	400	11/9/2012 15:58
n-Butylbenzene	ND	U	30.1	391	ug/Kg	400	11/9/2012 15:58
Carbon disulfide	ND	U	41.4	391	ug/Kg	400	11/9/2012 15:58
Carbon tetrachloride	ND	U	39.5	391	ug/Kg	400	11/9/2012 15:58
Chlorobenzene	ND	U	45.3	391	ug/Kg	400	11/9/2012 15:58
Chloroethane	ND	U	122	391	ug/Kg	400	11/9/2012 15:58
Chloroform	ND	U	54.3	391	ug/Kg	400	11/9/2012 15:58
Chloromethane	ND	U	175	391	ug/Kg	400	11/9/2012 15:58
Dibromochloromethane	ND	U	52.4	391	ug/Kg	400	11/9/2012 15:58
Dibromomethane	ND	U	65.7	391	ug/Kg	400	11/9/2012 15:58

Print Date: 11/28/2012

N.C. Certification # 481

Results of **SB43-7-8**

Client Sample ID: **SB43-7-8**
Client Project ID: **2012.0009**
Lab Sample ID: 31203610042-D
Lab Project ID: 31203610

Collection Date: 11/01/2012 13:55
Received Date: 11/02/2012 14:00
Matrix: Soil-Solid as dry weight
Solids (%): 86.10

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
Dichlorodifluoromethane	ND	U	66.8	1950	ug/Kg	400	11/9/2012 15:58
cis-1,3-Dichloropropene	ND	U	30.0	391	ug/Kg	400	11/9/2012 15:58
trans-1,3-Dichloropropene	ND	U	33.7	391	ug/Kg	400	11/9/2012 15:58
Diisopropyl Ether	ND	U	115	391	ug/Kg	400	11/9/2012 15:58
Ethyl Benzene	ND	U	34.3	391	ug/Kg	400	11/9/2012 15:58
Hexachlorobutadiene	ND	U	31.0	391	ug/Kg	400	11/9/2012 15:58
Isopropylbenzene (Cumene)	ND	U	34.0	391	ug/Kg	400	11/9/2012 15:58
Methyl iodide	ND	U	44.9	391	ug/Kg	400	11/9/2012 15:58
Methylene chloride	ND	U	59.4	1950	ug/Kg	400	11/9/2012 15:58
Naphthalene	ND	U	33.4	391	ug/Kg	400	11/9/2012 15:58
Styrene	ND	U	39.9	391	ug/Kg	400	11/9/2012 15:58
Tetrachloroethene	**8230**		60.6	391	ug/Kg	400	11/9/2012 15:58
Toluene	ND	U	52.0	391	ug/Kg	400	11/9/2012 15:58
Trichloroethene	**117**	J	48.9	391	ug/Kg	400	11/9/2012 15:58
Trichlorofluoromethane	ND	U	53.5	391	ug/Kg	400	11/9/2012 15:58
Vinyl chloride	ND	U	48.5	391	ug/Kg	400	11/9/2012 15:58
Xylene (total)	ND	U	71.1	782	ug/Kg	400	11/9/2012 15:58
cis-1,2-Dichloroethene	ND	U	53.2	391	ug/Kg	400	11/9/2012 15:58
m,p-Xylene	ND	U	71.1	782	ug/Kg	400	11/9/2012 15:58
n-Propylbenzene	ND	U	44.2	391	ug/Kg	400	11/9/2012 15:58
o-Xylene	ND	U	34.2	391	ug/Kg	400	11/9/2012 15:58
sec-Butylbenzene	ND	U	43.8	391	ug/Kg	400	11/9/2012 15:58
tert-Butyl methyl ether (MTBE)	ND	U	56.3	391	ug/Kg	400	11/9/2012 15:58
tert-Butylbenzene	ND	U	33.4	391	ug/Kg	400	11/9/2012 15:58
trans-1,2-Dichloroethene	ND	U	87.2	391	ug/Kg	400	11/9/2012 15:58
trans-1,4-Dichloro-2-butene	ND	U	162	1950	ug/Kg	400	11/9/2012 15:58
Surrogates							
1,2-Dichloroethane-d4	102			55.0-173	%	400	11/9/2012 15:58
4-Bromofluorobenzene	95.0			23.0-141	%	400	11/9/2012 15:58
Toluene d8	102			57.0-134	%	400	11/9/2012 15:58

Batch Information

Analytical Batch: **VMS2728**
Analytical Method: **SW-846 8260B**
Instrument: **MSD8**
Analyst: **DVO**

Prep Batch: **VXX4327**
Prep Method: **SW-846 5035 SM**
Prep Date/Time: **11/06/2012 16:11**
Prep Initial Wt./Vol.: **5.94 g**
Prep Extract Vol: **5 mL**

Print Date: 11/28/2012

N.C. Certification # 481

Results of **SB44-0-1**

Client Sample ID: **SB44-0-1**
Client Project ID: **2012.0009**
Lab Sample ID: 31203610043-D
Lab Project ID: 31203610

Collection Date: 11/01/2012 14:45
Received Date: 11/02/2012 14:00
Matrix: Soil-Solid as dry weight
Solids (%): 92.90

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	U	5.05	48.6	ug/Kg	50	11/9/2012 14:19
1,1,1-Trichloroethane	ND	U	5.98	48.6	ug/Kg	50	11/9/2012 14:19
1,1,2,2-Tetrachloroethane	ND	U	7.58	48.6	ug/Kg	50	11/9/2012 14:19
1,1,2-Trichloroethane	ND	U	6.12	48.6	ug/Kg	50	11/9/2012 14:19
1,1-Dichloroethane	ND	U	8.02	48.6	ug/Kg	50	11/9/2012 14:19
1,1-Dichloroethene	ND	U	10.3	48.6	ug/Kg	50	11/9/2012 14:19
1,1-Dichloropropene	ND	U	4.19	48.6	ug/Kg	50	11/9/2012 14:19
1,2,3-Trichlorobenzene	ND	U	5.34	48.6	ug/Kg	50	11/9/2012 14:19
1,2,3-Trichloropropane	ND	U	10.3	48.6	ug/Kg	50	11/9/2012 14:19
1,2,4-Trichlorobenzene	ND	U	4.44	48.6	ug/Kg	50	11/9/2012 14:19
1,2,4-Trimethylbenzene	ND	U	4.67	48.6	ug/Kg	50	11/9/2012 14:19
1,2-Dibromo-3-chloropropane	ND	U	36.3	243	ug/Kg	50	11/9/2012 14:19
1,2-Dibromoethane	ND	U	5.83	48.6	ug/Kg	50	11/9/2012 14:19
1,2-Dichlorobenzene	ND	U	6.66	48.6	ug/Kg	50	11/9/2012 14:19
1,2-Dichloroethane	ND	U	8.11	48.6	ug/Kg	50	11/9/2012 14:19
1,2-Dichloropropane	ND	U	7.92	48.6	ug/Kg	50	11/9/2012 14:19
1,3,5-Trimethylbenzene	ND	U	5.49	48.6	ug/Kg	50	11/9/2012 14:19
1,3-Dichlorobenzene	ND	U	5.00	48.6	ug/Kg	50	11/9/2012 14:19
1,3-Dichloropropane	ND	U	6.32	48.6	ug/Kg	50	11/9/2012 14:19
1,4-Dichlorobenzene	ND	U	6.32	48.6	ug/Kg	50	11/9/2012 14:19
2,2-Dichloropropane	ND	U	19.1	48.6	ug/Kg	50	11/9/2012 14:19
2-Butanone	ND	U	35.1	1210	ug/Kg	50	11/9/2012 14:19
2-Chlorotoluene	ND	U	5.49	48.6	ug/Kg	50	11/9/2012 14:19
2-Hexanone	ND	U	35.4	243	ug/Kg	50	11/9/2012 14:19
4-Chlorotoluene	ND	U	6.07	48.6	ug/Kg	50	11/9/2012 14:19
4-Isopropyltoluene	ND	U	3.74	48.6	ug/Kg	50	11/9/2012 14:19
4-Methyl-2-pentanone	ND	U	27.1	243	ug/Kg	50	11/9/2012 14:19
Acetone	ND	U	42.0	1210	ug/Kg	50	11/9/2012 14:19
Benzene	ND	U	5.49	48.6	ug/Kg	50	11/9/2012 14:19
Bromobenzene	ND	U	5.34	48.6	ug/Kg	50	11/9/2012 14:19
Bromochloromethane	ND	U	10.3	48.6	ug/Kg	50	11/9/2012 14:19
Bromodichloromethane	ND	U	5.34	48.6	ug/Kg	50	11/9/2012 14:19
Bromoform	ND	U	4.73	48.6	ug/Kg	50	11/9/2012 14:19
Bromomethane	ND	U	11.5	48.6	ug/Kg	50	11/9/2012 14:19
n-Butylbenzene	ND	U	3.74	48.6	ug/Kg	50	11/9/2012 14:19
Carbon disulfide	ND	U	5.15	48.6	ug/Kg	50	11/9/2012 14:19
Carbon tetrachloride	ND	U	4.91	48.6	ug/Kg	50	11/9/2012 14:19
Chlorobenzene	ND	U	5.64	48.6	ug/Kg	50	11/9/2012 14:19
Chloroethane	ND	U	15.1	48.6	ug/Kg	50	11/9/2012 14:19
Chloroform	ND	U	6.75	48.6	ug/Kg	50	11/9/2012 14:19
Chloromethane	ND	U	21.8	48.6	ug/Kg	50	11/9/2012 14:19
Dibromochloromethane	ND	U	6.51	48.6	ug/Kg	50	11/9/2012 14:19
Dibromomethane	ND	U	8.16	48.6	ug/Kg	50	11/9/2012 14:19

Print Date: 11/28/2012

N.C. Certification # 481

Results of **SB44-0-1**

Client Sample ID: **SB44-0-1**
Client Project ID: **2012.0009**
Lab Sample ID: 31203610043-D
Lab Project ID: 31203610

Collection Date: 11/01/2012 14:45
Received Date: 11/02/2012 14:00
Matrix: Soil-Solid as dry weight
Solids (%): 92.90

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
Dichlorodifluoromethane	ND	U	8.31	243	ug/Kg	50	11/9/2012 14:19
cis-1,3-Dichloropropene	ND	U	3.73	48.6	ug/Kg	50	11/9/2012 14:19
trans-1,3-Dichloropropene	ND	U	4.19	48.6	ug/Kg	50	11/9/2012 14:19
Diisopropyl Ether	ND	U	14.3	48.6	ug/Kg	50	11/9/2012 14:19
Ethyl Benzene	ND	U	4.26	48.6	ug/Kg	50	11/9/2012 14:19
Hexachlorobutadiene	ND	U	3.85	48.6	ug/Kg	50	11/9/2012 14:19
Isopropylbenzene (Cumene)	ND	U	4.22	48.6	ug/Kg	50	11/9/2012 14:19
Methyl iodide	ND	U	5.59	48.6	ug/Kg	50	11/9/2012 14:19
Methylene chloride	ND	U	7.38	243	ug/Kg	50	11/9/2012 14:19
Naphthalene	ND	U	4.15	48.6	ug/Kg	50	11/9/2012 14:19
Styrene	ND	U	4.96	48.6	ug/Kg	50	11/9/2012 14:19
Tetrachloroethene	**684**		7.53	48.6	ug/Kg	50	11/9/2012 14:19
Toluene	ND	U	6.46	48.6	ug/Kg	50	11/9/2012 14:19
Trichloroethene	ND	U	6.07	48.6	ug/Kg	50	11/9/2012 14:19
Trichlorofluoromethane	ND	U	6.66	48.6	ug/Kg	50	11/9/2012 14:19
Vinyl chloride	ND	U	6.02	48.6	ug/Kg	50	11/9/2012 14:19
Xylene (total)	ND	U	8.84	97.2	ug/Kg	50	11/9/2012 14:19
cis-1,2-Dichloroethene	ND	U	6.61	48.6	ug/Kg	50	11/9/2012 14:19
m,p-Xylene	ND	U	8.84	97.2	ug/Kg	50	11/9/2012 14:19
n-Propylbenzene	ND	U	5.49	48.6	ug/Kg	50	11/9/2012 14:19
o-Xylene	ND	U	4.25	48.6	ug/Kg	50	11/9/2012 14:19
sec-Butylbenzene	ND	U	5.44	48.6	ug/Kg	50	11/9/2012 14:19
tert-Butyl methyl ether (MTBE)	ND	U	7.00	48.6	ug/Kg	50	11/9/2012 14:19
tert-Butylbenzene	ND	U	4.15	48.6	ug/Kg	50	11/9/2012 14:19
trans-1,2-Dichloroethene	ND	U	10.8	48.6	ug/Kg	50	11/9/2012 14:19
trans-1,4-Dichloro-2-butene	ND	U	20.1	243	ug/Kg	50	11/9/2012 14:19
Surrogates							
1,2-Dichloroethane-d4	96.0			55.0-173	%	50	11/9/2012 14:19
4-Bromofluorobenzene	104			23.0-141	%	50	11/9/2012 14:19
Toluene d8	101			57.0-134	%	50	11/9/2012 14:19

Batch Information

Analytical Batch: **VMS2728**
Analytical Method: **SW-846 8260B**
Instrument: **MSD8**
Analyst: **DVO**

Prep Batch: **VXX4327**
Prep Method: **SW-846 5035 SM**
Prep Date/Time: **11/06/2012 16:13**
Prep Initial Wt./Vol.: **5.54 g**
Prep Extract Vol: **5 mL**

Print Date: 11/28/2012

N.C. Certification # 481

Results of **SB44-1-2**

Client Sample ID: **SB44-1-2**
Client Project ID: **2012.0009**
Lab Sample ID: 31203610044-D
Lab Project ID: 31203610

Collection Date: 11/01/2012 14:55
Received Date: 11/02/2012 14:00
Matrix: Soil-Solid as dry weight
Solids (%): 93.00

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	U	10.4	100	ug/Kg	100	11/9/2012 15:09
1,1,1-Trichloroethane	**47.1**	J	12.3	100	ug/Kg	100	11/9/2012 15:09
1,1,2,2-Tetrachloroethane	ND	U	15.6	100	ug/Kg	100	11/9/2012 15:09
1,1,2-Trichloroethane	ND	U	12.6	100	ug/Kg	100	11/9/2012 15:09
1,1-Dichloroethane	ND	U	16.5	100	ug/Kg	100	11/9/2012 15:09
1,1-Dichloroethene	ND	U	21.2	100	ug/Kg	100	11/9/2012 15:09
1,1-Dichloropropene	ND	U	8.64	100	ug/Kg	100	11/9/2012 15:09
1,2,3-Trichlorobenzene	ND	U	11.0	100	ug/Kg	100	11/9/2012 15:09
1,2,3-Trichloropropane	ND	U	21.2	100	ug/Kg	100	11/9/2012 15:09
1,2,4-Trichlorobenzene	ND	U	9.14	100	ug/Kg	100	11/9/2012 15:09
1,2,4-Trimethylbenzene	ND	U	9.62	100	ug/Kg	100	11/9/2012 15:09
1,2-Dibromo-3-chloropropane	ND	U	74.9	501	ug/Kg	100	11/9/2012 15:09
1,2-Dibromoethane	ND	U	12.0	100	ug/Kg	100	11/9/2012 15:09
1,2-Dichlorobenzene	ND	U	13.7	100	ug/Kg	100	11/9/2012 15:09
1,2-Dichloroethane	ND	U	16.7	100	ug/Kg	100	11/9/2012 15:09
1,2-Dichloropropane	ND	U	16.3	100	ug/Kg	100	11/9/2012 15:09
1,3,5-Trimethylbenzene	ND	U	11.3	100	ug/Kg	100	11/9/2012 15:09
1,3-Dichlorobenzene	ND	U	10.3	100	ug/Kg	100	11/9/2012 15:09
1,3-Dichloropropane	ND	U	13.0	100	ug/Kg	100	11/9/2012 15:09
1,4-Dichlorobenzene	ND	U	13.0	100	ug/Kg	100	11/9/2012 15:09
2,2-Dichloropropane	ND	U	39.4	100	ug/Kg	100	11/9/2012 15:09
2-Butanone	ND	U	72.4	2500	ug/Kg	100	11/9/2012 15:09
2-Chlorotoluene	ND	U	11.3	100	ug/Kg	100	11/9/2012 15:09
2-Hexanone	ND	U	72.9	501	ug/Kg	100	11/9/2012 15:09
4-Chlorotoluene	ND	U	12.5	100	ug/Kg	100	11/9/2012 15:09
4-Isopropyltoluene	ND	U	7.70	100	ug/Kg	100	11/9/2012 15:09
4-Methyl-2-pentanone	ND	U	55.9	501	ug/Kg	100	11/9/2012 15:09
Acetone	ND	U	86.5	2500	ug/Kg	100	11/9/2012 15:09
Benzene	ND	U	11.3	100	ug/Kg	100	11/9/2012 15:09
Bromobenzene	ND	U	11.0	100	ug/Kg	100	11/9/2012 15:09
Bromochloromethane	ND	U	21.1	100	ug/Kg	100	11/9/2012 15:09
Bromodichloromethane	ND	U	11.0	100	ug/Kg	100	11/9/2012 15:09
Bromoform	ND	U	9.75	100	ug/Kg	100	11/9/2012 15:09
Bromomethane	ND	U	23.7	100	ug/Kg	100	11/9/2012 15:09
n-Butylbenzene	ND	U	7.70	100	ug/Kg	100	11/9/2012 15:09
Carbon disulfide	ND	U	10.6	100	ug/Kg	100	11/9/2012 15:09
Carbon tetrachloride	ND	U	10.1	100	ug/Kg	100	11/9/2012 15:09
Chlorobenzene	ND	U	11.6	100	ug/Kg	100	11/9/2012 15:09
Chloroethane	ND	U	31.1	100	ug/Kg	100	11/9/2012 15:09
Chloroform	ND	U	13.9	100	ug/Kg	100	11/9/2012 15:09
Chloromethane	ND	U	44.9	100	ug/Kg	100	11/9/2012 15:09
Dibromochloromethane	ND	U	13.4	100	ug/Kg	100	11/9/2012 15:09
Dibromomethane	ND	U	16.8	100	ug/Kg	100	11/9/2012 15:09

Print Date: 11/28/2012

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Results of **SB44-1-2**

Client Sample ID: **SB44-1-2**
Client Project ID: **2012.0009**
Lab Sample ID: 31203610044-D
Lab Project ID: 31203610

Collection Date: 11/01/2012 14:55
Received Date: 11/02/2012 14:00
Matrix: Soil-Solid as dry weight
Solids (%): 93.00

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
Dichlorodifluoromethane	ND	U	17.1	501	ug/Kg	100	11/9/2012 15:09
cis-1,3-Dichloropropene	ND	U	7.68	100	ug/Kg	100	11/9/2012 15:09
trans-1,3-Dichloropropene	ND	U	8.63	100	ug/Kg	100	11/9/2012 15:09
Diisopropyl Ether	ND	U	29.4	100	ug/Kg	100	11/9/2012 15:09
Ethyl Benzene	ND	U	8.78	100	ug/Kg	100	11/9/2012 15:09
Hexachlorobutadiene	ND	U	7.93	100	ug/Kg	100	11/9/2012 15:09
Isopropylbenzene (Cumene)	ND	U	8.70	100	ug/Kg	100	11/9/2012 15:09
Methyl iodide	ND	U	11.5	100	ug/Kg	100	11/9/2012 15:09
Methylene chloride	ND	U	15.2	501	ug/Kg	100	11/9/2012 15:09
Naphthalene	ND	U	8.56	100	ug/Kg	100	11/9/2012 15:09
Styrene	ND	U	10.2	100	ug/Kg	100	11/9/2012 15:09
Tetrachloroethene	**2880**		15.5	100	ug/Kg	100	11/9/2012 15:09
Toluene	ND	U	13.3	100	ug/Kg	100	11/9/2012 15:09
Trichloroethene	**78.1**	J	12.5	100	ug/Kg	100	11/9/2012 15:09
Trichlorofluoromethane	ND	U	13.7	100	ug/Kg	100	11/9/2012 15:09
Vinyl chloride	ND	U	12.4	100	ug/Kg	100	11/9/2012 15:09
Xylene (total)	ND	U	18.2	200	ug/Kg	100	11/9/2012 15:09
cis-1,2-Dichloroethene	ND	U	13.6	100	ug/Kg	100	11/9/2012 15:09
m,p-Xylene	ND	U	18.2	200	ug/Kg	100	11/9/2012 15:09
n-Propylbenzene	ND	U	11.3	100	ug/Kg	100	11/9/2012 15:09
o-Xylene	ND	U	8.75	100	ug/Kg	100	11/9/2012 15:09
sec-Butylbenzene	ND	U	11.2	100	ug/Kg	100	11/9/2012 15:09
tert-Butyl methyl ether (MTBE)	ND	U	14.4	100	ug/Kg	100	11/9/2012 15:09
tert-Butylbenzene	ND	U	8.56	100	ug/Kg	100	11/9/2012 15:09
trans-1,2-Dichloroethene	ND	U	22.3	100	ug/Kg	100	11/9/2012 15:09
trans-1,4-Dichloro-2-butene	ND	U	41.5	501	ug/Kg	100	11/9/2012 15:09
Surrogates							
1,2-Dichloroethane-d4	98.0			55.0-173	%	100	11/9/2012 15:09
4-Bromofluorobenzene	95.0			23.0-141	%	100	11/9/2012 15:09
Toluene d8	100			57.0-134	%	100	11/9/2012 15:09

Batch Information

Analytical Batch: **VMS2728**
Analytical Method: **SW-846 8260B**
Instrument: **MSD8**
Analyst: **DVO**

Prep Batch: **VXX4327**
Prep Method: **SW-846 5035 SM**
Prep Date/Time: **11/06/2012 16:14**
Prep Initial Wt./Vol.: **5.37 g**
Prep Extract Vol: **5 mL**

Print Date: 11/28/2012

N.C. Certification # 481

Results of **SB44-2-3**

Client Sample ID: **SB44-2-3**
Client Project ID: **2012.0009**
Lab Sample ID: 31203610045-D
Lab Project ID: 31203610

Collection Date: 11/01/2012 15:00
Received Date: 11/02/2012 14:00
Matrix: Soil-Solid as dry weight
Solids (%): 93.10

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	U	43.5	419	ug/Kg	400	11/12/2012 16:32
1,1,1-Trichloroethane	ND	U	51.5	419	ug/Kg	400	11/12/2012 16:32
1,1,2,2-Tetrachloroethane	ND	U	65.3	419	ug/Kg	400	11/12/2012 16:32
1,1,2-Trichloroethane	ND	U	52.7	419	ug/Kg	400	11/12/2012 16:32
1,1-Dichloroethane	ND	U	69.1	419	ug/Kg	400	11/12/2012 16:32
1,1-Dichloroethene	ND	U	88.7	419	ug/Kg	400	11/12/2012 16:32
1,1-Dichloropropene	ND	U	36.1	419	ug/Kg	400	11/12/2012 16:32
1,2,3-Trichlorobenzene	ND	U	46.0	419	ug/Kg	400	11/12/2012 16:32
1,2,3-Trichloropropane	ND	U	88.7	419	ug/Kg	400	11/12/2012 16:32
1,2,4-Trichlorobenzene	ND	U	38.2	419	ug/Kg	400	11/12/2012 16:32
1,2,4-Trimethylbenzene	ND	U	40.2	419	ug/Kg	400	11/12/2012 16:32
1,2-Dibromo-3-chloropropane	ND	U	313	2090	ug/Kg	400	11/12/2012 16:32
1,2-Dibromoethane	ND	U	50.2	419	ug/Kg	400	11/12/2012 16:32
1,2-Dichlorobenzene	ND	U	57.3	419	ug/Kg	400	11/12/2012 16:32
1,2-Dichloroethane	ND	U	69.9	419	ug/Kg	400	11/12/2012 16:32
1,2-Dichloropropane	ND	U	68.2	419	ug/Kg	400	11/12/2012 16:32
1,3,5-Trimethylbenzene	ND	U	47.3	419	ug/Kg	400	11/12/2012 16:32
1,3-Dichlorobenzene	ND	U	43.1	419	ug/Kg	400	11/12/2012 16:32
1,3-Dichloropropane	ND	U	54.4	419	ug/Kg	400	11/12/2012 16:32
1,4-Dichlorobenzene	ND	U	54.4	419	ug/Kg	400	11/12/2012 16:32
2,2-Dichloropropane	ND	U	164	419	ug/Kg	400	11/12/2012 16:32
2-Butanone	ND	U	303	10500	ug/Kg	400	11/12/2012 16:32
2-Chlorotoluene	ND	U	47.3	419	ug/Kg	400	11/12/2012 16:32
2-Hexanone	ND	U	305	2090	ug/Kg	400	11/12/2012 16:32
4-Chlorotoluene	ND	U	52.3	419	ug/Kg	400	11/12/2012 16:32
4-Isopropyltoluene	ND	U	32.2	419	ug/Kg	400	11/12/2012 16:32
4-Methyl-2-pentanone	ND	U	234	2090	ug/Kg	400	11/12/2012 16:32
Acetone	ND	U	362	10500	ug/Kg	400	11/12/2012 16:32
Benzene	ND	U	47.3	419	ug/Kg	400	11/12/2012 16:32
Bromobenzene	ND	U	46.0	419	ug/Kg	400	11/12/2012 16:32
Bromochloromethane	ND	U	88.3	419	ug/Kg	400	11/12/2012 16:32
Bromodichloromethane	ND	U	46.0	419	ug/Kg	400	11/12/2012 16:32
Bromoform	ND	U	40.8	419	ug/Kg	400	11/12/2012 16:32
Bromomethane	ND	U	99.2	419	ug/Kg	400	11/12/2012 16:32
n-Butylbenzene	ND	U	32.2	419	ug/Kg	400	11/12/2012 16:32
Carbon disulfide	ND	U	44.4	419	ug/Kg	400	11/12/2012 16:32
Carbon tetrachloride	ND	U	42.3	419	ug/Kg	400	11/12/2012 16:32
Chlorobenzene	ND	U	48.6	419	ug/Kg	400	11/12/2012 16:32
Chloroethane	ND	U	130	419	ug/Kg	400	11/12/2012 16:32
Chloroform	ND	U	58.2	419	ug/Kg	400	11/12/2012 16:32
Chloromethane	ND	U	188	419	ug/Kg	400	11/12/2012 16:32
Dibromochloromethane	ND	U	56.1	419	ug/Kg	400	11/12/2012 16:32
Dibromomethane	ND	U	70.3	419	ug/Kg	400	11/12/2012 16:32

Print Date: 11/28/2012

N.C. Certification # 481

Results of **SB44-2-3**

Client Sample ID: **SB44-2-3**
Client Project ID: **2012.0009**
Lab Sample ID: 31203610045-D
Lab Project ID: 31203610

Collection Date: 11/01/2012 15:00
Received Date: 11/02/2012 14:00
Matrix: Soil-Solid as dry weight
Solids (%): 93.10

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
Dichlorodifluoromethane	ND	U	71.6	2090	ug/Kg	400	11/12/2012 16:32
cis-1,3-Dichloropropene	ND	U	32.1	419	ug/Kg	400	11/12/2012 16:32
trans-1,3-Dichloropropene	ND	U	36.1	419	ug/Kg	400	11/12/2012 16:32
Diisopropyl Ether	ND	U	123	419	ug/Kg	400	11/12/2012 16:32
Ethyl Benzene	ND	U	36.7	419	ug/Kg	400	11/12/2012 16:32
Hexachlorobutadiene	ND	U	33.1	419	ug/Kg	400	11/12/2012 16:32
Isopropylbenzene (Cumene)	ND	U	36.4	419	ug/Kg	400	11/12/2012 16:32
Methyl iodide	ND	U	48.1	419	ug/Kg	400	11/12/2012 16:32
Methylene chloride	ND	U	63.6	2090	ug/Kg	400	11/12/2012 16:32
Naphthalene	ND	U	35.8	419	ug/Kg	400	11/12/2012 16:32
Styrene	ND	U	42.7	419	ug/Kg	400	11/12/2012 16:32
Tetrachloroethene	**13700**		64.9	419	ug/Kg	400	11/12/2012 16:32
Toluene	ND	U	55.7	419	ug/Kg	400	11/12/2012 16:32
Trichloroethene	**410**	J	52.3	419	ug/Kg	400	11/12/2012 16:32
Trichlorofluoromethane	ND	U	57.3	419	ug/Kg	400	11/12/2012 16:32
Vinyl chloride	ND	U	51.9	419	ug/Kg	400	11/12/2012 16:32
Xylene (total)	ND	U	76.2	837	ug/Kg	400	11/12/2012 16:32
cis-1,2-Dichloroethene	**121**	J	56.9	419	ug/Kg	400	11/12/2012 16:32
m,p-Xylene	ND	U	76.2	837	ug/Kg	400	11/12/2012 16:32
n-Propylbenzene	ND	U	47.3	419	ug/Kg	400	11/12/2012 16:32
o-Xylene	ND	U	36.6	419	ug/Kg	400	11/12/2012 16:32
sec-Butylbenzene	ND	U	46.9	419	ug/Kg	400	11/12/2012 16:32
tert-Butyl methyl ether (MTBE)	ND	U	60.3	419	ug/Kg	400	11/12/2012 16:32
tert-Butylbenzene	ND	U	35.8	419	ug/Kg	400	11/12/2012 16:32
trans-1,2-Dichloroethene	ND	U	93.3	419	ug/Kg	400	11/12/2012 16:32
trans-1,4-Dichloro-2-butene	ND	U	173	2090	ug/Kg	400	11/12/2012 16:32
Surrogates							
1,2-Dichloroethane-d4	103			55.0-173	%	400	11/12/2012 16:32
4-Bromofluorobenzene	103			23.0-141	%	400	11/12/2012 16:32
Toluene d8	99.0			57.0-134	%	400	11/12/2012 16:32

Batch Information

Analytical Batch: **VMS2730**
Analytical Method: **SW-846 8260B**
Instrument: **MSD8**
Analyst: **BWS**

Prep Batch: **VXX4329**
Prep Method: **SW-846 5035 SM**
Prep Date/Time: **11/06/2012 16:16**
Prep Initial Wt./Vol.: **5.13 g**
Prep Extract Vol: **5 mL**

Print Date: 11/28/2012

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Results of **SB44-3-4**

Client Sample ID: **SB44-3-4**
Client Project ID: **2012.0009**
Lab Sample ID: 31203610046-D
Lab Project ID: 31203610

Collection Date: 11/01/2012 15:05
Received Date: 11/02/2012 14:00
Matrix: Soil-Solid as dry weight
Solids (%): 91.20

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	U	46.6	448	ug/Kg	400	11/12/2012 16:57
1,1,1-Trichloroethane	**480**		55.1	448	ug/Kg	400	11/12/2012 16:57
1,1,2,2-Tetrachloroethane	ND	U	69.9	448	ug/Kg	400	11/12/2012 16:57
1,1,2-Trichloroethane	ND	U	56.5	448	ug/Kg	400	11/12/2012 16:57
1,1-Dichloroethane	ND	U	74.0	448	ug/Kg	400	11/12/2012 16:57
1,1-Dichloroethene	ND	U	95.0	448	ug/Kg	400	11/12/2012 16:57
1,1-Dichloropropene	ND	U	38.7	448	ug/Kg	400	11/12/2012 16:57
1,2,3-Trichlorobenzene	ND	U	49.3	448	ug/Kg	400	11/12/2012 16:57
1,2,3-Trichloropropane	ND	U	95.0	448	ug/Kg	400	11/12/2012 16:57
1,2,4-Trichlorobenzene	ND	U	40.9	448	ug/Kg	400	11/12/2012 16:57
1,2,4-Trimethylbenzene	ND	U	43.1	448	ug/Kg	400	11/12/2012 16:57
1,2-Dibromo-3-chloropropane	ND	U	335	2240	ug/Kg	400	11/12/2012 16:57
1,2-Dibromoethane	ND	U	53.8	448	ug/Kg	400	11/12/2012 16:57
1,2-Dichlorobenzene	ND	U	61.4	448	ug/Kg	400	11/12/2012 16:57
1,2-Dichloroethane	ND	U	74.9	448	ug/Kg	400	11/12/2012 16:57
1,2-Dichloropropane	ND	U	73.1	448	ug/Kg	400	11/12/2012 16:57
1,3,5-Trimethylbenzene	ND	U	50.7	448	ug/Kg	400	11/12/2012 16:57
1,3-Dichlorobenzene	ND	U	46.2	448	ug/Kg	400	11/12/2012 16:57
1,3-Dichloropropane	ND	U	58.3	448	ug/Kg	400	11/12/2012 16:57
1,4-Dichlorobenzene	ND	U	58.3	448	ug/Kg	400	11/12/2012 16:57
2,2-Dichloropropane	ND	U	176	448	ug/Kg	400	11/12/2012 16:57
2-Butanone	ND	U	324	11200	ug/Kg	400	11/12/2012 16:57
2-Chlorotoluene	ND	U	50.7	448	ug/Kg	400	11/12/2012 16:57
2-Hexanone	ND	U	326	2240	ug/Kg	400	11/12/2012 16:57
4-Chlorotoluene	ND	U	56.0	448	ug/Kg	400	11/12/2012 16:57
4-Isopropyltoluene	ND	U	34.5	448	ug/Kg	400	11/12/2012 16:57
4-Methyl-2-pentanone	ND	U	250	2240	ug/Kg	400	11/12/2012 16:57
Acetone	ND	U	387	11200	ug/Kg	400	11/12/2012 16:57
Benzene	ND	U	50.7	448	ug/Kg	400	11/12/2012 16:57
Bromobenzene	ND	U	49.3	448	ug/Kg	400	11/12/2012 16:57
Bromochloromethane	ND	U	94.6	448	ug/Kg	400	11/12/2012 16:57
Bromodichloromethane	ND	U	49.3	448	ug/Kg	400	11/12/2012 16:57
Bromoform	ND	U	43.7	448	ug/Kg	400	11/12/2012 16:57
Bromomethane	ND	U	106	448	ug/Kg	400	11/12/2012 16:57
n-Butylbenzene	ND	U	34.5	448	ug/Kg	400	11/12/2012 16:57
Carbon disulfide	ND	U	47.5	448	ug/Kg	400	11/12/2012 16:57
Carbon tetrachloride	ND	U	45.3	448	ug/Kg	400	11/12/2012 16:57
Chlorobenzene	ND	U	52.0	448	ug/Kg	400	11/12/2012 16:57
Chloroethane	ND	U	139	448	ug/Kg	400	11/12/2012 16:57
Chloroform	ND	U	62.3	448	ug/Kg	400	11/12/2012 16:57
Chloromethane	ND	U	201	448	ug/Kg	400	11/12/2012 16:57
Dibromochloromethane	ND	U	60.1	448	ug/Kg	400	11/12/2012 16:57
Dibromomethane	ND	U	75.3	448	ug/Kg	400	11/12/2012 16:57

Print Date: 11/28/2012

N.C. Certification # 481

Results of **SB44-3-4**

Client Sample ID: **SB44-3-4**
Client Project ID: **2012.0009**
Lab Sample ID: 31203610046-D
Lab Project ID: 31203610

Collection Date: 11/01/2012 15:05
Received Date: 11/02/2012 14:00
Matrix: Soil-Solid as dry weight
Solids (%): 91.20

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
Dichlorodifluoromethane	ND	U	76.7	2240	ug/Kg	400	11/12/2012 16:57
cis-1,3-Dichloropropene	ND	U	34.4	448	ug/Kg	400	11/12/2012 16:57
trans-1,3-Dichloropropene	ND	U	38.6	448	ug/Kg	400	11/12/2012 16:57
Diisopropyl Ether	ND	U	132	448	ug/Kg	400	11/12/2012 16:57
Ethyl Benzene	ND	U	39.3	448	ug/Kg	400	11/12/2012 16:57
Hexachlorobutadiene	ND	U	35.5	448	ug/Kg	400	11/12/2012 16:57
Isopropylbenzene (Cumene)	ND	U	39.0	448	ug/Kg	400	11/12/2012 16:57
Methyl iodide	ND	U	51.5	448	ug/Kg	400	11/12/2012 16:57
Methylene chloride	ND	U	68.1	2240	ug/Kg	400	11/12/2012 16:57
Naphthalene	ND	U	38.3	448	ug/Kg	400	11/12/2012 16:57
Styrene	ND	U	45.7	448	ug/Kg	400	11/12/2012 16:57
Tetrachloroethene	**13800**		69.5	448	ug/Kg	400	11/12/2012 16:57
Toluene	ND	U	59.6	448	ug/Kg	400	11/12/2012 16:57
Trichloroethene	**560**		56.0	448	ug/Kg	400	11/12/2012 16:57
Trichlorofluoromethane	ND	U	61.4	448	ug/Kg	400	11/12/2012 16:57
Vinyl chloride	ND	U	55.6	448	ug/Kg	400	11/12/2012 16:57
Xylene (total)	ND	U	81.6	897	ug/Kg	400	11/12/2012 16:57
cis-1,2-Dichloroethene	**278**	J	61.0	448	ug/Kg	400	11/12/2012 16:57
m,p-Xylene	ND	U	81.6	897	ug/Kg	400	11/12/2012 16:57
n-Propylbenzene	ND	U	50.7	448	ug/Kg	400	11/12/2012 16:57
o-Xylene	ND	U	39.2	448	ug/Kg	400	11/12/2012 16:57
sec-Butylbenzene	ND	U	50.2	448	ug/Kg	400	11/12/2012 16:57
tert-Butyl methyl ether (MTBE)	ND	U	64.5	448	ug/Kg	400	11/12/2012 16:57
tert-Butylbenzene	ND	U	38.3	448	ug/Kg	400	11/12/2012 16:57
trans-1,2-Dichloroethene	ND	U	100	448	ug/Kg	400	11/12/2012 16:57
trans-1,4-Dichloro-2-butene	ND	U	186	2240	ug/Kg	400	11/12/2012 16:57
Surrogates							
1,2-Dichloroethane-d4	103			55.0-173	%	400	11/12/2012 16:57
4-Bromofluorobenzene	99.0			23.0-141	%	400	11/12/2012 16:57
Toluene d8	102			57.0-134	%	400	11/12/2012 16:57

Batch Information

Analytical Batch: **VMS2730**
Analytical Method: **SW-846 8260B**
Instrument: **MSD8**
Analyst: **BWS**

Prep Batch: **VXX4329**
Prep Method: **SW-846 5035 SM**
Prep Date/Time: **11/06/2012 16:19**
Prep Initial Wt./Vol.: **4.89 g**
Prep Extract Vol: **5 mL**

Print Date: 11/28/2012

N.C. Certification # 481

Results of **SB44-4-5**

Client Sample ID: **SB44-4-5**
Client Project ID: **2012.0009**
Lab Sample ID: 31203610047-D
Lab Project ID: 31203610

Collection Date: 11/01/2012 15:15
Received Date: 11/02/2012 14:00
Matrix: Soil-Solid as dry weight
Solids (%): 79.90

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	U	394	3790	ug/Kg	4000	11/9/2012 17:37
1,1,1-Trichloroethane	ND	U	466	3790	ug/Kg	4000	11/9/2012 17:37
1,1,2,2-Tetrachloroethane	ND	U	591	3790	ug/Kg	4000	11/9/2012 17:37
1,1,2-Trichloroethane	ND	U	478	3790	ug/Kg	4000	11/9/2012 17:37
1,1-Dichloroethane	ND	U	625	3790	ug/Kg	4000	11/9/2012 17:37
1,1-Dichloroethene	ND	U	804	3790	ug/Kg	4000	11/9/2012 17:37
1,1-Dichloropropene	ND	U	327	3790	ug/Kg	4000	11/9/2012 17:37
1,2,3-Trichlorobenzene	ND	U	417	3790	ug/Kg	4000	11/9/2012 17:37
1,2,3-Trichloropropane	ND	U	804	3790	ug/Kg	4000	11/9/2012 17:37
1,2,4-Trichlorobenzene	ND	U	346	3790	ug/Kg	4000	11/9/2012 17:37
1,2,4-Trimethylbenzene	ND	U	364	3790	ug/Kg	4000	11/9/2012 17:37
1,2-Dibromo-3-chloropropane	ND	U	2840	19000	ug/Kg	4000	11/9/2012 17:37
1,2-Dibromoethane	ND	U	455	3790	ug/Kg	4000	11/9/2012 17:37
1,2-Dichlorobenzene	ND	U	519	3790	ug/Kg	4000	11/9/2012 17:37
1,2-Dichloroethane	ND	U	633	3790	ug/Kg	4000	11/9/2012 17:37
1,2-Dichloropropane	ND	U	618	3790	ug/Kg	4000	11/9/2012 17:37
1,3,5-Trimethylbenzene	ND	U	428	3790	ug/Kg	4000	11/9/2012 17:37
1,3-Dichlorobenzene	ND	U	390	3790	ug/Kg	4000	11/9/2012 17:37
1,3-Dichloropropane	ND	U	493	3790	ug/Kg	4000	11/9/2012 17:37
1,4-Dichlorobenzene	ND	U	493	3790	ug/Kg	4000	11/9/2012 17:37
2,2-Dichloropropane	ND	U	1490	3790	ug/Kg	4000	11/9/2012 17:37
2-Butanone	ND	U	2740	94800	ug/Kg	4000	11/9/2012 17:37
2-Chlorotoluene	ND	U	428	3790	ug/Kg	4000	11/9/2012 17:37
2-Hexanone	ND	U	2760	19000	ug/Kg	4000	11/9/2012 17:37
4-Chlorotoluene	ND	U	474	3790	ug/Kg	4000	11/9/2012 17:37
4-Isopropyltoluene	ND	U	291	3790	ug/Kg	4000	11/9/2012 17:37
4-Methyl-2-pentanone	ND	U	2110	19000	ug/Kg	4000	11/9/2012 17:37
Acetone	ND	U	3270	94800	ug/Kg	4000	11/9/2012 17:37
Benzene	ND	U	428	3790	ug/Kg	4000	11/9/2012 17:37
Bromobenzene	ND	U	417	3790	ug/Kg	4000	11/9/2012 17:37
Bromochloromethane	ND	U	800	3790	ug/Kg	4000	11/9/2012 17:37
Bromodichloromethane	ND	U	417	3790	ug/Kg	4000	11/9/2012 17:37
Bromoform	ND	U	369	3790	ug/Kg	4000	11/9/2012 17:37
Bromomethane	ND	U	898	3790	ug/Kg	4000	11/9/2012 17:37
n-Butylbenzene	ND	U	291	3790	ug/Kg	4000	11/9/2012 17:37
Carbon disulfide	ND	U	402	3790	ug/Kg	4000	11/9/2012 17:37
Carbon tetrachloride	ND	U	383	3790	ug/Kg	4000	11/9/2012 17:37
Chlorobenzene	ND	U	440	3790	ug/Kg	4000	11/9/2012 17:37
Chloroethane	ND	U	1180	3790	ug/Kg	4000	11/9/2012 17:37
Chloroform	ND	U	527	3790	ug/Kg	4000	11/9/2012 17:37
Chloromethane	ND	U	1700	3790	ug/Kg	4000	11/9/2012 17:37
Dibromochloromethane	ND	U	508	3790	ug/Kg	4000	11/9/2012 17:37
Dibromomethane	ND	U	637	3790	ug/Kg	4000	11/9/2012 17:37

Print Date: 11/28/2012

N.C. Certification # 481

Results of **SB44-4-5**

Client Sample ID: **SB44-4-5**
Client Project ID: **2012.0009**
Lab Sample ID: 31203610047-D
Lab Project ID: 31203610

Collection Date: 11/01/2012 15:15
Received Date: 11/02/2012 14:00
Matrix: Soil-Solid as dry weight
Solids (%): 79.90

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
Dichlorodifluoromethane	ND	U	648	19000	ug/Kg	4000	11/9/2012 17:37
cis-1,3-Dichloropropene	ND	U	291	3790	ug/Kg	4000	11/9/2012 17:37
trans-1,3-Dichloropropene	ND	U	327	3790	ug/Kg	4000	11/9/2012 17:37
Diisopropyl Ether	ND	U	1110	3790	ug/Kg	4000	11/9/2012 17:37
Ethyl Benzene	ND	U	332	3790	ug/Kg	4000	11/9/2012 17:37
Hexachlorobutadiene	ND	U	300	3790	ug/Kg	4000	11/9/2012 17:37
Isopropylbenzene (Cumene)	ND	U	329	3790	ug/Kg	4000	11/9/2012 17:37
Methyl iodide	ND	U	436	3790	ug/Kg	4000	11/9/2012 17:37
Methylene chloride	ND	U	576	19000	ug/Kg	4000	11/9/2012 17:37
Naphthalene	ND	U	324	3790	ug/Kg	4000	11/9/2012 17:37
Styrene	ND	U	387	3790	ug/Kg	4000	11/9/2012 17:37
Tetrachloroethene	**79700**		587	3790	ug/Kg	4000	11/9/2012 17:37
Toluene	ND	U	504	3790	ug/Kg	4000	11/9/2012 17:37
Trichloroethene	**796**	J	474	3790	ug/Kg	4000	11/9/2012 17:37
Trichlorofluoromethane	ND	U	519	3790	ug/Kg	4000	11/9/2012 17:37
Vinyl chloride	ND	U	470	3790	ug/Kg	4000	11/9/2012 17:37
Xylene (total)	ND	U	690	7580	ug/Kg	4000	11/9/2012 17:37
cis-1,2-Dichloroethene	ND	U	515	3790	ug/Kg	4000	11/9/2012 17:37
m,p-Xylene	ND	U	690	7580	ug/Kg	4000	11/9/2012 17:37
n-Propylbenzene	ND	U	428	3790	ug/Kg	4000	11/9/2012 17:37
o-Xylene	ND	U	331	3790	ug/Kg	4000	11/9/2012 17:37
sec-Butylbenzene	ND	U	425	3790	ug/Kg	4000	11/9/2012 17:37
tert-Butyl methyl ether (MTBE)	ND	U	546	3790	ug/Kg	4000	11/9/2012 17:37
tert-Butylbenzene	ND	U	324	3790	ug/Kg	4000	11/9/2012 17:37
trans-1,2-Dichloroethene	ND	U	845	3790	ug/Kg	4000	11/9/2012 17:37
trans-1,4-Dichloro-2-butene	ND	U	1570	19000	ug/Kg	4000	11/9/2012 17:37
Surrogates							
1,2-Dichloroethane-d4	101			55.0-173	%	4000	11/9/2012 17:37
4-Bromofluorobenzene	105			23.0-141	%	4000	11/9/2012 17:37
Toluene d8	101			57.0-134	%	4000	11/9/2012 17:37

Batch Information

Analytical Batch: **VMS2728**
Analytical Method: **SW-846 8260B**
Instrument: **MSD8**
Analyst: **DVO**

Prep Batch: **VXX4327**
Prep Method: **SW-846 5035 SM**
Prep Date/Time: **11/06/2012 16:20**
Prep Initial Wt./Vol.: **6.6 g**
Prep Extract Vol: **5 mL**

Print Date: 11/28/2012

N.C. Certification # 481

Results of **SB44-5-6**

Client Sample ID: **SB44-5-6**
Client Project ID: **2012.0009**
Lab Sample ID: 31203610048-D
Lab Project ID: 31203610

Collection Date: 11/01/2012 15:20
Received Date: 11/02/2012 14:00
Matrix: Soil-Solid as dry weight
Solids (%): 75.90

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	U	574	5520	ug/Kg	5000	11/9/2012 18:26
1,1,1-Trichloroethane	ND	U	679	5520	ug/Kg	5000	11/9/2012 18:26
1,1,2,2-Tetrachloroethane	ND	U	861	5520	ug/Kg	5000	11/9/2012 18:26
1,1,2-Trichloroethane	ND	U	695	5520	ug/Kg	5000	11/9/2012 18:26
1,1-Dichloroethane	ND	U	911	5520	ug/Kg	5000	11/9/2012 18:26
1,1-Dichloroethene	ND	U	1170	5520	ug/Kg	5000	11/9/2012 18:26
1,1-Dichloropropene	ND	U	476	5520	ug/Kg	5000	11/9/2012 18:26
1,2,3-Trichlorobenzene	ND	U	607	5520	ug/Kg	5000	11/9/2012 18:26
1,2,3-Trichloropropane	ND	U	1170	5520	ug/Kg	5000	11/9/2012 18:26
1,2,4-Trichlorobenzene	ND	U	504	5520	ug/Kg	5000	11/9/2012 18:26
1,2,4-Trimethylbenzene	ND	U	530	5520	ug/Kg	5000	11/9/2012 18:26
1,2-Dibromo-3-chloropropane	ND	U	4130	27600	ug/Kg	5000	11/9/2012 18:26
1,2-Dibromoethane	ND	U	662	5520	ug/Kg	5000	11/9/2012 18:26
1,2-Dichlorobenzene	ND	U	756	5520	ug/Kg	5000	11/9/2012 18:26
1,2-Dichloroethane	ND	U	922	5520	ug/Kg	5000	11/9/2012 18:26
1,2-Dichloropropane	ND	U	899	5520	ug/Kg	5000	11/9/2012 18:26
1,3,5-Trimethylbenzene	ND	U	624	5520	ug/Kg	5000	11/9/2012 18:26
1,3-Dichlorobenzene	ND	U	568	5520	ug/Kg	5000	11/9/2012 18:26
1,3-Dichloropropane	ND	U	717	5520	ug/Kg	5000	11/9/2012 18:26
1,4-Dichlorobenzene	ND	U	717	5520	ug/Kg	5000	11/9/2012 18:26
2,2-Dichloropropane	ND	U	2170	5520	ug/Kg	5000	11/9/2012 18:26
2-Butanone	ND	U	3990	138000	ug/Kg	5000	11/9/2012 18:26
2-Chlorotoluene	ND	U	624	5520	ug/Kg	5000	11/9/2012 18:26
2-Hexanone	ND	U	4020	27600	ug/Kg	5000	11/9/2012 18:26
4-Chlorotoluene	ND	U	690	5520	ug/Kg	5000	11/9/2012 18:26
4-Isopropyltoluene	ND	U	424	5520	ug/Kg	5000	11/9/2012 18:26
4-Methyl-2-pentanone	ND	U	3080	27600	ug/Kg	5000	11/9/2012 18:26
Acetone	ND	U	4770	138000	ug/Kg	5000	11/9/2012 18:26
Benzene	ND	U	624	5520	ug/Kg	5000	11/9/2012 18:26
Bromobenzene	ND	U	607	5520	ug/Kg	5000	11/9/2012 18:26
Bromochloromethane	ND	U	1160	5520	ug/Kg	5000	11/9/2012 18:26
Bromodichloromethane	ND	U	607	5520	ug/Kg	5000	11/9/2012 18:26
Bromoform	ND	U	537	5520	ug/Kg	5000	11/9/2012 18:26
Bromomethane	ND	U	1310	5520	ug/Kg	5000	11/9/2012 18:26
n-Butylbenzene	ND	U	424	5520	ug/Kg	5000	11/9/2012 18:26
Carbon disulfide	ND	U	585	5520	ug/Kg	5000	11/9/2012 18:26
Carbon tetrachloride	ND	U	557	5520	ug/Kg	5000	11/9/2012 18:26
Chlorobenzene	ND	U	640	5520	ug/Kg	5000	11/9/2012 18:26
Chloroethane	ND	U	1720	5520	ug/Kg	5000	11/9/2012 18:26
Chloroform	ND	U	767	5520	ug/Kg	5000	11/9/2012 18:26
Chloromethane	ND	U	2470	5520	ug/Kg	5000	11/9/2012 18:26
Dibromochloromethane	ND	U	739	5520	ug/Kg	5000	11/9/2012 18:26
Dibromomethane	ND	U	927	5520	ug/Kg	5000	11/9/2012 18:26

Print Date: 11/28/2012

N.C. Certification # 481

Results of **SB44-5-6**

Client Sample ID: **SB44-5-6**
Client Project ID: **2012.0009**
Lab Sample ID: 31203610048-D
Lab Project ID: 31203610

Collection Date: 11/01/2012 15:20
Received Date: 11/02/2012 14:00
Matrix: Soil-Solid as dry weight
Solids (%): 75.90

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
Dichlorodifluoromethane	ND	U	944	27600	ug/Kg	5000	11/9/2012 18:26
cis-1,3-Dichloropropene	ND	U	423	5520	ug/Kg	5000	11/9/2012 18:26
trans-1,3-Dichloropropene	ND	U	476	5520	ug/Kg	5000	11/9/2012 18:26
Diisopropyl Ether	ND	U	1620	5520	ug/Kg	5000	11/9/2012 18:26
Ethyl Benzene	ND	U	484	5520	ug/Kg	5000	11/9/2012 18:26
Hexachlorobutadiene	ND	U	437	5520	ug/Kg	5000	11/9/2012 18:26
Isopropylbenzene (Cumene)	ND	U	480	5520	ug/Kg	5000	11/9/2012 18:26
Methyl iodide	ND	U	635	5520	ug/Kg	5000	11/9/2012 18:26
Methylene chloride	ND	U	839	27600	ug/Kg	5000	11/9/2012 18:26
Naphthalene	ND	U	472	5520	ug/Kg	5000	11/9/2012 18:26
Styrene	ND	U	563	5520	ug/Kg	5000	11/9/2012 18:26
Tetrachloroethene	**112000**		855	5520	ug/Kg	5000	11/9/2012 18:26
Toluene	ND	U	734	5520	ug/Kg	5000	11/9/2012 18:26
Trichloroethene	**1770**	J	690	5520	ug/Kg	5000	11/9/2012 18:26
Trichlorofluoromethane	ND	U	756	5520	ug/Kg	5000	11/9/2012 18:26
Vinyl chloride	ND	U	684	5520	ug/Kg	5000	11/9/2012 18:26
Xylene (total)	ND	U	1000	11000	ug/Kg	5000	11/9/2012 18:26
cis-1,2-Dichloroethene	ND	U	750	5520	ug/Kg	5000	11/9/2012 18:26
m,p-Xylene	ND	U	1000	11000	ug/Kg	5000	11/9/2012 18:26
n-Propylbenzene	ND	U	624	5520	ug/Kg	5000	11/9/2012 18:26
o-Xylene	ND	U	482	5520	ug/Kg	5000	11/9/2012 18:26
sec-Butylbenzene	ND	U	618	5520	ug/Kg	5000	11/9/2012 18:26
tert-Butyl methyl ether (MTBE)	ND	U	795	5520	ug/Kg	5000	11/9/2012 18:26
tert-Butylbenzene	ND	U	472	5520	ug/Kg	5000	11/9/2012 18:26
trans-1,2-Dichloroethene	ND	U	1230	5520	ug/Kg	5000	11/9/2012 18:26
trans-1,4-Dichloro-2-butene	ND	U	2280	27600	ug/Kg	5000	11/9/2012 18:26
Surrogates							
1,2-Dichloroethane-d4	100			55.0-173	%	5000	11/9/2012 18:26
4-Bromofluorobenzene	105			23.0-141	%	5000	11/9/2012 18:26
Toluene d8	101			57.0-134	%	5000	11/9/2012 18:26

Batch Information

Analytical Batch: **VMS2728**
Analytical Method: **SW-846 8260B**
Instrument: **MSD8**
Analyst: **DVO**

Prep Batch: **VXX4327**
Prep Method: **SW-846 5035 SM**
Prep Date/Time: **11/06/2012 16:21**
Prep Initial Wt./Vol.: **5.97 g**
Prep Extract Vol: **5 mL**

Print Date: 11/28/2012

N.C. Certification # 481

Results of **SB44-6-7**

Client Sample ID: **SB44-6-7**
Client Project ID: **2012.0009**
Lab Sample ID: 31203610049-D
Lab Project ID: 31203610

Collection Date: 11/01/2012 15:25
Received Date: 11/02/2012 14:00
Matrix: Soil-Solid as dry weight
Solids (%): 78.40

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	U	1970	19000	ug/Kg	20000	11/12/2012 17:21
1,1,1-Trichloroethane	ND	U	2330	19000	ug/Kg	20000	11/12/2012 17:21
1,1,2,2-Tetrachloroethane	ND	U	2960	19000	ug/Kg	20000	11/12/2012 17:21
1,1,2-Trichloroethane	ND	U	2390	19000	ug/Kg	20000	11/12/2012 17:21
1,1-Dichloroethane	ND	U	3130	19000	ug/Kg	20000	11/12/2012 17:21
1,1-Dichloroethene	ND	U	4020	19000	ug/Kg	20000	11/12/2012 17:21
1,1-Dichloropropene	ND	U	1640	19000	ug/Kg	20000	11/12/2012 17:21
1,2,3-Trichlorobenzene	ND	U	2080	19000	ug/Kg	20000	11/12/2012 17:21
1,2,3-Trichloropropane	ND	U	4020	19000	ug/Kg	20000	11/12/2012 17:21
1,2,4-Trichlorobenzene	ND	U	1730	19000	ug/Kg	20000	11/12/2012 17:21
1,2,4-Trimethylbenzene	ND	U	1820	19000	ug/Kg	20000	11/12/2012 17:21
1,2-Dibromo-3-chloropropane	ND	U	14200	94800	ug/Kg	20000	11/12/2012 17:21
1,2-Dibromoethane	ND	U	2270	19000	ug/Kg	20000	11/12/2012 17:21
1,2-Dichlorobenzene	ND	U	2600	19000	ug/Kg	20000	11/12/2012 17:21
1,2-Dichloroethane	ND	U	3160	19000	ug/Kg	20000	11/12/2012 17:21
1,2-Dichloropropane	ND	U	3090	19000	ug/Kg	20000	11/12/2012 17:21
1,3,5-Trimethylbenzene	ND	U	2140	19000	ug/Kg	20000	11/12/2012 17:21
1,3-Dichlorobenzene	ND	U	1950	19000	ug/Kg	20000	11/12/2012 17:21
1,3-Dichloropropane	ND	U	2460	19000	ug/Kg	20000	11/12/2012 17:21
1,4-Dichlorobenzene	ND	U	2460	19000	ug/Kg	20000	11/12/2012 17:21
2,2-Dichloropropane	ND	U	7450	19000	ug/Kg	20000	11/12/2012 17:21
2-Butanone	ND	U	13700	474000	ug/Kg	20000	11/12/2012 17:21
2-Chlorotoluene	ND	U	2140	19000	ug/Kg	20000	11/12/2012 17:21
2-Hexanone	ND	U	13800	94800	ug/Kg	20000	11/12/2012 17:21
4-Chlorotoluene	ND	U	2370	19000	ug/Kg	20000	11/12/2012 17:21
4-Isopropyltoluene	ND	U	1460	19000	ug/Kg	20000	11/12/2012 17:21
4-Methyl-2-pentanone	ND	U	10600	94800	ug/Kg	20000	11/12/2012 17:21
Acetone	ND	U	16400	474000	ug/Kg	20000	11/12/2012 17:21
Benzene	ND	U	2140	19000	ug/Kg	20000	11/12/2012 17:21
Bromobenzene	ND	U	2080	19000	ug/Kg	20000	11/12/2012 17:21
Bromochloromethane	ND	U	4000	19000	ug/Kg	20000	11/12/2012 17:21
Bromodichloromethane	ND	U	2080	19000	ug/Kg	20000	11/12/2012 17:21
Bromoform	ND	U	1850	19000	ug/Kg	20000	11/12/2012 17:21
Bromomethane	ND	U	4490	19000	ug/Kg	20000	11/12/2012 17:21
n-Butylbenzene	ND	U	1460	19000	ug/Kg	20000	11/12/2012 17:21
Carbon disulfide	ND	U	2010	19000	ug/Kg	20000	11/12/2012 17:21
Carbon tetrachloride	ND	U	1910	19000	ug/Kg	20000	11/12/2012 17:21
Chlorobenzene	ND	U	2200	19000	ug/Kg	20000	11/12/2012 17:21
Chloroethane	ND	U	5890	19000	ug/Kg	20000	11/12/2012 17:21
Chloroform	ND	U	2630	19000	ug/Kg	20000	11/12/2012 17:21
Chloromethane	ND	U	8490	19000	ug/Kg	20000	11/12/2012 17:21
Dibromochloromethane	ND	U	2540	19000	ug/Kg	20000	11/12/2012 17:21
Dibromomethane	ND	U	3180	19000	ug/Kg	20000	11/12/2012 17:21

Print Date: 11/28/2012

N.C. Certification # 481

Results of **SB44-6-7**

Client Sample ID: **SB44-6-7**
Client Project ID: **2012.0009**
Lab Sample ID: 31203610049-D
Lab Project ID: 31203610

Collection Date: 11/01/2012 15:25
Received Date: 11/02/2012 14:00
Matrix: Soil-Solid as dry weight
Solids (%): 78.40

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
Dichlorodifluoromethane	ND	U	3240	94800	ug/Kg	20000	11/12/2012 17:21
cis-1,3-Dichloropropene	ND	U	1450	19000	ug/Kg	20000	11/12/2012 17:21
trans-1,3-Dichloropropene	ND	U	1630	19000	ug/Kg	20000	11/12/2012 17:21
Diisopropyl Ether	ND	U	5570	19000	ug/Kg	20000	11/12/2012 17:21
Ethyl Benzene	**3600**	J	1660	19000	ug/Kg	20000	11/12/2012 17:21
Hexachlorobutadiene	ND	U	1500	19000	ug/Kg	20000	11/12/2012 17:21
Isopropylbenzene (Cumene)	ND	U	1650	19000	ug/Kg	20000	11/12/2012 17:21
Methyl iodide	ND	U	2180	19000	ug/Kg	20000	11/12/2012 17:21
Methylene chloride	ND	U	2880	94800	ug/Kg	20000	11/12/2012 17:21
Naphthalene	ND	U	1620	19000	ug/Kg	20000	11/12/2012 17:21
Styrene	ND	U	1930	19000	ug/Kg	20000	11/12/2012 17:21
Tetrachloroethene	**742000**		2940	19000	ug/Kg	20000	11/12/2012 17:21
Toluene	ND	U	2520	19000	ug/Kg	20000	11/12/2012 17:21
Trichloroethene	**5500**	J	2370	19000	ug/Kg	20000	11/12/2012 17:21
Trichlorofluoromethane	ND	U	2600	19000	ug/Kg	20000	11/12/2012 17:21
Vinyl chloride	ND	U	2350	19000	ug/Kg	20000	11/12/2012 17:21
Xylene (total)	**13100**	J	3450	37900	ug/Kg	20000	11/12/2012 17:21
cis-1,2-Dichloroethene	ND	U	2580	19000	ug/Kg	20000	11/12/2012 17:21
m,p-Xylene	**9480**	J	3450	37900	ug/Kg	20000	11/12/2012 17:21
n-Propylbenzene	ND	U	2140	19000	ug/Kg	20000	11/12/2012 17:21
o-Xylene	**3600**	J	1660	19000	ug/Kg	20000	11/12/2012 17:21
sec-Butylbenzene	ND	U	2120	19000	ug/Kg	20000	11/12/2012 17:21
tert-Butyl methyl ether (MTBE)	ND	U	2730	19000	ug/Kg	20000	11/12/2012 17:21
tert-Butylbenzene	ND	U	1620	19000	ug/Kg	20000	11/12/2012 17:21
trans-1,2-Dichloroethene	ND	U	4230	19000	ug/Kg	20000	11/12/2012 17:21
trans-1,4-Dichloro-2-butene	ND	U	7850	94800	ug/Kg	20000	11/12/2012 17:21
Surrogates							
1,2-Dichloroethane-d4	116			55.0-173	%	20000	11/12/2012 17:21
4-Bromofluorobenzene	97.0			23.0-141	%	20000	11/12/2012 17:21
Toluene d8	109			57.0-134	%	20000	11/12/2012 17:21

Batch Information

Analytical Batch: **VMS2730**
Analytical Method: **SW-846 8260B**
Instrument: **MSD8**
Analyst: **BWS**

Prep Batch: **VXX4329**
Prep Method: **SW-846 5035 SM**
Prep Date/Time: **11/06/2012 16:23**
Prep Initial Wt./Vol.: **6.73 g**
Prep Extract Vol: **5 mL**

Print Date: 11/28/2012

N.C. Certification # 481

Results of **SB44-7-8**

Client Sample ID: **SB44-7-8**
Client Project ID: **2012.0009**
Lab Sample ID: 31203610050-D
Lab Project ID: 31203610

Collection Date: 11/01/2012 15:30
Received Date: 11/02/2012 14:00
Matrix: Soil-Solid as dry weight
Solids (%): 77.80

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	U	224	2160	ug/Kg	2000	11/9/2012 17:13
1,1,1-Trichloroethane	**5760**		265	2160	ug/Kg	2000	11/9/2012 17:13
1,1,2,2-Tetrachloroethane	ND	U	336	2160	ug/Kg	2000	11/9/2012 17:13
1,1,2-Trichloroethane	ND	U	272	2160	ug/Kg	2000	11/9/2012 17:13
1,1-Dichloroethane	ND	U	356	2160	ug/Kg	2000	11/9/2012 17:13
1,1-Dichloroethene	**2260**		457	2160	ug/Kg	2000	11/9/2012 17:13
1,1-Dichloropropene	ND	U	186	2160	ug/Kg	2000	11/9/2012 17:13
1,2,3-Trichlorobenzene	ND	U	237	2160	ug/Kg	2000	11/9/2012 17:13
1,2,3-Trichloropropane	ND	U	457	2160	ug/Kg	2000	11/9/2012 17:13
1,2,4-Trichlorobenzene	ND	U	197	2160	ug/Kg	2000	11/9/2012 17:13
1,2,4-Trimethylbenzene	ND	U	207	2160	ug/Kg	2000	11/9/2012 17:13
1,2-Dibromo-3-chloropropane	ND	U	1610	10800	ug/Kg	2000	11/9/2012 17:13
1,2-Dibromoethane	ND	U	259	2160	ug/Kg	2000	11/9/2012 17:13
1,2-Dichlorobenzene	ND	U	295	2160	ug/Kg	2000	11/9/2012 17:13
1,2-Dichloroethane	ND	U	360	2160	ug/Kg	2000	11/9/2012 17:13
1,2-Dichloropropane	ND	U	352	2160	ug/Kg	2000	11/9/2012 17:13
1,3,5-Trimethylbenzene	ND	U	244	2160	ug/Kg	2000	11/9/2012 17:13
1,3-Dichlorobenzene	ND	U	222	2160	ug/Kg	2000	11/9/2012 17:13
1,3-Dichloropropane	ND	U	280	2160	ug/Kg	2000	11/9/2012 17:13
1,4-Dichlorobenzene	ND	U	280	2160	ug/Kg	2000	11/9/2012 17:13
2,2-Dichloropropane	ND	U	848	2160	ug/Kg	2000	11/9/2012 17:13
2-Butanone	ND	U	1560	53900	ug/Kg	2000	11/9/2012 17:13
2-Chlorotoluene	ND	U	244	2160	ug/Kg	2000	11/9/2012 17:13
2-Hexanone	ND	U	1570	10800	ug/Kg	2000	11/9/2012 17:13
4-Chlorotoluene	ND	U	270	2160	ug/Kg	2000	11/9/2012 17:13
4-Isopropyltoluene	ND	U	166	2160	ug/Kg	2000	11/9/2012 17:13
4-Methyl-2-pentanone	ND	U	1200	10800	ug/Kg	2000	11/9/2012 17:13
Acetone	ND	U	1860	53900	ug/Kg	2000	11/9/2012 17:13
Benzene	ND	U	244	2160	ug/Kg	2000	11/9/2012 17:13
Bromobenzene	ND	U	237	2160	ug/Kg	2000	11/9/2012 17:13
Bromochloromethane	ND	U	455	2160	ug/Kg	2000	11/9/2012 17:13
Bromodichloromethane	ND	U	237	2160	ug/Kg	2000	11/9/2012 17:13
Bromoform	ND	U	210	2160	ug/Kg	2000	11/9/2012 17:13
Bromomethane	ND	U	511	2160	ug/Kg	2000	11/9/2012 17:13
n-Butylbenzene	ND	U	166	2160	ug/Kg	2000	11/9/2012 17:13
Carbon disulfide	ND	U	229	2160	ug/Kg	2000	11/9/2012 17:13
Carbon tetrachloride	ND	U	218	2160	ug/Kg	2000	11/9/2012 17:13
Chlorobenzene	ND	U	250	2160	ug/Kg	2000	11/9/2012 17:13
Chloroethane	ND	U	671	2160	ug/Kg	2000	11/9/2012 17:13
Chloroform	ND	U	300	2160	ug/Kg	2000	11/9/2012 17:13
Chloromethane	ND	U	966	2160	ug/Kg	2000	11/9/2012 17:13
Dibromochloromethane	ND	U	289	2160	ug/Kg	2000	11/9/2012 17:13
Dibromomethane	ND	U	362	2160	ug/Kg	2000	11/9/2012 17:13

Print Date: 11/28/2012

N.C. Certification # 481

Results of **SB44-7-8**

Client Sample ID: **SB44-7-8**
Client Project ID: **2012.0009**
Lab Sample ID: 31203610050-D
Lab Project ID: 31203610

Collection Date: 11/01/2012 15:30
Received Date: 11/02/2012 14:00
Matrix: Soil-Solid as dry weight
Solids (%): 77.80

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
Dichlorodifluoromethane	ND	U	369	10800	ug/Kg	2000	11/9/2012 17:13
cis-1,3-Dichloropropene	ND	U	165	2160	ug/Kg	2000	11/9/2012 17:13
trans-1,3-Dichloropropene	ND	U	186	2160	ug/Kg	2000	11/9/2012 17:13
Diisopropyl Ether	ND	U	634	2160	ug/Kg	2000	11/9/2012 17:13
Ethyl Benzene	**302**	J	189	2160	ug/Kg	2000	11/9/2012 17:13
Hexachlorobutadiene	ND	U	171	2160	ug/Kg	2000	11/9/2012 17:13
Isopropylbenzene (Cumene)	ND	U	187	2160	ug/Kg	2000	11/9/2012 17:13
Methyl iodide	ND	U	248	2160	ug/Kg	2000	11/9/2012 17:13
Methylene chloride	ND	U	328	10800	ug/Kg	2000	11/9/2012 17:13
Naphthalene	ND	U	184	2160	ug/Kg	2000	11/9/2012 17:13
Styrene	ND	U	220	2160	ug/Kg	2000	11/9/2012 17:13
Tetrachloroethene	**48500**		334	2160	ug/Kg	2000	11/9/2012 17:13
Toluene	ND	U	287	2160	ug/Kg	2000	11/9/2012 17:13
Trichloroethene	**1250**	J	270	2160	ug/Kg	2000	11/9/2012 17:13
Trichlorofluoromethane	ND	U	295	2160	ug/Kg	2000	11/9/2012 17:13
Vinyl chloride	ND	U	267	2160	ug/Kg	2000	11/9/2012 17:13
Xylene (total)	**820**	J	393	4310	ug/Kg	2000	11/9/2012 17:13
cis-1,2-Dichloroethene	ND	U	293	2160	ug/Kg	2000	11/9/2012 17:13
m,p-Xylene	**820**	J	393	4310	ug/Kg	2000	11/9/2012 17:13
n-Propylbenzene	ND	U	244	2160	ug/Kg	2000	11/9/2012 17:13
o-Xylene	ND	U	189	2160	ug/Kg	2000	11/9/2012 17:13
sec-Butylbenzene	ND	U	242	2160	ug/Kg	2000	11/9/2012 17:13
tert-Butyl methyl ether (MTBE)	ND	U	311	2160	ug/Kg	2000	11/9/2012 17:13
tert-Butylbenzene	ND	U	184	2160	ug/Kg	2000	11/9/2012 17:13
trans-1,2-Dichloroethene	ND	U	481	2160	ug/Kg	2000	11/9/2012 17:13
trans-1,4-Dichloro-2-butene	ND	U	893	10800	ug/Kg	2000	11/9/2012 17:13
Surrogates							
1,2-Dichloroethane-d4	111			55.0-173	%	2000	11/9/2012 17:13
4-Bromofluorobenzene	100			23.0-141	%	2000	11/9/2012 17:13
Toluene d8	102			57.0-134	%	2000	11/9/2012 17:13

Batch Information

Analytical Batch: **VMS2728**
Analytical Method: **SW-846 8260B**
Instrument: **MSD8**
Analyst: **DVO**

Prep Batch: **VXX4327**
Prep Method: **SW-846 5035 SM**
Prep Date/Time: **11/06/2012 16:24**
Prep Initial Wt./Vol.: **5.96 g**
Prep Extract Vol: **5 mL**

Print Date: 11/28/2012

N.C. Certification # 481

Results of **SB45-0-1**

Client Sample ID: **SB45-0-1**
Client Project ID: **2012.0009**
Lab Sample ID: 31203610051-A
Lab Project ID: 31203610

Collection Date: 11/01/2012 16:15
Received Date: 11/02/2012 14:00
Matrix: Soil-Solid as dry weight
Solids (%): 89.10

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	U	0.544	3.83	ug/Kg	1	11/13/2012 12:13
1,1,1-Trichloroethane	**1.28**	J	0.578	3.83	ug/Kg	1	11/13/2012 12:13
1,1,2,2-Tetrachloroethane	ND	U	0.897	3.83	ug/Kg	1	11/13/2012 12:13
1,1,2-Trichloroethane	ND	U	0.798	3.83	ug/Kg	1	11/13/2012 12:13
1,1-Dichloroethane	ND	U	0.413	3.83	ug/Kg	1	11/13/2012 12:13
1,1-Dichloroethene	ND	U	0.890	3.83	ug/Kg	1	11/13/2012 12:13
1,1-Dichloropropene	ND	U	0.518	3.83	ug/Kg	1	11/13/2012 12:13
1,2,3-Trichlorobenzene	ND	U	0.638	3.83	ug/Kg	1	11/13/2012 12:13
1,2,3-Trichloropropane	ND	U	0.790	3.83	ug/Kg	1	11/13/2012 12:13
1,2,4-Trichlorobenzene	ND	U	0.559	3.83	ug/Kg	1	11/13/2012 12:13
1,2,4-Trimethylbenzene	ND	U	0.489	3.83	ug/Kg	1	11/13/2012 12:13
1,2-Dibromo-3-chloropropane	ND	U	5.68	23.0	ug/Kg	1	11/13/2012 12:13
1,2-Dibromoethane	ND	U	1.00	3.83	ug/Kg	1	11/13/2012 12:13
1,2-Dichlorobenzene	ND	U	0.545	3.83	ug/Kg	1	11/13/2012 12:13
1,2-Dichloroethane	ND	U	0.700	3.83	ug/Kg	1	11/13/2012 12:13
1,2-Dichloropropane	ND	U	0.882	3.83	ug/Kg	1	11/13/2012 12:13
1,3,5-Trimethylbenzene	ND	U	0.466	3.83	ug/Kg	1	11/13/2012 12:13
1,3-Dichlorobenzene	ND	U	0.551	3.83	ug/Kg	1	11/13/2012 12:13
1,3-Dichloropropane	ND	U	0.674	3.83	ug/Kg	1	11/13/2012 12:13
1,4-Dichlorobenzene	ND	U	0.518	3.83	ug/Kg	1	11/13/2012 12:13
2,2-Dichloropropane	ND	U	0.566	3.83	ug/Kg	1	11/13/2012 12:13
2-Butanone	**9.96**	J	2.59	19.2	ug/Kg	1	11/13/2012 12:13
2-Chlorotoluene	ND	U	0.719	3.83	ug/Kg	1	11/13/2012 12:13
2-Hexanone	ND	U	2.47	9.59	ug/Kg	1	11/13/2012 12:13
4-Chlorotoluene	ND	U	0.580	3.83	ug/Kg	1	11/13/2012 12:13
4-Isopropyltoluene	ND	U	0.495	3.83	ug/Kg	1	11/13/2012 12:13
4-Methyl-2-pentanone	ND	U	2.87	9.59	ug/Kg	1	11/13/2012 12:13
Acetone	**64.6**		3.08	38.3	ug/Kg	1	11/13/2012 12:13
Benzene	ND	U	0.545	3.83	ug/Kg	1	11/13/2012 12:13
Bromobenzene	ND	U	0.535	3.83	ug/Kg	1	11/13/2012 12:13
Bromochloromethane	ND	U	0.721	3.83	ug/Kg	1	11/13/2012 12:13
Bromodichloromethane	ND	U	0.540	3.83	ug/Kg	1	11/13/2012 12:13
Bromoform	ND	U	0.555	3.83	ug/Kg	1	11/13/2012 12:13
Bromomethane	ND	U	1.11	3.83	ug/Kg	1	11/13/2012 12:13
n-Butylbenzene	ND	U	0.504	3.83	ug/Kg	1	11/13/2012 12:13
Carbon disulfide	**3.98**		0.401	3.83	ug/Kg	1	11/13/2012 12:13
Carbon tetrachloride	ND	U	0.436	3.83	ug/Kg	1	11/13/2012 12:13
Chlorobenzene	ND	U	0.535	3.83	ug/Kg	1	11/13/2012 12:13
Chloroethane	ND	U	0.767	3.83	ug/Kg	1	11/13/2012 12:13
Chloroform	ND	U	0.489	3.83	ug/Kg	1	11/13/2012 12:13
Chloromethane	ND	U	1.10	3.83	ug/Kg	1	11/13/2012 12:13
Dibromochloromethane	ND	U	0.851	3.83	ug/Kg	1	11/13/2012 12:13
Dibromomethane	ND	U	0.676	3.83	ug/Kg	1	11/13/2012 12:13

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Results of **SB45-0-1**

Client Sample ID: **SB45-0-1**
Client Project ID: **2012.0009**
Lab Sample ID: 31203610051-A
Lab Project ID: 31203610

Collection Date: 11/01/2012 16:15
Received Date: 11/02/2012 14:00
Matrix: Soil-Solid as dry weight
Solids (%): 89.10

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
Dichlorodifluoromethane	ND	U	0.805	3.83	ug/Kg	1	11/13/2012 12:13
cis-1,3-Dichloropropene	ND	U	0.790	3.83	ug/Kg	1	11/13/2012 12:13
trans-1,3-Dichloropropene	ND	U	0.724	3.83	ug/Kg	1	11/13/2012 12:13
Diisopropyl Ether	ND	U	0.630	3.83	ug/Kg	1	11/13/2012 12:13
Ethyl Benzene	ND	U	0.541	3.83	ug/Kg	1	11/13/2012 12:13
Hexachlorobutadiene	ND	U	0.527	3.83	ug/Kg	1	11/13/2012 12:13
Isopropylbenzene (Cumene)	ND	U	0.477	3.83	ug/Kg	1	11/13/2012 12:13
Methyl iodide	ND	U	0.587	3.83	ug/Kg	1	11/13/2012 12:13
Methylene chloride	**0.920**	J	0.805	15.3	ug/Kg	1	11/13/2012 12:13
Naphthalene	ND	U	0.697	3.83	ug/Kg	1	11/13/2012 12:13
Styrene	ND	U	0.442	3.83	ug/Kg	1	11/13/2012 12:13
Tetrachloroethene	**19.9**		0.576	3.83	ug/Kg	1	11/13/2012 12:13
Toluene	ND	U	0.528	3.83	ug/Kg	1	11/13/2012 12:13
Trichloroethene	ND	U	0.646	3.83	ug/Kg	1	11/13/2012 12:13
Trichlorofluoromethane	ND	U	0.775	3.83	ug/Kg	1	11/13/2012 12:13
Vinyl chloride	ND	U	0.729	3.83	ug/Kg	1	11/13/2012 12:13
Xylene (total)	ND	U	1.36	7.67	ug/Kg	1	11/13/2012 12:13
cis-1,2-Dichloroethene	ND	U	0.469	3.83	ug/Kg	1	11/13/2012 12:13
m,p-Xylene	ND	U	1.30	7.67	ug/Kg	1	11/13/2012 12:13
n-Propylbenzene	ND	U	0.561	3.83	ug/Kg	1	11/13/2012 12:13
o-Xylene	ND	U	0.587	3.83	ug/Kg	1	11/13/2012 12:13
sec-Butylbenzene	ND	U	0.460	3.83	ug/Kg	1	11/13/2012 12:13
tert-Butyl methyl ether (MTBE)	ND	U	0.610	3.83	ug/Kg	1	11/13/2012 12:13
tert-Butylbenzene	ND	U	0.516	3.83	ug/Kg	1	11/13/2012 12:13
trans-1,2-Dichloroethene	ND	U	0.560	3.83	ug/Kg	1	11/13/2012 12:13
trans-1,4-Dichloro-2-butene	ND	U	3.22	19.2	ug/Kg	1	11/13/2012 12:13
Surrogates							
1,2-Dichloroethane-d4	113			55.0-173	%	1	11/13/2012 12:13
4-Bromofluorobenzene	94.0			23.0-141	%	1	11/13/2012 12:13
Toluene d8	101			57.0-134	%	1	11/13/2012 12:13

Batch Information

Analytical Batch: **VMS2732**
Analytical Method: **SW-846 8260B**
Instrument: **MSD9**
Analyst: **DVO**

Prep Batch: **VXX4321**
Prep Method: **SW-846 5035 SL**
Prep Date/Time: **11/06/2012 16:26**
Prep Initial Wt./Vol.: **7.32 g**
Prep Extract Vol: **5 mL**

Print Date: 11/28/2012

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Results of **SB45-1-2**

Client Sample ID: **SB45-1-2**
Client Project ID: **2012.0009**
Lab Sample ID: 31203610052-D
Lab Project ID: 31203610

Collection Date: 11/01/2012 16:20
Received Date: 11/02/2012 14:00
Matrix: Soil-Solid as dry weight
Solids (%): 91.60

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	U	4.68	45.0	ug/Kg	50	11/12/2012 14:05
1,1,1-Trichloroethane	ND	U	5.53	45.0	ug/Kg	50	11/12/2012 14:05
1,1,2,2-Tetrachloroethane	ND	U	7.02	45.0	ug/Kg	50	11/12/2012 14:05
1,1,2-Trichloroethane	ND	U	5.67	45.0	ug/Kg	50	11/12/2012 14:05
1,1-Dichloroethane	ND	U	7.42	45.0	ug/Kg	50	11/12/2012 14:05
1,1-Dichloroethene	ND	U	9.54	45.0	ug/Kg	50	11/12/2012 14:05
1,1-Dichloropropene	ND	U	3.88	45.0	ug/Kg	50	11/12/2012 14:05
1,2,3-Trichlorobenzene	ND	U	4.95	45.0	ug/Kg	50	11/12/2012 14:05
1,2,3-Trichloropropane	ND	U	9.54	45.0	ug/Kg	50	11/12/2012 14:05
1,2,4-Trichlorobenzene	ND	U	4.11	45.0	ug/Kg	50	11/12/2012 14:05
1,2,4-Trimethylbenzene	ND	U	4.32	45.0	ug/Kg	50	11/12/2012 14:05
1,2-Dibromo-3-chloropropane	ND	U	33.6	225	ug/Kg	50	11/12/2012 14:05
1,2-Dibromoethane	ND	U	5.40	45.0	ug/Kg	50	11/12/2012 14:05
1,2-Dichlorobenzene	ND	U	6.16	45.0	ug/Kg	50	11/12/2012 14:05
1,2-Dichloroethane	ND	U	7.51	45.0	ug/Kg	50	11/12/2012 14:05
1,2-Dichloropropane	ND	U	7.33	45.0	ug/Kg	50	11/12/2012 14:05
1,3,5-Trimethylbenzene	ND	U	5.08	45.0	ug/Kg	50	11/12/2012 14:05
1,3-Dichlorobenzene	ND	U	4.63	45.0	ug/Kg	50	11/12/2012 14:05
1,3-Dichloropropane	ND	U	5.85	45.0	ug/Kg	50	11/12/2012 14:05
1,4-Dichlorobenzene	ND	U	5.85	45.0	ug/Kg	50	11/12/2012 14:05
2,2-Dichloropropane	ND	U	17.7	45.0	ug/Kg	50	11/12/2012 14:05
2-Butanone	ND	U	32.5	1120	ug/Kg	50	11/12/2012 14:05
2-Chlorotoluene	ND	U	5.08	45.0	ug/Kg	50	11/12/2012 14:05
2-Hexanone	ND	U	32.7	225	ug/Kg	50	11/12/2012 14:05
4-Chlorotoluene	ND	U	5.62	45.0	ug/Kg	50	11/12/2012 14:05
4-Isopropyltoluene	ND	U	3.46	45.0	ug/Kg	50	11/12/2012 14:05
4-Methyl-2-pentanone	ND	U	25.1	225	ug/Kg	50	11/12/2012 14:05
Acetone	ND	U	38.9	1120	ug/Kg	50	11/12/2012 14:05
Benzene	ND	U	5.08	45.0	ug/Kg	50	11/12/2012 14:05
Bromobenzene	ND	U	4.95	45.0	ug/Kg	50	11/12/2012 14:05
Bromochloromethane	ND	U	9.49	45.0	ug/Kg	50	11/12/2012 14:05
Bromodichloromethane	ND	U	4.95	45.0	ug/Kg	50	11/12/2012 14:05
Bromoform	ND	U	4.38	45.0	ug/Kg	50	11/12/2012 14:05
Bromomethane	ND	U	10.7	45.0	ug/Kg	50	11/12/2012 14:05
n-Butylbenzene	ND	U	3.46	45.0	ug/Kg	50	11/12/2012 14:05
Carbon disulfide	ND	U	4.77	45.0	ug/Kg	50	11/12/2012 14:05
Carbon tetrachloride	ND	U	4.54	45.0	ug/Kg	50	11/12/2012 14:05
Chlorobenzene	ND	U	5.22	45.0	ug/Kg	50	11/12/2012 14:05
Chloroethane	ND	U	14.0	45.0	ug/Kg	50	11/12/2012 14:05
Chloroform	ND	U	6.25	45.0	ug/Kg	50	11/12/2012 14:05
Chloromethane	ND	U	20.2	45.0	ug/Kg	50	11/12/2012 14:05
Dibromochloromethane	ND	U	6.03	45.0	ug/Kg	50	11/12/2012 14:05
Dibromomethane	ND	U	7.56	45.0	ug/Kg	50	11/12/2012 14:05

Print Date: 11/28/2012

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Results of **SB45-1-2**

Client Sample ID: **SB45-1-2**
Client Project ID: **2012.0009**
Lab Sample ID: 31203610052-D
Lab Project ID: 31203610

Collection Date: 11/01/2012 16:20
Received Date: 11/02/2012 14:00
Matrix: Soil-Solid as dry weight
Solids (%): 91.60

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
Dichlorodifluoromethane	ND	U	7.69	225	ug/Kg	50	11/12/2012 14:05
cis-1,3-Dichloropropene	ND	U	3.45	45.0	ug/Kg	50	11/12/2012 14:05
trans-1,3-Dichloropropene	ND	U	3.88	45.0	ug/Kg	50	11/12/2012 14:05
Diisopropyl Ether	ND	U	13.2	45.0	ug/Kg	50	11/12/2012 14:05
Ethyl Benzene	ND	U	3.95	45.0	ug/Kg	50	11/12/2012 14:05
Hexachlorobutadiene	ND	U	3.56	45.0	ug/Kg	50	11/12/2012 14:05
Isopropylbenzene (Cumene)	ND	U	3.91	45.0	ug/Kg	50	11/12/2012 14:05
Methyl iodide	ND	U	5.17	45.0	ug/Kg	50	11/12/2012 14:05
Methylene chloride	ND	U	6.84	225	ug/Kg	50	11/12/2012 14:05
Naphthalene	ND	U	3.85	45.0	ug/Kg	50	11/12/2012 14:05
Styrene	ND	U	4.59	45.0	ug/Kg	50	11/12/2012 14:05
Tetrachloroethene	**76.9**		6.97	45.0	ug/Kg	50	11/12/2012 14:05
Toluene	ND	U	5.98	45.0	ug/Kg	50	11/12/2012 14:05
Trichloroethene	ND	U	5.62	45.0	ug/Kg	50	11/12/2012 14:05
Trichlorofluoromethane	ND	U	6.16	45.0	ug/Kg	50	11/12/2012 14:05
Vinyl chloride	ND	U	5.58	45.0	ug/Kg	50	11/12/2012 14:05
Xylene (total)	ND	U	8.19	90.0	ug/Kg	50	11/12/2012 14:05
cis-1,2-Dichloroethene	ND	U	6.12	45.0	ug/Kg	50	11/12/2012 14:05
m,p-Xylene	ND	U	8.19	90.0	ug/Kg	50	11/12/2012 14:05
n-Propylbenzene	ND	U	5.08	45.0	ug/Kg	50	11/12/2012 14:05
o-Xylene	ND	U	3.93	45.0	ug/Kg	50	11/12/2012 14:05
sec-Butylbenzene	ND	U	5.04	45.0	ug/Kg	50	11/12/2012 14:05
tert-Butyl methyl ether (MTBE)	ND	U	6.48	45.0	ug/Kg	50	11/12/2012 14:05
tert-Butylbenzene	ND	U	3.85	45.0	ug/Kg	50	11/12/2012 14:05
trans-1,2-Dichloroethene	ND	U	10.0	45.0	ug/Kg	50	11/12/2012 14:05
trans-1,4-Dichloro-2-butene	ND	U	18.6	225	ug/Kg	50	11/12/2012 14:05
Surrogates							
1,2-Dichloroethane-d4	106			55.0-173	%	50	11/12/2012 14:05
4-Bromofluorobenzene	102			23.0-141	%	50	11/12/2012 14:05
Toluene d8	100			57.0-134	%	50	11/12/2012 14:05

Batch Information

Analytical Batch: **VMS2730**
Analytical Method: **SW-846 8260B**
Instrument: **MSD8**
Analyst: **BWS**

Prep Batch: **VXX4329**
Prep Method: **SW-846 5035 SM**
Prep Date/Time: **11/06/2012 16:29**
Prep Initial Wt./Vol.: **6.07 g**
Prep Extract Vol: **5 mL**

Print Date: 11/28/2012

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Results of **SB45-2-3**

Client Sample ID: **SB45-2-3**
Client Project ID: **2012.0009**
Lab Sample ID: 31203610053-D
Lab Project ID: 31203610

Collection Date: 11/01/2012 16:25
Received Date: 11/02/2012 14:00
Matrix: Soil-Solid as dry weight
Solids (%): 91.00

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	U	4.01	38.5	ug/Kg	50	11/12/2012 14:30
1,1,1-Trichloroethane	ND	U	4.74	38.5	ug/Kg	50	11/12/2012 14:30
1,1,2,2-Tetrachloroethane	ND	U	6.01	38.5	ug/Kg	50	11/12/2012 14:30
1,1,2-Trichloroethane	ND	U	4.86	38.5	ug/Kg	50	11/12/2012 14:30
1,1-Dichloroethane	ND	U	6.36	38.5	ug/Kg	50	11/12/2012 14:30
1,1-Dichloroethene	ND	U	8.17	38.5	ug/Kg	50	11/12/2012 14:30
1,1-Dichloropropene	ND	U	3.33	38.5	ug/Kg	50	11/12/2012 14:30
1,2,3-Trichlorobenzene	ND	U	4.24	38.5	ug/Kg	50	11/12/2012 14:30
1,2,3-Trichloropropane	ND	U	8.17	38.5	ug/Kg	50	11/12/2012 14:30
1,2,4-Trichlorobenzene	ND	U	3.52	38.5	ug/Kg	50	11/12/2012 14:30
1,2,4-Trimethylbenzene	ND	U	3.70	38.5	ug/Kg	50	11/12/2012 14:30
1,2-Dibromo-3-chloropropane	ND	U	28.8	193	ug/Kg	50	11/12/2012 14:30
1,2-Dibromoethane	ND	U	4.63	38.5	ug/Kg	50	11/12/2012 14:30
1,2-Dichlorobenzene	ND	U	5.28	38.5	ug/Kg	50	11/12/2012 14:30
1,2-Dichloroethane	ND	U	6.44	38.5	ug/Kg	50	11/12/2012 14:30
1,2-Dichloropropane	ND	U	6.28	38.5	ug/Kg	50	11/12/2012 14:30
1,3,5-Trimethylbenzene	ND	U	4.36	38.5	ug/Kg	50	11/12/2012 14:30
1,3-Dichlorobenzene	ND	U	3.97	38.5	ug/Kg	50	11/12/2012 14:30
1,3-Dichloropropane	ND	U	5.01	38.5	ug/Kg	50	11/12/2012 14:30
1,4-Dichlorobenzene	ND	U	5.01	38.5	ug/Kg	50	11/12/2012 14:30
2,2-Dichloropropane	ND	U	15.1	38.5	ug/Kg	50	11/12/2012 14:30
2-Butanone	ND	U	27.9	964	ug/Kg	50	11/12/2012 14:30
2-Chlorotoluene	ND	U	4.36	38.5	ug/Kg	50	11/12/2012 14:30
2-Hexanone	ND	U	28.1	193	ug/Kg	50	11/12/2012 14:30
4-Chlorotoluene	ND	U	4.82	38.5	ug/Kg	50	11/12/2012 14:30
4-Isopropyltoluene	ND	U	2.96	38.5	ug/Kg	50	11/12/2012 14:30
4-Methyl-2-pentanone	ND	U	21.5	193	ug/Kg	50	11/12/2012 14:30
Acetone	ND	U	33.3	964	ug/Kg	50	11/12/2012 14:30
Benzene	ND	U	4.36	38.5	ug/Kg	50	11/12/2012 14:30
Bromobenzene	ND	U	4.24	38.5	ug/Kg	50	11/12/2012 14:30
Bromochloromethane	ND	U	8.13	38.5	ug/Kg	50	11/12/2012 14:30
Bromodichloromethane	ND	U	4.24	38.5	ug/Kg	50	11/12/2012 14:30
Bromoform	ND	U	3.75	38.5	ug/Kg	50	11/12/2012 14:30
Bromomethane	ND	U	9.13	38.5	ug/Kg	50	11/12/2012 14:30
n-Butylbenzene	ND	U	2.96	38.5	ug/Kg	50	11/12/2012 14:30
Carbon disulfide	ND	U	4.09	38.5	ug/Kg	50	11/12/2012 14:30
Carbon tetrachloride	ND	U	3.89	38.5	ug/Kg	50	11/12/2012 14:30
Chlorobenzene	ND	U	4.47	38.5	ug/Kg	50	11/12/2012 14:30
Chloroethane	ND	U	12.0	38.5	ug/Kg	50	11/12/2012 14:30
Chloroform	ND	U	5.36	38.5	ug/Kg	50	11/12/2012 14:30
Chloromethane	ND	U	17.3	38.5	ug/Kg	50	11/12/2012 14:30
Dibromochloromethane	ND	U	5.16	38.5	ug/Kg	50	11/12/2012 14:30
Dibromomethane	ND	U	6.48	38.5	ug/Kg	50	11/12/2012 14:30

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Results of **SB45-2-3**

Client Sample ID: **SB45-2-3**
Client Project ID: **2012.0009**
Lab Sample ID: 31203610053-D
Lab Project ID: 31203610

Collection Date: 11/01/2012 16:25
Received Date: 11/02/2012 14:00
Matrix: Soil-Solid as dry weight
Solids (%): 91.00

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
Dichlorodifluoromethane	ND	U	6.59	193	ug/Kg	50	11/12/2012 14:30
cis-1,3-Dichloropropene	ND	U	2.96	38.5	ug/Kg	50	11/12/2012 14:30
trans-1,3-Dichloropropene	ND	U	3.32	38.5	ug/Kg	50	11/12/2012 14:30
Diisopropyl Ether	ND	U	11.3	38.5	ug/Kg	50	11/12/2012 14:30
Ethyl Benzene	ND	U	3.38	38.5	ug/Kg	50	11/12/2012 14:30
Hexachlorobutadiene	ND	U	3.05	38.5	ug/Kg	50	11/12/2012 14:30
Isopropylbenzene (Cumene)	ND	U	3.35	38.5	ug/Kg	50	11/12/2012 14:30
Methyl iodide	ND	U	4.43	38.5	ug/Kg	50	11/12/2012 14:30
Methylene chloride	ND	U	5.86	193	ug/Kg	50	11/12/2012 14:30
Naphthalene	ND	U	3.30	38.5	ug/Kg	50	11/12/2012 14:30
Styrene	ND	U	3.93	38.5	ug/Kg	50	11/12/2012 14:30
Tetrachloroethene	**44.7**		5.97	38.5	ug/Kg	50	11/12/2012 14:30
Toluene	ND	U	5.13	38.5	ug/Kg	50	11/12/2012 14:30
Trichloroethene	ND	U	4.82	38.5	ug/Kg	50	11/12/2012 14:30
Trichlorofluoromethane	ND	U	5.28	38.5	ug/Kg	50	11/12/2012 14:30
Vinyl chloride	ND	U	4.78	38.5	ug/Kg	50	11/12/2012 14:30
Xylene (total)	ND	U	7.01	77.1	ug/Kg	50	11/12/2012 14:30
cis-1,2-Dichloroethene	ND	U	5.24	38.5	ug/Kg	50	11/12/2012 14:30
m,p-Xylene	ND	U	7.01	77.1	ug/Kg	50	11/12/2012 14:30
n-Propylbenzene	ND	U	4.36	38.5	ug/Kg	50	11/12/2012 14:30
o-Xylene	ND	U	3.37	38.5	ug/Kg	50	11/12/2012 14:30
sec-Butylbenzene	ND	U	4.32	38.5	ug/Kg	50	11/12/2012 14:30
tert-Butyl methyl ether (MTBE)	ND	U	5.55	38.5	ug/Kg	50	11/12/2012 14:30
tert-Butylbenzene	ND	U	3.30	38.5	ug/Kg	50	11/12/2012 14:30
trans-1,2-Dichloroethene	ND	U	8.60	38.5	ug/Kg	50	11/12/2012 14:30
trans-1,4-Dichloro-2-butene	ND	U	16.0	193	ug/Kg	50	11/12/2012 14:30
Surrogates							
1,2-Dichloroethane-d4	94.0			55.0-173	%	50	11/12/2012 14:30
4-Bromofluorobenzene	101			23.0-141	%	50	11/12/2012 14:30
Toluene d8	95.0			57.0-134	%	50	11/12/2012 14:30

Batch Information

Analytical Batch: **VMS2730**
Analytical Method: **SW-846 8260B**
Instrument: **MSD8**
Analyst: **BWS**

Prep Batch: **VXX4329**
Prep Method: **SW-846 5035 SM**
Prep Date/Time: **11/06/2012 16:30**
Prep Initial Wt./Vol.: **7.13 g**
Prep Extract Vol: **5 mL**

Print Date: 11/28/2012

N.C. Certification # 481

Results of **SB45-3-4**

Client Sample ID: **SB45-3-4**
Client Project ID: **2012.0009**
Lab Sample ID: 31203610054-D
Lab Project ID: 31203610

Collection Date: 11/01/2012 16:30
Received Date: 11/02/2012 14:00
Matrix: Soil-Solid as dry weight
Solids (%): 84.90

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	U	5.09	48.9	ug/Kg	50	11/12/2012 14:54
1,1,1-Trichloroethane	**29.4**	J	6.02	48.9	ug/Kg	50	11/12/2012 14:54
1,1,2,2-Tetrachloroethane	ND	U	7.63	48.9	ug/Kg	50	11/12/2012 14:54
1,1,2-Trichloroethane	ND	U	6.17	48.9	ug/Kg	50	11/12/2012 14:54
1,1-Dichloroethane	ND	U	8.08	48.9	ug/Kg	50	11/12/2012 14:54
1,1-Dichloroethene	ND	U	10.4	48.9	ug/Kg	50	11/12/2012 14:54
1,1-Dichloropropene	ND	U	4.22	48.9	ug/Kg	50	11/12/2012 14:54
1,2,3-Trichlorobenzene	ND	U	5.38	48.9	ug/Kg	50	11/12/2012 14:54
1,2,3-Trichloropropane	ND	U	10.4	48.9	ug/Kg	50	11/12/2012 14:54
1,2,4-Trichlorobenzene	ND	U	4.47	48.9	ug/Kg	50	11/12/2012 14:54
1,2,4-Trimethylbenzene	ND	U	4.70	48.9	ug/Kg	50	11/12/2012 14:54
1,2-Dibromo-3-chloropropane	ND	U	36.6	245	ug/Kg	50	11/12/2012 14:54
1,2-Dibromoethane	ND	U	5.87	48.9	ug/Kg	50	11/12/2012 14:54
1,2-Dichlorobenzene	ND	U	6.70	48.9	ug/Kg	50	11/12/2012 14:54
1,2-Dichloroethane	ND	U	8.17	48.9	ug/Kg	50	11/12/2012 14:54
1,2-Dichloropropane	ND	U	7.98	48.9	ug/Kg	50	11/12/2012 14:54
1,3,5-Trimethylbenzene	ND	U	5.53	48.9	ug/Kg	50	11/12/2012 14:54
1,3-Dichlorobenzene	ND	U	5.04	48.9	ug/Kg	50	11/12/2012 14:54
1,3-Dichloropropane	ND	U	6.36	48.9	ug/Kg	50	11/12/2012 14:54
1,4-Dichlorobenzene	ND	U	6.36	48.9	ug/Kg	50	11/12/2012 14:54
2,2-Dichloropropane	ND	U	19.2	48.9	ug/Kg	50	11/12/2012 14:54
2-Butanone	ND	U	35.4	1220	ug/Kg	50	11/12/2012 14:54
2-Chlorotoluene	ND	U	5.53	48.9	ug/Kg	50	11/12/2012 14:54
2-Hexanone	ND	U	35.6	245	ug/Kg	50	11/12/2012 14:54
4-Chlorotoluene	ND	U	6.12	48.9	ug/Kg	50	11/12/2012 14:54
4-Isopropyltoluene	ND	U	3.76	48.9	ug/Kg	50	11/12/2012 14:54
4-Methyl-2-pentanone	ND	U	27.3	245	ug/Kg	50	11/12/2012 14:54
Acetone	ND	U	42.3	1220	ug/Kg	50	11/12/2012 14:54
Benzene	ND	U	5.53	48.9	ug/Kg	50	11/12/2012 14:54
Bromobenzene	ND	U	5.38	48.9	ug/Kg	50	11/12/2012 14:54
Bromochloromethane	ND	U	10.3	48.9	ug/Kg	50	11/12/2012 14:54
Bromodichloromethane	ND	U	5.38	48.9	ug/Kg	50	11/12/2012 14:54
Bromoform	ND	U	4.77	48.9	ug/Kg	50	11/12/2012 14:54
Bromomethane	ND	U	11.6	48.9	ug/Kg	50	11/12/2012 14:54
n-Butylbenzene	ND	U	3.76	48.9	ug/Kg	50	11/12/2012 14:54
Carbon disulfide	ND	U	5.19	48.9	ug/Kg	50	11/12/2012 14:54
Carbon tetrachloride	ND	U	4.94	48.9	ug/Kg	50	11/12/2012 14:54
Chlorobenzene	ND	U	5.68	48.9	ug/Kg	50	11/12/2012 14:54
Chloroethane	ND	U	15.2	48.9	ug/Kg	50	11/12/2012 14:54
Chloroform	ND	U	6.80	48.9	ug/Kg	50	11/12/2012 14:54
Chloromethane	ND	U	21.9	48.9	ug/Kg	50	11/12/2012 14:54
Dibromochloromethane	ND	U	6.56	48.9	ug/Kg	50	11/12/2012 14:54
Dibromomethane	ND	U	8.22	48.9	ug/Kg	50	11/12/2012 14:54

Print Date: 11/28/2012

N.C. Certification # 481

Results of **SB45-3-4**

Client Sample ID: **SB45-3-4**
Client Project ID: **2012.0009**
Lab Sample ID: 31203610054-D
Lab Project ID: 31203610

Collection Date: 11/01/2012 16:30
Received Date: 11/02/2012 14:00
Matrix: Soil-Solid as dry weight
Solids (%): 84.90

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
Dichlorodifluoromethane	ND	U	8.37	245	ug/Kg	50	11/12/2012 14:54
cis-1,3-Dichloropropene	ND	U	3.75	48.9	ug/Kg	50	11/12/2012 14:54
trans-1,3-Dichloropropene	ND	U	4.22	48.9	ug/Kg	50	11/12/2012 14:54
Diisopropyl Ether	ND	U	14.4	48.9	ug/Kg	50	11/12/2012 14:54
Ethyl Benzene	ND	U	4.29	48.9	ug/Kg	50	11/12/2012 14:54
Hexachlorobutadiene	ND	U	3.88	48.9	ug/Kg	50	11/12/2012 14:54
Isopropylbenzene (Cumene)	ND	U	4.25	48.9	ug/Kg	50	11/12/2012 14:54
Methyl iodide	ND	U	5.63	48.9	ug/Kg	50	11/12/2012 14:54
Methylene chloride	ND	U	7.44	245	ug/Kg	50	11/12/2012 14:54
Naphthalene	ND	U	4.18	48.9	ug/Kg	50	11/12/2012 14:54
Styrene	ND	U	4.99	48.9	ug/Kg	50	11/12/2012 14:54
Tetrachloroethene	**266**		7.59	48.9	ug/Kg	50	11/12/2012 14:54
Toluene	ND	U	6.51	48.9	ug/Kg	50	11/12/2012 14:54
Trichloroethene	ND	U	6.12	48.9	ug/Kg	50	11/12/2012 14:54
Trichlorofluoromethane	ND	U	6.70	48.9	ug/Kg	50	11/12/2012 14:54
Vinyl chloride	ND	U	6.07	48.9	ug/Kg	50	11/12/2012 14:54
Xylene (total)	ND	U	8.91	97.9	ug/Kg	50	11/12/2012 14:54
cis-1,2-Dichloroethene	ND	U	6.66	48.9	ug/Kg	50	11/12/2012 14:54
m,p-Xylene	ND	U	8.91	97.9	ug/Kg	50	11/12/2012 14:54
n-Propylbenzene	ND	U	5.53	48.9	ug/Kg	50	11/12/2012 14:54
o-Xylene	ND	U	4.28	48.9	ug/Kg	50	11/12/2012 14:54
sec-Butylbenzene	ND	U	5.48	48.9	ug/Kg	50	11/12/2012 14:54
tert-Butyl methyl ether (MTBE)	ND	U	7.05	48.9	ug/Kg	50	11/12/2012 14:54
tert-Butylbenzene	ND	U	4.18	48.9	ug/Kg	50	11/12/2012 14:54
trans-1,2-Dichloroethene	ND	U	10.9	48.9	ug/Kg	50	11/12/2012 14:54
trans-1,4-Dichloro-2-butene	ND	U	20.3	245	ug/Kg	50	11/12/2012 14:54
Surrogates							
1,2-Dichloroethane-d4	100			55.0-173	%	50	11/12/2012 14:54
4-Bromofluorobenzene	98.0			23.0-141	%	50	11/12/2012 14:54
Toluene d8	95.0			57.0-134	%	50	11/12/2012 14:54

Batch Information

Analytical Batch: **VMS2730**
Analytical Method: **SW-846 8260B**
Instrument: **MSD8**
Analyst: **BWS**

Prep Batch: **VXX4329**
Prep Method: **SW-846 5035 SM**
Prep Date/Time: **11/06/2012 16:31**
Prep Initial Wt./Vol.: **6.02 g**
Prep Extract Vol: **5 mL**

Print Date: 11/28/2012

N.C. Certification # 481

Results of **SB45-4-5**

Client Sample ID: **SB45-4-5**
Client Project ID: **2012.0009**
Lab Sample ID: 31203610055-A
Lab Project ID: 31203610

Collection Date: 11/01/2012 16:40
Received Date: 11/02/2012 14:00
Matrix: Soil-Solid as dry weight
Solids (%): 84.90

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	U	0.495	5.03	ug/Kg	1	11/9/2012 11:37
1,1,1-Trichloroethane	**6.48**		0.425	5.03	ug/Kg	1	11/9/2012 11:37
1,1,2,2-Tetrachloroethane	ND	U	0.826	5.03	ug/Kg	1	11/9/2012 11:37
1,1,2-Trichloroethane	ND	U	0.610	5.03	ug/Kg	1	11/9/2012 11:37
1,1-Dichloroethane	ND	U	0.592	5.03	ug/Kg	1	11/9/2012 11:37
1,1-Dichloroethene	ND	U	3.00	5.03	ug/Kg	1	11/9/2012 11:37
1,1-Dichloropropene	ND	U	0.483	5.03	ug/Kg	1	11/9/2012 11:37
1,2,3-Trichlorobenzene	ND	U	0.419	5.03	ug/Kg	1	11/9/2012 11:37
1,2,3-Trichloropropane	ND	U	0.625	5.03	ug/Kg	1	11/9/2012 11:37
1,2,4-Trichlorobenzene	ND	U	0.411	5.03	ug/Kg	1	11/9/2012 11:37
1,2,4-Trimethylbenzene	ND	U	0.484	5.03	ug/Kg	1	11/9/2012 11:37
1,2-Dibromo-3-chloropropane	ND	U	6.42	30.2	ug/Kg	1	11/9/2012 11:37
1,2-Dibromoethane	ND	U	0.564	5.03	ug/Kg	1	11/9/2012 11:37
1,2-Dichlorobenzene	ND	U	0.668	5.03	ug/Kg	1	11/9/2012 11:37
1,2-Dichloroethane	ND	U	0.825	5.03	ug/Kg	1	11/9/2012 11:37
1,2-Dichloropropane	ND	U	0.463	5.03	ug/Kg	1	11/9/2012 11:37
1,3,5-Trimethylbenzene	ND	U	0.823	5.03	ug/Kg	1	11/9/2012 11:37
1,3-Dichlorobenzene	ND	U	0.383	5.03	ug/Kg	1	11/9/2012 11:37
1,3-Dichloropropane	ND	U	0.683	5.03	ug/Kg	1	11/9/2012 11:37
1,4-Dichlorobenzene	ND	U	0.494	5.03	ug/Kg	1	11/9/2012 11:37
2,2-Dichloropropane	ND	U	0.480	5.03	ug/Kg	1	11/9/2012 11:37
2-Butanone	ND	U	2.70	25.2	ug/Kg	1	11/9/2012 11:37
2-Chlorotoluene	ND	U	0.692	5.03	ug/Kg	1	11/9/2012 11:37
2-Hexanone	ND	U	2.83	12.6	ug/Kg	1	11/9/2012 11:37
4-Chlorotoluene	ND	U	0.482	5.03	ug/Kg	1	11/9/2012 11:37
4-Isopropyltoluene	ND	U	0.567	5.03	ug/Kg	1	11/9/2012 11:37
4-Methyl-2-pentanone	ND	U	2.08	12.6	ug/Kg	1	11/9/2012 11:37
Acetone	**14.2**	J	3.77	50.3	ug/Kg	1	11/9/2012 11:37
Benzene	ND	U	0.391	5.03	ug/Kg	1	11/9/2012 11:37
Bromobenzene	ND	U	0.940	5.03	ug/Kg	1	11/9/2012 11:37
Bromochloromethane	ND	U	1.48	5.03	ug/Kg	1	11/9/2012 11:37
Bromodichloromethane	ND	U	0.685	5.03	ug/Kg	1	11/9/2012 11:37
Bromoform	ND	U	2.31	5.03	ug/Kg	1	11/9/2012 11:37
Bromomethane	ND	U	1.72	5.03	ug/Kg	1	11/9/2012 11:37
n-Butylbenzene	ND	U	0.426	5.03	ug/Kg	1	11/9/2012 11:37
Carbon disulfide	ND	U	0.826	5.03	ug/Kg	1	11/9/2012 11:37
Carbon tetrachloride	ND	U	0.564	5.03	ug/Kg	1	11/9/2012 11:37
Chlorobenzene	ND	U	0.490	5.03	ug/Kg	1	11/9/2012 11:37
Chloroethane	ND	U	1.24	5.03	ug/Kg	1	11/9/2012 11:37
Chloroform	ND	U	0.518	5.03	ug/Kg	1	11/9/2012 11:37
Chloromethane	ND	U	0.650	5.03	ug/Kg	1	11/9/2012 11:37
Dibromochloromethane	ND	U	0.816	5.03	ug/Kg	1	11/9/2012 11:37
Dibromomethane	ND	U	0.584	5.03	ug/Kg	1	11/9/2012 11:37

Print Date: 11/28/2012

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Results of **SB45-4-5**

Client Sample ID: **SB45-4-5**
Client Project ID: **2012.0009**
Lab Sample ID: 31203610055-A
Lab Project ID: 31203610

Collection Date: 11/01/2012 16:40
Received Date: 11/02/2012 14:00
Matrix: Soil-Solid as dry weight
Solids (%): 84.90

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
Dichlorodifluoromethane	ND	U	0.754	5.03	ug/Kg	1	11/9/2012 11:37
cis-1,3-Dichloropropene	ND	U	0.504	5.03	ug/Kg	1	11/9/2012 11:37
trans-1,3-Dichloropropene	ND	U	0.537	5.03	ug/Kg	1	11/9/2012 11:37
Diisopropyl Ether	ND	U	0.686	5.03	ug/Kg	1	11/9/2012 11:37
Ethyl Benzene	ND	U	0.445	5.03	ug/Kg	1	11/9/2012 11:37
Hexachlorobutadiene	ND	U	0.596	5.03	ug/Kg	1	11/9/2012 11:37
Isopropylbenzene (Cumene)	ND	U	0.377	5.03	ug/Kg	1	11/9/2012 11:37
Methyl iodide	ND	U	0.541	5.03	ug/Kg	1	11/9/2012 11:37
Methylene chloride	ND	U	0.910	20.1	ug/Kg	1	11/9/2012 11:37
Naphthalene	ND	U	0.636	5.03	ug/Kg	1	11/9/2012 11:37
Styrene	ND	U	0.537	5.03	ug/Kg	1	11/9/2012 11:37
Tetrachloroethene	**121**		0.584	5.03	ug/Kg	1	11/9/2012 11:37
Toluene	ND	U	0.699	5.03	ug/Kg	1	11/9/2012 11:37
Trichloroethene	**2.42**	J	0.647	5.03	ug/Kg	1	11/9/2012 11:37
Trichlorofluoromethane	ND	U	0.573	5.03	ug/Kg	1	11/9/2012 11:37
Vinyl chloride	ND	U	0.798	5.03	ug/Kg	1	11/9/2012 11:37
Xylene (total)	ND	U	1.78	10.1	ug/Kg	1	11/9/2012 11:37
cis-1,2-Dichloroethene	**0.795**	J	0.674	5.03	ug/Kg	1	11/9/2012 11:37
m,p-Xylene	ND	U	0.785	10.1	ug/Kg	1	11/9/2012 11:37
n-Propylbenzene	ND	U	0.488	5.03	ug/Kg	1	11/9/2012 11:37
o-Xylene	ND	U	0.718	5.03	ug/Kg	1	11/9/2012 11:37
sec-Butylbenzene	ND	U	0.489	5.03	ug/Kg	1	11/9/2012 11:37
tert-Butyl methyl ether (MTBE)	ND	U	0.694	5.03	ug/Kg	1	11/9/2012 11:37
tert-Butylbenzene	ND	U	0.396	5.03	ug/Kg	1	11/9/2012 11:37
trans-1,2-Dichloroethene	ND	U	0.775	5.03	ug/Kg	1	11/9/2012 11:37
trans-1,4-Dichloro-2-butene	ND	U	5.91	25.2	ug/Kg	1	11/9/2012 11:37
Surrogates							
1,2-Dichloroethane-d4	114			55.0-173	%	1	11/9/2012 11:37
4-Bromofluorobenzene	98.0			23.0-141	%	1	11/9/2012 11:37
Toluene d8	103			57.0-134	%	1	11/9/2012 11:37

Batch Information

Analytical Batch: **VMS2727**
Analytical Method: **SW-846 8260B**
Instrument: **MSD2**
Analyst: **DVO**

Prep Batch: **VXX4310**
Prep Method: **SW-846 5035 SL**
Prep Date/Time: **11/06/2012 16:33**
Prep Initial Wt./Vol.: **5.85 g**
Prep Extract Vol: **5 mL**

Print Date: 11/28/2012

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Results of **SB45-5-6**

Client Sample ID: **SB45-5-6**
Client Project ID: **2012.0009**
Lab Sample ID: 31203610056-D
Lab Project ID: 31203610

Collection Date: 11/01/2012 16:45
Received Date: 11/02/2012 14:00
Matrix: Soil-Solid as dry weight
Solids (%): 84.20

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	U	5.07	48.7	ug/Kg	50	11/12/2012 15:19
1,1,1-Trichloroethane	ND	U	5.99	48.7	ug/Kg	50	11/12/2012 15:19
1,1,2,2-Tetrachloroethane	ND	U	7.60	48.7	ug/Kg	50	11/12/2012 15:19
1,1,2-Trichloroethane	ND	U	6.14	48.7	ug/Kg	50	11/12/2012 15:19
1,1-Dichloroethane	ND	U	8.04	48.7	ug/Kg	50	11/12/2012 15:19
1,1-Dichloroethene	ND	U	10.3	48.7	ug/Kg	50	11/12/2012 15:19
1,1-Dichloropropene	ND	U	4.21	48.7	ug/Kg	50	11/12/2012 15:19
1,2,3-Trichlorobenzene	ND	U	5.36	48.7	ug/Kg	50	11/12/2012 15:19
1,2,3-Trichloropropane	ND	U	10.3	48.7	ug/Kg	50	11/12/2012 15:19
1,2,4-Trichlorobenzene	ND	U	4.45	48.7	ug/Kg	50	11/12/2012 15:19
1,2,4-Trimethylbenzene	ND	U	4.68	48.7	ug/Kg	50	11/12/2012 15:19
1,2-Dibromo-3-chloropropane	ND	U	36.5	244	ug/Kg	50	11/12/2012 15:19
1,2-Dibromoethane	ND	U	5.85	48.7	ug/Kg	50	11/12/2012 15:19
1,2-Dichlorobenzene	ND	U	6.68	48.7	ug/Kg	50	11/12/2012 15:19
1,2-Dichloroethane	ND	U	8.14	48.7	ug/Kg	50	11/12/2012 15:19
1,2-Dichloropropane	ND	U	7.94	48.7	ug/Kg	50	11/12/2012 15:19
1,3,5-Trimethylbenzene	ND	U	5.51	48.7	ug/Kg	50	11/12/2012 15:19
1,3-Dichlorobenzene	ND	U	5.02	48.7	ug/Kg	50	11/12/2012 15:19
1,3-Dichloropropane	ND	U	6.33	48.7	ug/Kg	50	11/12/2012 15:19
1,4-Dichlorobenzene	ND	U	6.33	48.7	ug/Kg	50	11/12/2012 15:19
2,2-Dichloropropane	ND	U	19.2	48.7	ug/Kg	50	11/12/2012 15:19
2-Butanone	ND	U	35.2	1220	ug/Kg	50	11/12/2012 15:19
2-Chlorotoluene	ND	U	5.51	48.7	ug/Kg	50	11/12/2012 15:19
2-Hexanone	ND	U	35.5	244	ug/Kg	50	11/12/2012 15:19
4-Chlorotoluene	ND	U	6.09	48.7	ug/Kg	50	11/12/2012 15:19
4-Isopropyltoluene	ND	U	3.75	48.7	ug/Kg	50	11/12/2012 15:19
4-Methyl-2-pentanone	ND	U	27.2	244	ug/Kg	50	11/12/2012 15:19
Acetone	ND	U	42.1	1220	ug/Kg	50	11/12/2012 15:19
Benzene	ND	U	5.51	48.7	ug/Kg	50	11/12/2012 15:19
Bromobenzene	ND	U	5.36	48.7	ug/Kg	50	11/12/2012 15:19
Bromochloromethane	ND	U	10.3	48.7	ug/Kg	50	11/12/2012 15:19
Bromodichloromethane	ND	U	5.36	48.7	ug/Kg	50	11/12/2012 15:19
Bromoform	ND	U	4.75	48.7	ug/Kg	50	11/12/2012 15:19
Bromomethane	ND	U	11.5	48.7	ug/Kg	50	11/12/2012 15:19
n-Butylbenzene	ND	U	3.75	48.7	ug/Kg	50	11/12/2012 15:19
Carbon disulfide	ND	U	5.17	48.7	ug/Kg	50	11/12/2012 15:19
Carbon tetrachloride	ND	U	4.92	48.7	ug/Kg	50	11/12/2012 15:19
Chlorobenzene	ND	U	5.65	48.7	ug/Kg	50	11/12/2012 15:19
Chloroethane	ND	U	15.2	48.7	ug/Kg	50	11/12/2012 15:19
Chloroform	ND	U	6.77	48.7	ug/Kg	50	11/12/2012 15:19
Chloromethane	ND	U	21.8	48.7	ug/Kg	50	11/12/2012 15:19
Dibromochloromethane	ND	U	6.53	48.7	ug/Kg	50	11/12/2012 15:19
Dibromomethane	ND	U	8.19	48.7	ug/Kg	50	11/12/2012 15:19

Print Date: 11/28/2012

N.C. Certification # 481

Results of **SB45-5-6**

Client Sample ID: **SB45-5-6**
Client Project ID: **2012.0009**
Lab Sample ID: 31203610056-D
Lab Project ID: 31203610

Collection Date: 11/01/2012 16:45
Received Date: 11/02/2012 14:00
Matrix: Soil-Solid as dry weight
Solids (%): 84.20

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
Dichlorodifluoromethane	ND	U	8.33	244	ug/Kg	50	11/12/2012 15:19
cis-1,3-Dichloropropene	ND	U	3.74	48.7	ug/Kg	50	11/12/2012 15:19
trans-1,3-Dichloropropene	ND	U	4.20	48.7	ug/Kg	50	11/12/2012 15:19
Diisopropyl Ether	ND	U	14.3	48.7	ug/Kg	50	11/12/2012 15:19
Ethyl Benzene	ND	U	4.27	48.7	ug/Kg	50	11/12/2012 15:19
Hexachlorobutadiene	ND	U	3.86	48.7	ug/Kg	50	11/12/2012 15:19
Isopropylbenzene (Cumene)	ND	U	4.23	48.7	ug/Kg	50	11/12/2012 15:19
Methyl iodide	ND	U	5.60	48.7	ug/Kg	50	11/12/2012 15:19
Methylene chloride	ND	U	7.41	244	ug/Kg	50	11/12/2012 15:19
Naphthalene	ND	U	4.17	48.7	ug/Kg	50	11/12/2012 15:19
Styrene	ND	U	4.97	48.7	ug/Kg	50	11/12/2012 15:19
Tetrachloroethene	**140**		7.55	48.7	ug/Kg	50	11/12/2012 15:19
Toluene	ND	U	6.48	48.7	ug/Kg	50	11/12/2012 15:19
Trichloroethene	ND	U	6.09	48.7	ug/Kg	50	11/12/2012 15:19
Trichlorofluoromethane	ND	U	6.68	48.7	ug/Kg	50	11/12/2012 15:19
Vinyl chloride	ND	U	6.04	48.7	ug/Kg	50	11/12/2012 15:19
Xylene (total)	ND	U	8.87	97.5	ug/Kg	50	11/12/2012 15:19
cis-1,2-Dichloroethene	ND	U	6.63	48.7	ug/Kg	50	11/12/2012 15:19
m,p-Xylene	ND	U	8.87	97.5	ug/Kg	50	11/12/2012 15:19
n-Propylbenzene	ND	U	5.51	48.7	ug/Kg	50	11/12/2012 15:19
o-Xylene	ND	U	4.26	48.7	ug/Kg	50	11/12/2012 15:19
sec-Butylbenzene	ND	U	5.46	48.7	ug/Kg	50	11/12/2012 15:19
tert-Butyl methyl ether (MTBE)	ND	U	7.02	48.7	ug/Kg	50	11/12/2012 15:19
tert-Butylbenzene	ND	U	4.17	48.7	ug/Kg	50	11/12/2012 15:19
trans-1,2-Dichloroethene	ND	U	10.9	48.7	ug/Kg	50	11/12/2012 15:19
trans-1,4-Dichloro-2-butene	ND	U	20.2	244	ug/Kg	50	11/12/2012 15:19
Surrogates							
1,2-Dichloroethane-d4	100			55.0-173	%	50	11/12/2012 15:19
4-Bromofluorobenzene	102			23.0-141	%	50	11/12/2012 15:19
Toluene d8	96.0			57.0-134	%	50	11/12/2012 15:19

Batch Information

Analytical Batch: **VMS2730**
Analytical Method: **SW-846 8260B**
Instrument: **MSD8**
Analyst: **BWS**

Prep Batch: **VXX4329**
Prep Method: **SW-846 5035 SM**
Prep Date/Time: **11/06/2012 16:34**
Prep Initial Wt./Vol.: **6.09 g**
Prep Extract Vol: **5 mL**

Print Date: 11/28/2012

N.C. Certification # 481

Results of **SB45-6-7**

Client Sample ID: **SB45-6-7**
Client Project ID: **2012.0009**
Lab Sample ID: 31203610057-D
Lab Project ID: 31203610

Collection Date: 11/01/2012 16:50
Received Date: 11/02/2012 14:00
Matrix: Soil-Solid as dry weight
Solids (%): 87.20

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	U	4.66	44.8	ug/Kg	50	11/12/2012 15:43
1,1,1-Trichloroethane	**107**		5.51	44.8	ug/Kg	50	11/12/2012 15:43
1,1,2,2-Tetrachloroethane	ND	U	6.99	44.8	ug/Kg	50	11/12/2012 15:43
1,1,2-Trichloroethane	ND	U	5.65	44.8	ug/Kg	50	11/12/2012 15:43
1,1-Dichloroethane	ND	U	7.39	44.8	ug/Kg	50	11/12/2012 15:43
1,1-Dichloroethene	**37.6**	J	9.50	44.8	ug/Kg	50	11/12/2012 15:43
1,1-Dichloropropene	ND	U	3.87	44.8	ug/Kg	50	11/12/2012 15:43
1,2,3-Trichlorobenzene	ND	U	4.93	44.8	ug/Kg	50	11/12/2012 15:43
1,2,3-Trichloropropane	ND	U	9.50	44.8	ug/Kg	50	11/12/2012 15:43
1,2,4-Trichlorobenzene	ND	U	4.09	44.8	ug/Kg	50	11/12/2012 15:43
1,2,4-Trimethylbenzene	ND	U	4.31	44.8	ug/Kg	50	11/12/2012 15:43
1,2-Dibromo-3-chloropropane	ND	U	33.5	224	ug/Kg	50	11/12/2012 15:43
1,2-Dibromoethane	ND	U	5.38	44.8	ug/Kg	50	11/12/2012 15:43
1,2-Dichlorobenzene	ND	U	6.14	44.8	ug/Kg	50	11/12/2012 15:43
1,2-Dichloroethane	ND	U	7.48	44.8	ug/Kg	50	11/12/2012 15:43
1,2-Dichloropropane	ND	U	7.30	44.8	ug/Kg	50	11/12/2012 15:43
1,3,5-Trimethylbenzene	ND	U	5.06	44.8	ug/Kg	50	11/12/2012 15:43
1,3-Dichlorobenzene	ND	U	4.62	44.8	ug/Kg	50	11/12/2012 15:43
1,3-Dichloropropane	ND	U	5.83	44.8	ug/Kg	50	11/12/2012 15:43
1,4-Dichlorobenzene	ND	U	5.83	44.8	ug/Kg	50	11/12/2012 15:43
2,2-Dichloropropane	ND	U	17.6	44.8	ug/Kg	50	11/12/2012 15:43
2-Butanone	ND	U	32.4	1120	ug/Kg	50	11/12/2012 15:43
2-Chlorotoluene	ND	U	5.06	44.8	ug/Kg	50	11/12/2012 15:43
2-Hexanone	ND	U	32.6	224	ug/Kg	50	11/12/2012 15:43
4-Chlorotoluene	ND	U	5.60	44.8	ug/Kg	50	11/12/2012 15:43
4-Isopropyltoluene	ND	U	3.45	44.8	ug/Kg	50	11/12/2012 15:43
4-Methyl-2-pentanone	ND	U	25.0	224	ug/Kg	50	11/12/2012 15:43
Acetone	ND	U	38.7	1120	ug/Kg	50	11/12/2012 15:43
Benzene	ND	U	5.06	44.8	ug/Kg	50	11/12/2012 15:43
Bromobenzene	ND	U	4.93	44.8	ug/Kg	50	11/12/2012 15:43
Bromochloromethane	ND	U	9.46	44.8	ug/Kg	50	11/12/2012 15:43
Bromodichloromethane	ND	U	4.93	44.8	ug/Kg	50	11/12/2012 15:43
Bromoform	ND	U	4.36	44.8	ug/Kg	50	11/12/2012 15:43
Bromomethane	ND	U	10.6	44.8	ug/Kg	50	11/12/2012 15:43
n-Butylbenzene	ND	U	3.45	44.8	ug/Kg	50	11/12/2012 15:43
Carbon disulfide	ND	U	4.75	44.8	ug/Kg	50	11/12/2012 15:43
Carbon tetrachloride	ND	U	4.53	44.8	ug/Kg	50	11/12/2012 15:43
Chlorobenzene	ND	U	5.20	44.8	ug/Kg	50	11/12/2012 15:43
Chloroethane	ND	U	13.9	44.8	ug/Kg	50	11/12/2012 15:43
Chloroform	ND	U	6.23	44.8	ug/Kg	50	11/12/2012 15:43
Chloromethane	ND	U	20.1	44.8	ug/Kg	50	11/12/2012 15:43
Dibromochloromethane	ND	U	6.01	44.8	ug/Kg	50	11/12/2012 15:43
Dibromomethane	ND	U	7.53	44.8	ug/Kg	50	11/12/2012 15:43

Print Date: 11/28/2012

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Results of **SB45-6-7**

Client Sample ID: **SB45-6-7**
Client Project ID: **2012.0009**
Lab Sample ID: 31203610057-D
Lab Project ID: 31203610

Collection Date: 11/01/2012 16:50
Received Date: 11/02/2012 14:00
Matrix: Soil-Solid as dry weight
Solids (%): 87.20

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
Dichlorodifluoromethane	ND	U	7.66	224	ug/Kg	50	11/12/2012 15:43
cis-1,3-Dichloropropene	ND	U	3.44	44.8	ug/Kg	50	11/12/2012 15:43
trans-1,3-Dichloropropene	ND	U	3.86	44.8	ug/Kg	50	11/12/2012 15:43
Diisopropyl Ether	ND	U	13.2	44.8	ug/Kg	50	11/12/2012 15:43
Ethyl Benzene	ND	U	3.93	44.8	ug/Kg	50	11/12/2012 15:43
Hexachlorobutadiene	ND	U	3.55	44.8	ug/Kg	50	11/12/2012 15:43
Isopropylbenzene (Cumene)	ND	U	3.89	44.8	ug/Kg	50	11/12/2012 15:43
Methyl iodide	ND	U	5.15	44.8	ug/Kg	50	11/12/2012 15:43
Methylene chloride	ND	U	6.81	224	ug/Kg	50	11/12/2012 15:43
Naphthalene	ND	U	3.83	44.8	ug/Kg	50	11/12/2012 15:43
Styrene	ND	U	4.57	44.8	ug/Kg	50	11/12/2012 15:43
Tetrachloroethene	**1120**		6.95	44.8	ug/Kg	50	11/12/2012 15:43
Toluene	ND	U	5.96	44.8	ug/Kg	50	11/12/2012 15:43
Trichloroethene	**33.6**	J	5.60	44.8	ug/Kg	50	11/12/2012 15:43
Trichlorofluoromethane	ND	U	6.14	44.8	ug/Kg	50	11/12/2012 15:43
Vinyl chloride	ND	U	5.56	44.8	ug/Kg	50	11/12/2012 15:43
Xylene (total)	ND	U	8.16	89.6	ug/Kg	50	11/12/2012 15:43
cis-1,2-Dichloroethene	ND	U	6.09	44.8	ug/Kg	50	11/12/2012 15:43
m,p-Xylene	ND	U	8.16	89.6	ug/Kg	50	11/12/2012 15:43
n-Propylbenzene	ND	U	5.06	44.8	ug/Kg	50	11/12/2012 15:43
o-Xylene	ND	U	3.92	44.8	ug/Kg	50	11/12/2012 15:43
sec-Butylbenzene	ND	U	5.02	44.8	ug/Kg	50	11/12/2012 15:43
tert-Butyl methyl ether (MTBE)	ND	U	6.45	44.8	ug/Kg	50	11/12/2012 15:43
tert-Butylbenzene	ND	U	3.83	44.8	ug/Kg	50	11/12/2012 15:43
trans-1,2-Dichloroethene	ND	U	9.99	44.8	ug/Kg	50	11/12/2012 15:43
trans-1,4-Dichloro-2-butene	ND	U	18.6	224	ug/Kg	50	11/12/2012 15:43
Surrogates							
1,2-Dichloroethane-d4	105			55.0-173	%	50	11/12/2012 15:43
4-Bromofluorobenzene	100			23.0-141	%	50	11/12/2012 15:43
Toluene d8	103			57.0-134	%	50	11/12/2012 15:43

Batch Information

Analytical Batch: **VMS2730**
Analytical Method: **SW-846 8260B**
Instrument: **MSD8**
Analyst: **BWS**

Prep Batch: **VXX4329**
Prep Method: **SW-846 5035 SM**
Prep Date/Time: **11/06/2012 16:36**
Prep Initial Wt./Vol.: **6.4 g**
Prep Extract Vol: **5 mL**

Print Date: 11/28/2012

N.C. Certification # 481

Results of **SB45-7-8**

Client Sample ID: **SB45-7-8**
Client Project ID: **2012.0009**
Lab Sample ID: 31203610058-D
Lab Project ID: 31203610

Collection Date: 11/01/2012 16:55
Received Date: 11/02/2012 14:00
Matrix: Soil-Solid as dry weight
Solids (%): 78.10

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	U	4.66	44.8	ug/Kg	50	11/12/2012 16:08
1,1,1-Trichloroethane	**173**		5.51	44.8	ug/Kg	50	11/12/2012 16:08
1,1,2,2-Tetrachloroethane	ND	U	6.99	44.8	ug/Kg	50	11/12/2012 16:08
1,1,2-Trichloroethane	ND	U	5.64	44.8	ug/Kg	50	11/12/2012 16:08
1,1-Dichloroethane	ND	U	7.39	44.8	ug/Kg	50	11/12/2012 16:08
1,1-Dichloroethene	**85.1**		9.50	44.8	ug/Kg	50	11/12/2012 16:08
1,1-Dichloropropene	ND	U	3.87	44.8	ug/Kg	50	11/12/2012 16:08
1,2,3-Trichlorobenzene	ND	U	4.93	44.8	ug/Kg	50	11/12/2012 16:08
1,2,3-Trichloropropane	ND	U	9.50	44.8	ug/Kg	50	11/12/2012 16:08
1,2,4-Trichlorobenzene	ND	U	4.09	44.8	ug/Kg	50	11/12/2012 16:08
1,2,4-Trimethylbenzene	ND	U	4.30	44.8	ug/Kg	50	11/12/2012 16:08
1,2-Dibromo-3-chloropropane	ND	U	33.5	224	ug/Kg	50	11/12/2012 16:08
1,2-Dibromoethane	ND	U	5.38	44.8	ug/Kg	50	11/12/2012 16:08
1,2-Dichlorobenzene	ND	U	6.14	44.8	ug/Kg	50	11/12/2012 16:08
1,2-Dichloroethane	ND	U	7.48	44.8	ug/Kg	50	11/12/2012 16:08
1,2-Dichloropropane	ND	U	7.30	44.8	ug/Kg	50	11/12/2012 16:08
1,3,5-Trimethylbenzene	ND	U	5.06	44.8	ug/Kg	50	11/12/2012 16:08
1,3-Dichlorobenzene	ND	U	4.61	44.8	ug/Kg	50	11/12/2012 16:08
1,3-Dichloropropane	ND	U	5.82	44.8	ug/Kg	50	11/12/2012 16:08
1,4-Dichlorobenzene	ND	U	5.82	44.8	ug/Kg	50	11/12/2012 16:08
2,2-Dichloropropane	ND	U	17.6	44.8	ug/Kg	50	11/12/2012 16:08
2-Butanone	ND	U	32.4	1120	ug/Kg	50	11/12/2012 16:08
2-Chlorotoluene	ND	U	5.06	44.8	ug/Kg	50	11/12/2012 16:08
2-Hexanone	ND	U	32.6	224	ug/Kg	50	11/12/2012 16:08
4-Chlorotoluene	ND	U	5.60	44.8	ug/Kg	50	11/12/2012 16:08
4-Isopropyltoluene	ND	U	3.44	44.8	ug/Kg	50	11/12/2012 16:08
4-Methyl-2-pentanone	ND	U	25.0	224	ug/Kg	50	11/12/2012 16:08
Acetone	ND	U	38.7	1120	ug/Kg	50	11/12/2012 16:08
Benzene	ND	U	5.06	44.8	ug/Kg	50	11/12/2012 16:08
Bromobenzene	ND	U	4.93	44.8	ug/Kg	50	11/12/2012 16:08
Bromochloromethane	ND	U	9.45	44.8	ug/Kg	50	11/12/2012 16:08
Bromodichloromethane	ND	U	4.93	44.8	ug/Kg	50	11/12/2012 16:08
Bromoform	ND	U	4.36	44.8	ug/Kg	50	11/12/2012 16:08
Bromomethane	ND	U	10.6	44.8	ug/Kg	50	11/12/2012 16:08
n-Butylbenzene	ND	U	3.44	44.8	ug/Kg	50	11/12/2012 16:08
Carbon disulfide	ND	U	4.75	44.8	ug/Kg	50	11/12/2012 16:08
Carbon tetrachloride	ND	U	4.52	44.8	ug/Kg	50	11/12/2012 16:08
Chlorobenzene	ND	U	5.20	44.8	ug/Kg	50	11/12/2012 16:08
Chloroethane	ND	U	13.9	44.8	ug/Kg	50	11/12/2012 16:08
Chloroform	ND	U	6.23	44.8	ug/Kg	50	11/12/2012 16:08
Chloromethane	ND	U	20.1	44.8	ug/Kg	50	11/12/2012 16:08
Dibromochloromethane	ND	U	6.00	44.8	ug/Kg	50	11/12/2012 16:08
Dibromomethane	ND	U	7.53	44.8	ug/Kg	50	11/12/2012 16:08

Print Date: 11/28/2012

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Results of **SB45-7-8**

Client Sample ID: **SB45-7-8**
Client Project ID: **2012.0009**
Lab Sample ID: 31203610058-D
Lab Project ID: 31203610

Collection Date: 11/01/2012 16:55
Received Date: 11/02/2012 14:00
Matrix: Soil-Solid as dry weight
Solids (%): 78.10

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
Dichlorodifluoromethane	ND	U	7.66	224	ug/Kg	50	11/12/2012 16:08
cis-1,3-Dichloropropene	ND	U	3.44	44.8	ug/Kg	50	11/12/2012 16:08
trans-1,3-Dichloropropene	ND	U	3.86	44.8	ug/Kg	50	11/12/2012 16:08
Diisopropyl Ether	ND	U	13.2	44.8	ug/Kg	50	11/12/2012 16:08
Ethyl Benzene	ND	U	3.93	44.8	ug/Kg	50	11/12/2012 16:08
Hexachlorobutadiene	ND	U	3.55	44.8	ug/Kg	50	11/12/2012 16:08
Isopropylbenzene (Cumene)	ND	U	3.89	44.8	ug/Kg	50	11/12/2012 16:08
Methyl iodide	ND	U	5.15	44.8	ug/Kg	50	11/12/2012 16:08
Methylene chloride	ND	U	6.81	224	ug/Kg	50	11/12/2012 16:08
Naphthalene	ND	U	3.83	44.8	ug/Kg	50	11/12/2012 16:08
Styrene	ND	U	4.57	44.8	ug/Kg	50	11/12/2012 16:08
Tetrachloroethene	**1160**		6.94	44.8	ug/Kg	50	11/12/2012 16:08
Toluene	ND	U	5.96	44.8	ug/Kg	50	11/12/2012 16:08
Trichloroethene	**39.0**	J	5.60	44.8	ug/Kg	50	11/12/2012 16:08
Trichlorofluoromethane	ND	U	6.14	44.8	ug/Kg	50	11/12/2012 16:08
Vinyl chloride	ND	U	5.55	44.8	ug/Kg	50	11/12/2012 16:08
Xylene (total)	ND	U	8.15	89.6	ug/Kg	50	11/12/2012 16:08
cis-1,2-Dichloroethene	ND	U	6.09	44.8	ug/Kg	50	11/12/2012 16:08
m,p-Xylene	ND	U	8.15	89.6	ug/Kg	50	11/12/2012 16:08
n-Propylbenzene	ND	U	5.06	44.8	ug/Kg	50	11/12/2012 16:08
o-Xylene	ND	U	3.92	44.8	ug/Kg	50	11/12/2012 16:08
sec-Butylbenzene	ND	U	5.02	44.8	ug/Kg	50	11/12/2012 16:08
tert-Butyl methyl ether (MTBE)	ND	U	6.45	44.8	ug/Kg	50	11/12/2012 16:08
tert-Butylbenzene	ND	U	3.83	44.8	ug/Kg	50	11/12/2012 16:08
trans-1,2-Dichloroethene	ND	U	9.99	44.8	ug/Kg	50	11/12/2012 16:08
trans-1,4-Dichloro-2-butene	ND	U	18.5	224	ug/Kg	50	11/12/2012 16:08
Surrogates							
1,2-Dichloroethane-d4	108			55.0-173	%	50	11/12/2012 16:08
4-Bromofluorobenzene	99.0			23.0-141	%	50	11/12/2012 16:08
Toluene d8	102			57.0-134	%	50	11/12/2012 16:08

Batch Information

Analytical Batch: **VMS2730**
Analytical Method: **SW-846 8260B**
Instrument: **MSD8**
Analyst: **BWS**

Prep Batch: **VXX4329**
Prep Method: **SW-846 5035 SM**
Prep Date/Time: **11/06/2012 16:39**
Prep Initial Wt./Vol.: **7.15 g**
Prep Extract Vol: **5 mL**

Print Date: 11/28/2012

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Results of **East Trench Bedding-SS (TCLP)**

Client Sample ID: **East Trench Bedding-SS (TCLP)**
Client Project ID: **2012.0009**
Lab Sample ID: 31203610059-A
Lab Project ID: 31203610

Collection Date: 10/31/2012 11:40
Received Date: 11/05/2012 14:00
Matrix: Soil-Solid as dry weight
Solids (%): 100.00

Results by **SW-846 8260B-TCLP**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
1,1-Dichloroethene	ND	U	2.88	10.0	ug/L	10	11/13/2012 16:40
1,2-Dichloroethane	ND	U	2.96	10.0	ug/L	10	11/13/2012 16:40
1,4-Dichlorobenzene	ND	U	4.63	10.0	ug/L	10	11/13/2012 16:40
2-Butanone	ND	U	15.3	250	ug/L	10	11/13/2012 16:40
Benzene	ND	U	1.56	10.0	ug/L	10	11/13/2012 16:40
Carbon tetrachloride	ND	U	2.70	10.0	ug/L	10	11/13/2012 16:40
Chlorobenzene	ND	U	2.69	10.0	ug/L	10	11/13/2012 16:40
Chloroform	ND	U	1.84	10.0	ug/L	10	11/13/2012 16:40
Tetrachloroethene	**8.80**	J	2.64	10.0	ug/L	10	11/13/2012 16:40
Trichloroethene	ND	U	2.27	10.0	ug/L	10	11/13/2012 16:40
Vinyl chloride	ND	U	1.89	10.0	ug/L	10	11/13/2012 16:40
Surrogates							
1,2-Dichloroethane-d4	99.0			64.0-140	%	10	11/13/2012 16:40
4-Bromofluorobenzene	105			85.0-115	%	10	11/13/2012 16:40
Toluene d8	99.0			82.0-117	%	10	11/13/2012 16:40

Batch Information

Analytical Batch: **VMS2734**
Analytical Method: **SW-846 8260B-TCLP**
Instrument: **MSD8**
Analyst: **BWS**

Prep Batch: **VXX4324**
Prep Method: **SW-846 5030B TCLP**
Prep Date/Time: **11/13/2012 08:44**
Prep Initial Wt./Vol.: **40 mL**
Prep Extract Vol: **40 mL**

Print Date: 11/28/2012

N.C. Certification # 481

Results of **East Trench Bedding-SW (TCLP)**

Client Sample ID: **East Trench Bedding-SW (TCLP)**
Client Project ID: **2012.0009**
Lab Sample ID: 31203610060-A
Lab Project ID: 31203610

Collection Date: 10/31/2012 12:00
Received Date: 11/05/2012 14:00
Matrix: Soil-Solid as dry weight
Solids (%): 100.00

Results by **SW-846 8260B-TCLP**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
1,1-Dichloroethene	ND	U	2.88	10.0	ug/L	10	11/13/2012 17:04
1,2-Dichloroethane	ND	U	2.96	10.0	ug/L	10	11/13/2012 17:04
1,4-Dichlorobenzene	ND	U	4.63	10.0	ug/L	10	11/13/2012 17:04
2-Butanone	ND	U	15.3	250	ug/L	10	11/13/2012 17:04
Benzene	ND	U	1.56	10.0	ug/L	10	11/13/2012 17:04
Carbon tetrachloride	ND	U	2.70	10.0	ug/L	10	11/13/2012 17:04
Chlorobenzene	ND	U	2.69	10.0	ug/L	10	11/13/2012 17:04
Chloroform	ND	U	1.84	10.0	ug/L	10	11/13/2012 17:04
Tetrachloroethene	**12.4**		2.64	10.0	ug/L	10	11/13/2012 17:04
Trichloroethene	ND	U	2.27	10.0	ug/L	10	11/13/2012 17:04
Vinyl chloride	ND	U	1.89	10.0	ug/L	10	11/13/2012 17:04
Surrogates							
1,2-Dichloroethane-d4	104			64.0-140	%	10	11/13/2012 17:04
4-Bromofluorobenzene	99.0			85.0-115	%	10	11/13/2012 17:04
Toluene d8	100			82.0-117	%	10	11/13/2012 17:04

Batch Information

Analytical Batch: **VMS2734**
Analytical Method: **SW-846 8260B-TCLP**
Instrument: **MSD8**
Analyst: **BWS**

Prep Batch: **VXX4324**
Prep Method: **SW-846 5030B TCLP**
Prep Date/Time: **11/13/2012 08:44**
Prep Initial Wt./Vol.: **40 mL**
Prep Extract Vol: **40 mL**

Print Date: 11/28/2012

N.C. Certification # 481

Results of **West Trench Bedding-SW (TCLP)**

Client Sample ID: **West Trench Bedding-SW (TCLP)**
Client Project ID: **2012.0009**
Lab Sample ID: 31203610061-A
Lab Project ID: 31203610

Collection Date: 10/31/2012 13:45
Received Date: 11/05/2012 14:00
Matrix: Soil-Solid as dry weight
Solids (%): 100.00

Results by **SW-846 8260B-TCLP**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
1,1-Dichloroethene	ND	U	2.88	10.0	ug/L	10	11/13/2012 17:29
1,2-Dichloroethane	ND	U	2.96	10.0	ug/L	10	11/13/2012 17:29
1,4-Dichlorobenzene	ND	U	4.63	10.0	ug/L	10	11/13/2012 17:29
2-Butanone	ND	U	15.3	250	ug/L	10	11/13/2012 17:29
Benzene	ND	U	1.56	10.0	ug/L	10	11/13/2012 17:29
Carbon tetrachloride	ND	U	2.70	10.0	ug/L	10	11/13/2012 17:29
Chlorobenzene	ND	U	2.69	10.0	ug/L	10	11/13/2012 17:29
Chloroform	ND	U	1.84	10.0	ug/L	10	11/13/2012 17:29
Tetrachloroethene	**9.80**	J	2.64	10.0	ug/L	10	11/13/2012 17:29
Trichloroethene	ND	U	2.27	10.0	ug/L	10	11/13/2012 17:29
Vinyl chloride	ND	U	1.89	10.0	ug/L	10	11/13/2012 17:29
Surrogates							
1,2-Dichloroethane-d4	97.0			64.0-140	%	10	11/13/2012 17:29
4-Bromofluorobenzene	100			85.0-115	%	10	11/13/2012 17:29
Toluene d8	97.0			82.0-117	%	10	11/13/2012 17:29

Batch Information

Analytical Batch: **VMS2734**
Analytical Method: **SW-846 8260B-TCLP**
Instrument: **MSD8**
Analyst: **BWS**

Prep Batch: **VXX4324**
Prep Method: **SW-846 5030B TCLP**
Prep Date/Time: **11/13/2012 08:44**
Prep Initial Wt./Vol.: **40 mL**
Prep Extract Vol: **40 mL**

Print Date: 11/28/2012

N.C. Certification # 481

Results of **West Trench Bedding-SS (TCLP)**

Client Sample ID: **West Trench Bedding-SS (TCLP)**
Client Project ID: **2012.0009**
Lab Sample ID: 31203610062-A
Lab Project ID: 31203610

Collection Date: 10/31/2012 14:35
Received Date: 11/05/2012 14:00
Matrix: Soil-Solid as dry weight
Solids (%): 100.00

Results by **SW-846 8260B-TCLP**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
1,1-Dichloroethene	ND	U	2.88	10.0	ug/L	10	11/13/2012 17:53
1,2-Dichloroethane	ND	U	2.96	10.0	ug/L	10	11/13/2012 17:53
1,4-Dichlorobenzene	ND	U	4.63	10.0	ug/L	10	11/13/2012 17:53
2-Butanone	ND	U	15.3	250	ug/L	10	11/13/2012 17:53
Benzene	ND	U	1.56	10.0	ug/L	10	11/13/2012 17:53
Carbon tetrachloride	ND	U	2.70	10.0	ug/L	10	11/13/2012 17:53
Chlorobenzene	ND	U	2.69	10.0	ug/L	10	11/13/2012 17:53
Chloroform	ND	U	1.84	10.0	ug/L	10	11/13/2012 17:53
Tetrachloroethene	**38.2**		2.64	10.0	ug/L	10	11/13/2012 17:53
Trichloroethene	ND	U	2.27	10.0	ug/L	10	11/13/2012 17:53
Vinyl chloride	ND	U	1.89	10.0	ug/L	10	11/13/2012 17:53
Surrogates							
1,2-Dichloroethane-d4	99.0			64.0-140	%	10	11/13/2012 17:53
4-Bromofluorobenzene	99.0			85.0-115	%	10	11/13/2012 17:53
Toluene d8	102			82.0-117	%	10	11/13/2012 17:53

Batch Information

Analytical Batch: **VMS2734**
Analytical Method: **SW-846 8260B-TCLP**
Instrument: **MSD8**
Analyst: **BWS**

Prep Batch: **VXX4324**
Prep Method: **SW-846 5030B TCLP**
Prep Date/Time: **11/13/2012 08:44**
Prep Initial Wt./Vol.: **40 mL**
Prep Extract Vol: **40 mL**

Print Date: 11/28/2012

N.C. Certification # 481

Results of **IDW-Box 1 (TCLP)**

Client Sample ID: **IDW-Box 1 (TCLP)**
Client Project ID: **2012.0009**
Lab Sample ID: 31203610063-A
Lab Project ID: 31203610

Collection Date: 10/31/2012 15:30
Received Date: 11/05/2012 14:00
Matrix: Soil-Solid as dry weight
Solids (%): 100.00

Results by **SW-846 8260B-TCLP**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
1,1-Dichloroethene	ND	U	2.88	10.0	ug/L	10	11/13/2012 18:18
1,2-Dichloroethane	ND	U	2.96	10.0	ug/L	10	11/13/2012 18:18
1,4-Dichlorobenzene	ND	U	4.63	10.0	ug/L	10	11/13/2012 18:18
2-Butanone	ND	U	15.3	250	ug/L	10	11/13/2012 18:18
Benzene	ND	U	1.56	10.0	ug/L	10	11/13/2012 18:18
Carbon tetrachloride	ND	U	2.70	10.0	ug/L	10	11/13/2012 18:18
Chlorobenzene	ND	U	2.69	10.0	ug/L	10	11/13/2012 18:18
Chloroform	ND	U	1.84	10.0	ug/L	10	11/13/2012 18:18
Tetrachloroethene	ND	U	2.64	10.0	ug/L	10	11/13/2012 18:18
Trichloroethene	ND	U	2.27	10.0	ug/L	10	11/13/2012 18:18
Vinyl chloride	ND	U	1.89	10.0	ug/L	10	11/13/2012 18:18
Surrogates							
1,2-Dichloroethane-d4	113			64.0-140	%	10	11/13/2012 18:18
4-Bromofluorobenzene	104			85.0-115	%	10	11/13/2012 18:18
Toluene d8	104			82.0-117	%	10	11/13/2012 18:18

Batch Information

Analytical Batch: **VMS2734**
Analytical Method: **SW-846 8260B-TCLP**
Instrument: **MSD8**
Analyst: **BWS**

Prep Batch: **VXX4324**
Prep Method: **SW-846 5030B TCLP**
Prep Date/Time: **11/13/2012 08:44**
Prep Initial Wt./Vol.: **40 mL**
Prep Extract Vol: **40 mL**

Print Date: 11/28/2012

N.C. Certification # 481

Results of **IDW-Box 2 (TCLP)**

Client Sample ID: **IDW-Box 2 (TCLP)**
Client Project ID: **2012.0009**
Lab Sample ID: 31203610064-A
Lab Project ID: 31203610

Collection Date: 10/31/2012 16:00
Received Date: 11/05/2012 14:00
Matrix: Soil-Solid as dry weight
Solids (%): 100.00

Results by **SW-846 8260B-TCLP**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
1,1-Dichloroethene	ND	U	2.88	10.0	ug/L	10	11/13/2012 18:42
1,2-Dichloroethane	ND	U	2.96	10.0	ug/L	10	11/13/2012 18:42
1,4-Dichlorobenzene	ND	U	4.63	10.0	ug/L	10	11/13/2012 18:42
2-Butanone	ND	U	15.3	250	ug/L	10	11/13/2012 18:42
Benzene	ND	U	1.56	10.0	ug/L	10	11/13/2012 18:42
Carbon tetrachloride	ND	U	2.70	10.0	ug/L	10	11/13/2012 18:42
Chlorobenzene	ND	U	2.69	10.0	ug/L	10	11/13/2012 18:42
Chloroform	ND	U	1.84	10.0	ug/L	10	11/13/2012 18:42
Tetrachloroethene	ND	U	2.64	10.0	ug/L	10	11/13/2012 18:42
Trichloroethene	ND	U	2.27	10.0	ug/L	10	11/13/2012 18:42
Vinyl chloride	ND	U	1.89	10.0	ug/L	10	11/13/2012 18:42
Surrogates							
1,2-Dichloroethane-d4	100			64.0-140	%	10	11/13/2012 18:42
4-Bromofluorobenzene	102			85.0-115	%	10	11/13/2012 18:42
Toluene d8	103			82.0-117	%	10	11/13/2012 18:42

Batch Information

Analytical Batch: **VMS2734**
Analytical Method: **SW-846 8260B-TCLP**
Instrument: **MSD8**
Analyst: **BWS**

Prep Batch: **VXX4324**
Prep Method: **SW-846 5030B TCLP**
Prep Date/Time: **11/13/2012 08:44**
Prep Initial Wt./Vol.: **40 mL**
Prep Extract Vol: **40 mL**

Print Date: 11/28/2012

N.C. Certification # 481

Results of **IDW-Box 3 (TCLP)**

Client Sample ID: **IDW-Box 3 (TCLP)**
Client Project ID: **2012.0009**
Lab Sample ID: 31203610065-A
Lab Project ID: 31203610

Collection Date: 10/31/2012 16:15
Received Date: 11/05/2012 14:00
Matrix: Soil-Solid as dry weight
Solids (%): 100.00

Results by **SW-846 8260B-TCLP**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
1,1-Dichloroethene	ND	U	2.88	10.0	ug/L	10	11/13/2012 19:07
1,2-Dichloroethane	ND	U	2.96	10.0	ug/L	10	11/13/2012 19:07
1,4-Dichlorobenzene	ND	U	4.63	10.0	ug/L	10	11/13/2012 19:07
2-Butanone	ND	U	15.3	250	ug/L	10	11/13/2012 19:07
Benzene	ND	U	1.56	10.0	ug/L	10	11/13/2012 19:07
Carbon tetrachloride	ND	U	2.70	10.0	ug/L	10	11/13/2012 19:07
Chlorobenzene	ND	U	2.69	10.0	ug/L	10	11/13/2012 19:07
Chloroform	ND	U	1.84	10.0	ug/L	10	11/13/2012 19:07
Tetrachloroethene	ND	U	2.64	10.0	ug/L	10	11/13/2012 19:07
Trichloroethene	ND	U	2.27	10.0	ug/L	10	11/13/2012 19:07
Vinyl chloride	ND	U	1.89	10.0	ug/L	10	11/13/2012 19:07
Surrogates							
1,2-Dichloroethane-d4	97.0			64.0-140	%	10	11/13/2012 19:07
4-Bromofluorobenzene	99.0			85.0-115	%	10	11/13/2012 19:07
Toluene d8	97.0			82.0-117	%	10	11/13/2012 19:07

Batch Information

Analytical Batch: **VMS2734**
Analytical Method: **SW-846 8260B-TCLP**
Instrument: **MSD8**
Analyst: **BWS**

Prep Batch: **VXX4324**
Prep Method: **SW-846 5030B TCLP**
Prep Date/Time: **11/13/2012 08:44**
Prep Initial Wt./Vol.: **40 mL**
Prep Extract Vol: **40 mL**

Print Date: 11/28/2012

N.C. Certification # 481

Batch Summary

Analytical Method: SW-846 8260B

Prep Method: SW-846 5030B
Prep Batch: VXX4285
Prep Date: 11/06/2012 07:48

Client Sample ID	Lab Sample ID	Analysis Date	Analytical Batch	Instrument	Analyst
LCS for HBN 31259 [VXX/4285]	98239	11/06/2012 09:13	VMS2714	MSD3	DVO
LCSD for HBN 31259 [VXX/4285]	98240	11/06/2012 09:37	VMS2714	MSD3	DVO
MB for HBN 31259 [VXX/4285]	98241	11/06/2012 11:12	VMS2714	MSD3	DVO
West Trench Water-SW	31203610006	11/06/2012 12:55	VMS2714	MSD3	DVO
MW-8	31203610001	11/06/2012 13:19	VMS2714	MSD3	DVO
MW-4	31203610002	11/06/2012 13:44	VMS2714	MSD3	DVO
MW-8	31203610001	11/06/2012 14:09	VMS2714	MSD3	DVO
MW-4	31203610002	11/06/2012 14:35	VMS2714	MSD3	DVO
MW-4(98114MS)	98528	11/06/2012 15:26	VMS2714	MSD3	DVO
MW-4(98114MSD)	98529	11/06/2012 15:52	VMS2714	MSD3	DVO

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Method Blank

Blank ID: MB for HBN 31259 [VXX/4285]
Blank Lab ID: 98241
QC for Samples:
31203610001, 31203610002, 31203610006

Matrix: Water

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF
Dichlorodifluoromethane	ND	U	0.283	5.00	ug/L	1
Chloromethane	ND	U	0.295	1.00	ug/L	1
Vinyl chloride	ND	U	0.386	1.00	ug/L	1
Bromomethane	ND	U	0.507	1.00	ug/L	1
Chloroethane	ND	U	0.902	1.00	ug/L	1
Trichlorofluoromethane	ND	U	0.308	1.00	ug/L	1
1,1-Dichloroethene	ND	U	0.202	1.00	ug/L	1
Acetone	ND	U	2.56	25.0	ug/L	1
Methylene chloride	ND	U	0.199	5.00	ug/L	1
trans-1,2-Dichloroethene	ND	U	0.247	1.00	ug/L	1
tert-Butyl methyl ether (MTBE)	ND	U	0.195	1.00	ug/L	1
1,1-Dichloroethane	ND	U	0.162	1.00	ug/L	1
Diisopropyl Ether	ND	U	0.134	1.00	ug/L	1
2,2-Dichloropropane	ND	U	0.194	1.00	ug/L	1
cis-1,2-Dichloroethene	ND	U	0.179	1.00	ug/L	1
2-Butanone	ND	U	1.39	25.0	ug/L	1
Bromochloromethane	ND	U	0.134	1.00	ug/L	1
Chloroform	ND	U	0.205	1.00	ug/L	1
1,1,1-Trichloroethane	ND	U	0.221	1.00	ug/L	1
Carbon tetrachloride	ND	U	0.169	1.00	ug/L	1
1,1-Dichloropropene	ND	U	0.176	1.00	ug/L	1
Benzene	ND	U	0.156	1.00	ug/L	1
1,2-Dichloroethane	ND	U	0.139	1.00	ug/L	1
Trichloroethene	ND	U	0.199	1.00	ug/L	1
1,2-Dichloropropane	ND	U	0.158	1.00	ug/L	1
Dibromomethane	ND	U	0.171	1.00	ug/L	1
Bromodichloromethane	ND	U	0.222	1.00	ug/L	1
cis-1,3-Dichloropropene	ND	U	0.185	1.00	ug/L	1
4-Methyl-2-pentanone	ND	U	1.15	5.00	ug/L	1
Toluene	ND	U	0.180	1.00	ug/L	1
Methyl iodide	ND	U	0.247	1.00	ug/L	1
trans-1,3-Dichloropropene	ND	U	0.167	1.00	ug/L	1
Carbon disulfide	ND	U	0.197	1.00	ug/L	1
1,1,2-Trichloroethane	ND	U	0.216	1.00	ug/L	1
Tetrachloroethene	ND	U	0.225	1.00	ug/L	1
1,3-Dichloropropane	ND	U	0.198	1.00	ug/L	1
2-Hexanone	ND	U	1.39	5.00	ug/L	1
Dibromochloromethane	ND	U	0.173	1.00	ug/L	1
1,2-Dibromoethane	ND	U	0.179	1.00	ug/L	1
Chlorobenzene	ND	U	0.158	1.00	ug/L	1
1,1,1,2-Tetrachloroethane	ND	U	0.175	1.00	ug/L	1

Print Date: 11/28/2012

N.C. Certification # 481

Method Blank

Blank ID: MB for HBN 31259 [VXX/4285]
Blank Lab ID: 98241
QC for Samples:
31203610001, 31203610002, 31203610006

Matrix: Water

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF
Bromoform	ND	U	0.208	1.00	ug/L	1
Bromobenzene	ND	U	0.205	1.00	ug/L	1
1,1,2,2-Tetrachloroethane	ND	U	0.223	1.00	ug/L	1
1,2,3-Trichloropropane	ND	U	0.210	1.00	ug/L	1
Ethyl Benzene	ND	U	0.186	1.00	ug/L	1
m,p-Xylene	ND	U	0.407	2.00	ug/L	1
Styrene	ND	U	0.207	1.00	ug/L	1
o-Xylene	ND	U	0.195	1.00	ug/L	1
Xylene (total)	ND	U	0.602	2.00	ug/L	1
Isopropylbenzene (Cumene)	ND	U	0.196	1.00	ug/L	1
n-Propylbenzene	ND	U	0.185	1.00	ug/L	1
2-Chlorotoluene	ND	U	0.160	1.00	ug/L	1
4-Chlorotoluene	ND	U	0.259	1.00	ug/L	1
1,3,5-Trimethylbenzene	ND	U	0.159	1.00	ug/L	1
tert-Butylbenzene	ND	U	0.239	1.00	ug/L	1
1,2,4-Trimethylbenzene	ND	U	0.179	1.00	ug/L	1
sec-Butylbenzene	ND	U	0.151	1.00	ug/L	1
1,3-Dichlorobenzene	ND	U	0.180	1.00	ug/L	1
4-Isopropyltoluene	ND	U	0.170	1.00	ug/L	1
1,4-Dichlorobenzene	ND	U	0.243	1.00	ug/L	1
1,2-Dichlorobenzene	ND	U	0.214	1.00	ug/L	1
n-Butylbenzene	ND	U	0.168	1.00	ug/L	1
1,2-Dibromo-3-chloropropane	ND	U	1.88	5.00	ug/L	1
1,2,4-Trichlorobenzene	ND	U	0.220	1.00	ug/L	1
Hexachlorobutadiene	ND	U	0.365	1.00	ug/L	1
Naphthalene	ND	U	0.260	1.00	ug/L	1
trans-1,4-Dichloro-2-butene	ND	U	1.25	5.00	ug/L	1
1,2,3-Trichlorobenzene	ND	U	0.246	1.00	ug/L	1
Surrogates						
1,2-Dichloroethane-d4	93.0			64.0-140	%	1
Toluene d8	106			82.0-117	%	1
4-Bromofluorobenzene	106			85.0-115	%	1

Batch Information

Analytical Batch: VMS2714
Analytical Method: SW-846 8260B
Instrument: MSD3
Analyst: DVO

Prep Batch: VXX4285
Prep Method: SW-846 5030B
Prep Date/Time: 11/6/2012 7:48:41AM
Prep Initial Wt./Vol.: 40 mL
Prep Extract Vol: 40 mL

Print Date: 11/28/2012

N.C. Certification # 481

Blank Spike Summary

Blank Spike ID: LCS for HBN 31259 [VXX/4285]
Blank Spike Lab ID: 98239
Date Analyzed: 11/06/2012 09:13

Spike Duplicate ID: LCSD for HBN 31259 [VXX/4285]
Spike Duplicate Lab ID: 98240
Date Analyzed: 11/06/2012 09:37
Matrix: Water

QC for Samples: 31203610001, 31203610002, 31203610006

Results by **SW-846 8260B**

	Blank Spike (ug/L)			Spike Duplicate (ug/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Dichlorodifluoromethane	5.00	6.26	125	5.00	6.47	129	33.0-170	3.3	30.00
Chloromethane	5.00	5.73	115	5.00	6.04	121	57.0-132	5.3	30.00
Vinyl chloride	5.00	5.19	104	5.00	5.32	106	59.0-138	2.5	30.00
Bromomethane	5.00	15.0	**299***	5.00	15.0	**299***	51.0-134	0.0	30.00
Chloroethane	5.00	5.56	111	5.00	5.46	109	64.0-145	1.8	30.00
Trichlorofluoromethane	5.00	5.16	103	5.00	5.27	105	64.0-133	2.1	30.00
1,1-Dichloroethene	5.00	4.88	98	5.00	5.34	107	71.0-128	9.0	30.00
Acetone	25.0	33.3	133	25.0	33.8	135	52.0-140	1.5	30.00
Methylene chloride	5.00	4.94	99	5.00	5.16	103	70.0-113	4.4	30.00
trans-1,2-Dichloroethene	5.00	4.82	96	5.00	4.95	99	57.0-138	2.7	30.00
tert-Butyl methyl ether (MTBE)	5.00	5.00	100	5.00	5.07	101	47.0-142	1.4	30.00
1,1-Dichloroethane	5.00	4.91	98	5.00	4.95	99	68.0-133	0.81	30.00
Diisopropyl Ether	5.00	5.13	103	5.00	5.26	105	66.0-132	2.5	30.00
2,2-Dichloropropane	5.00	4.95	99	5.00	5.10	102	74.0-125	3.0	30.00
cis-1,2-Dichloroethene	5.00	4.94	99	5.00	5.16	103	73.0-128	4.4	30.00
2-Butanone	25.0	25.9	103	25.0	26.3	105	58.0-134	1.5	30.00
Bromochloromethane	5.00	5.14	103	5.00	5.25	105	73.0-128	2.1	30.00
Chloroform	5.00	4.90	98	5.00	5.13	103	74.0-124	4.6	30.00
1,1,1-Trichloroethane	5.00	4.93	99	5.00	4.99	100	76.0-119	1.2	30.00
Carbon tetrachloride	5.00	4.76	95	5.00	4.99	100	75.0-120	4.7	30.00
1,1-Dichloropropene	5.00	5.07	101	5.00	5.28	106	76.0-124	4.1	30.00
Benzene	5.00	5.15	103	5.00	5.25	105	76.0-124	1.9	30.00
1,2-Dichloroethane	5.00	4.78	96	5.00	5.06	101	76.0-119	5.7	30.00
Trichloroethene	5.00	5.17	103	5.00	5.28	106	74.0-121	2.1	30.00
1,2-Dichloropropane	5.00	5.03	101	5.00	5.04	101	74.0-124	0.20	30.00
Dibromomethane	5.00	4.78	96	5.00	4.96	99	71.0-128	3.7	30.00
Bromodichloromethane	5.00	4.89	98	5.00	5.03	101	72.0-120	2.8	30.00
cis-1,3-Dichloropropene	5.00	4.85	97	5.00	5.00	100	73.0-122	3.0	30.00
4-Methyl-2-pentanone	25.0	23.3	93	25.0	23.9	96	65.0-124	2.5	30.00
Toluene	5.00	5.30	106	5.00	5.40	108	75.0-123	1.9	30.00
Methyl iodide	5.00	5.47	109	5.00	5.61	112	55.0-123	2.5	30.00
trans-1,3-Dichloropropene	5.00	4.97	99	5.00	5.11	102	70.0-125	2.8	30.00
Carbon disulfide	5.00	5.28	106	5.00	5.34	107	65.0-132	1.1	30.00
1,1,2-Trichloroethane	5.00	4.42	88	5.00	4.40	88	76.0-121	0.45	30.00

Print Date: 11/28/2012

N.C. Certification # 481

Blank Spike Summary

Blank Spike ID: LCS for HBN 31259 [VXX/4285]
Blank Spike Lab ID: 98239
Date Analyzed: 11/06/2012 09:13

Spike Duplicate ID: LCSD for HBN 31259 [VXX/4285]
Spike Duplicate Lab ID: 98240
Date Analyzed: 11/06/2012 09:37
Matrix: Water

QC for Samples: 31203610001, 31203610002, 31203610006

Results by **SW-846 8260B**

	Blank Spike (ug/L)			Spike Duplicate (ug/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Tetrachloroethene	5.00	4.56	91	5.00	4.57	91	59.0-112	0.22	30.00
1,3-Dichloropropane	5.00	4.51	90	5.00	4.57	91	74.0-120	1.3	30.00
2-Hexanone	25.0	19.7	79	25.0	20.5	82	56.0-133	4.0	30.00
Dibromochloromethane	5.00	4.39	88	5.00	4.43	89	67.0-122	0.91	30.00
1,2-Dibromoethane	5.00	4.59	92	5.00	4.52	90	74.0-119	1.5	30.00
Chlorobenzene	5.00	4.45	89	5.00	4.58	92	74.0-120	2.9	30.00
1,1,1,2-Tetrachloroethane	5.00	4.41	88	5.00	4.50	90	73.0-119	2.0	30.00
Bromoform	5.00	4.40	88	5.00	4.56	91	62.0-127	3.6	30.00
Bromobenzene	5.00	4.52	90	5.00	4.57	91	75.0-120	1.1	30.00
1,1,2,2-Tetrachloroethane	5.00	4.25	85	5.00	4.46	89	68.0-129	4.8	30.00
1,2,3-Trichloropropane	5.00	4.29	86	5.00	4.41	88	67.0-126	2.8	30.00
Ethyl Benzene	5.00	4.19	84	5.00	4.26	85	76.0-123	1.7	30.00
m,p-Xylene	10.0	8.69	87	10.0	8.85	89	76.0-124	1.8	30.00
Styrene	5.00	4.34	87	5.00	4.35	87	76.0-121	0.23	30.00
o-Xylene	5.00	4.35	87	5.00	4.40	88	75.0-124	1.1	30.00
Isopropylbenzene (Cumene)	5.00	4.40	88	5.00	4.41	88	77.0-120	0.23	30.00
n-Propylbenzene	5.00	4.17	83	5.00	4.21	84	77.0-123	0.95	30.00
2-Chlorotoluene	5.00	4.47	89	5.00	4.45	89	74.0-127	0.45	30.00
4-Chlorotoluene	5.00	4.23	85	5.00	4.31	86	77.0-123	1.9	30.00
1,3,5-Trimethylbenzene	5.00	4.29	86	5.00	4.41	88	76.0-122	2.8	30.00
tert-Butylbenzene	5.00	4.46	89	5.00	4.54	91	67.0-122	1.8	30.00
1,2,4-Trimethylbenzene	5.00	4.32	86	5.00	4.34	87	76.0-124	0.46	30.00
sec-Butylbenzene	5.00	4.41	88	5.00	4.45	89	78.0-121	0.90	30.00
1,3-Dichlorobenzene	5.00	4.38	88	5.00	4.47	89	75.0-120	2.0	30.00
4-Isopropyltoluene	5.00	4.37	87	5.00	4.43	89	77.0-120	1.4	30.00
1,4-Dichlorobenzene	5.00	4.40	88	5.00	4.43	89	70.0-125	0.68	30.00
1,2-Dichlorobenzene	5.00	4.25	85	5.00	4.24	85	76.0-118	0.24	30.00
n-Butylbenzene	5.00	4.28	86	5.00	4.35	87	78.0-118	1.6	30.00
1,2-Dibromo-3-chloropropane	30.0	22.8	76	30.0	23.6	79	62.0-130	3.4	30.00
1,2,4-Trichlorobenzene	5.00	4.26	85	5.00	4.21	84	72.0-119	1.2	30.00
Hexachlorobutadiene	5.00	4.54	91	5.00	4.46	89	69.0-121	1.8	30.00
Naphthalene	5.00	3.94	79	5.00	4.07	81	67.0-122	3.2	30.00
trans-1,4-Dichloro-2-butene	25.0	20.1	80	25.0	20.6	83	61.0-132	2.5	30.00
1,2,3-Trichlorobenzene	5.00	4.12	82	5.00	4.17	83	68.0-123	1.2	30.00

Print Date: 11/28/2012

N.C. Certification # 481

Blank Spike Summary

Blank Spike ID: LCS for HBN 31259 [VXX/4285]
Blank Spike Lab ID: 98239
Date Analyzed: 11/06/2012 09:13

Spike Duplicate ID: LCSD for HBN 31259 [VXX/4285]
Spike Duplicate Lab ID: 98240
Date Analyzed: 11/06/2012 09:37
Matrix: Water

QC for Samples: 31203610001, 31203610002, 31203610006

Results by **SW-846 8260B**

	Blank Spike (ug/L)			Spike Duplicate (ug/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Surrogates									
1,2-Dichloroethane-d4			91			92	64.0-140		
Toluene d8			105			105	82.0-117		
4-Bromofluorobenzene			104			105	85.0-115		

Batch Information

Analytical Batch: **VMS2714**
Analytical Method: **SW-846 8260B**
Instrument: **MSD3**
Analyst: **DVO**

Prep Batch: **VXX4285**
Prep Method: **SW-846 5030B**
Prep Date/Time: **11/06/2012 07:48**
Spike Init Wt./Vol.: **40 mL** Extract Vol: **40 mL**
Dupe Init Wt./Vol.: **40 mL** Extract Vol: **40 mL**

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Matrix Spike Summary

Original Sample ID: 31203610002 (MW-4)
MS Sample ID: 98528
MSD Sample ID: 98529

QC for Samples: 31203610001, 31203610002, 31203610006

Analysis Date: 11/06/2012 14:35
Analysis Date: 11/06/2012 15:26
Analysis Date: 11/06/2012 15:52
Matrix: Water

Results by **SW-846 8260B**

		Matrix Spike (ug/L)			Spike Duplicate (ug/L)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
1,1,1,2-Tetrachloroethane	ND	6250	5360	86	6250	4980	80	69.0-120	7.4	30.00
1,1,2,2-Tetrachloroethane	ND	6250	5410	87	6250	5040	81	76.0-136	7.1	30.00
1,1,2-Trichloroethane	ND	6250	5450	87	6250	5000	80	65.0-128	8.6	30.00
1,1-Dichloroethane	7.00	6250	6030	96	6250	5650	90	76.0-128	6.5	30.00
1,1-Dichloropropene	ND	6250	6190	99	6250	5590	89	73.0-120	10	30.00
1,2,3-Trichlorobenzene	ND	6250	4490	72	6250	4330	69	61.0-126	3.6	30.00
1,2,3-Trichloropropane	ND	6250	5200	83	6250	4880	78	10.0-218	6.3	30.00
1,2,4-Trichlorobenzene	ND	6250	4750	76	6250	4560	73	61.0-125	4.1	30.00
1,2,4-Trimethylbenzene	ND	6250	5140	82	6250	4810	77	31.0-172	6.6	30.00
1,2-Dibromo-3-chloropropane	ND	37500	27900	74	37500	26300	70	20.0-171	5.9	30.00
1,2-Dibromoethane	ND	6250	5590	89	6250	5110	82	79.0-123	9.0	30.00
1,2-Dichlorobenzene	15.0	6250	5130	82	6250	4880	78	75.0-120	5.0	30.00
1,2-Dichloroethane	ND	6250	5980	96	6250	5600	90	71.0-127	6.6	30.00
1,2-Dichloropropane	ND	6250	6210	99	6250	5680	91	77.0-129	8.9	30.00
1,3,5-Trimethylbenzene	ND	6250	5110	82	6250	4850	78	68.0-132	5.2	30.00
1,3-Dichlorobenzene	ND	6250	5140	82	6250	4900	78	73.0-121	4.8	30.00
1,3-Dichloropropane	ND	6250	5560	89	6250	5140	82	79.0-121	7.9	30.00
1,4-Dichlorobenzene	ND	6250	5200	83	6250	4950	79	75.0-118	4.9	30.00
2,2-Dichloropropane	ND	6250	6030	96	6250	5430	87	32.0-157	10	30.00
2-Butanone	ND	31300	25600	82	31300	24200	77	36.0-107	5.6	30.00
2-Chlorotoluene	ND	6250	5260	84	6250	5090	81	79.0-118	3.3	30.00
2-Hexanone	ND	31300	21600	69	31300	19600	63	42.0-111	9.7	30.00
4-Chlorotoluene	ND	6250	5110	82	6250	4790	77	77.0-120	6.5	30.00
4-Isopropyltoluene	ND	6250	5050	81	6250	4750	76	75.0-122	6.1	30.00
4-Methyl-2-pentanone	ND	31300	29200	93	31300	26900	86	6.90-166	8.2	30.00
Acetone	398	31300	24200	77	31300	22700	73	18.0-85.0	6.4	30.00
Benzene	ND	6250	6340	101	6250	5790	93	62.0-135	9.1	30.00
Bromobenzene	ND	6250	5390	86	6250	5190	83	65.0-125	3.8	30.00
Bromochloromethane	ND	6250	6000	96	6250	5640	90	76.0-126	6.2	30.00
Bromodichloromethane	ND	6250	6030	96	6250	5650	90	74.0-123	6.5	30.00
Bromoform	ND	6250	5440	87	6250	4840	77	52.0-122	12	30.00
Bromomethane	ND	6250	19700	315 *	6250	17800	284	10.0-284	10	30.00
n-Butylbenzene	ND	6250	5000	80	6250	4660	75	70.0-124	7.0	30.00
Carbon disulfide	ND	6250	6340	101	6250	5810	93	69.0-129	8.7	30.00
Carbon tetrachloride	ND	6250	6130	98	6250	5550	89	72.0-122	9.9	30.00
Chlorobenzene	ND	6250	5450	87	6250	5060	81	77.0-118	7.4	30.00
Chloroethane	ND	6250	6950	111	6250	6660	107	10.0-233	4.3	30.00
Chloroform	ND	6250	6090	97	6250	5700	91	74.0-128	6.6	30.00

Print Date: 11/28/2012

N.C. Certification # 481

Matrix Spike Summary

Original Sample ID: 31203610002 (MW-4)
MS Sample ID: 98528
MSD Sample ID: 98529

QC for Samples: 31203610001, 31203610002, 31203610006

Analysis Date: 11/06/2012 14:35
Analysis Date: 11/06/2012 15:26
Analysis Date: 11/06/2012 15:52
Matrix: Water

Results by **SW-846 8260B**

		Matrix Spike (ug/L)			Spike Duplicate (ug/L)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Chloromethane	ND	6250	7990	128	6250	7390	118	72.0-138	7.8	30.00
Dibromochloromethane	ND	6250	5410	87	6250	4930	79	69.0-117	9.3	30.00
Dibromomethane	ND	6250	5790	93	6250	5600	90	71.0-137	3.3	30.00
Dichlorodifluoromethane	ND	6250	8340	133	6250	7800	125	42.0-166	6.7	30.00
cis-1,3-Dichloropropene	ND	6250	5930	95	6250	5650	90	67.0-132	4.8	30.00
trans-1,3-Dichloropropene	ND	6250	5880	94	6250	5590	89	45.0-144	5.1	30.00
Diisopropyl Ether	ND	6250	6380	102	6250	6010	96	79.0-122	6.0	30.00
Ethyl Benzene	70.5	6250	5080	80	6250	4810	76	74.0-126	5.5	30.00
Hexachlorobutadiene	ND	6250	5060	81	6250	4700	75	52.0-134	7.4	30.00
Isopropylbenzene (Cumene)	ND	6250	5240	84	6250	4890	78	74.0-123	6.9	30.00
Methyl iodide	ND	6250	6230	100	6250	6000	96	41.0-126	3.8	30.00
Methylene chloride	ND	6250	6160	99	6250	5780	92	49.0-155	6.4	30.00
Naphthalene	ND	6250	4460	71	6250	4180	67	55.0-140	6.5	30.00
Styrene	ND	6250	5110	82	6250	4800	77	73.0-123	6.3	30.00
Toluene	35.8	6250	6600	105	6250	6150	98	66.0-128	7.1	30.00
Trichlorofluoromethane	124	6250	6780	106	6250	6180	97	77.0-132	9.3	30.00
Vinyl chloride	ND	6250	6780	108	6250	6300	101	68.0-137	7.3	30.00
cis-1,2-Dichloroethene	ND	6250	6040	97	6250	5600	90	73.0-134	7.6	30.00
m,p-Xylene	246	12500	10700	83	12500	10100	79 *	80.0-118	5.8	30.00
n-Propylbenzene	ND	6250	5250	84	6250	4930	79	72.0-128	6.3	30.00
o-Xylene	60.5	6250	5280	83	6250	4850	77 *	80.0-121	8.5	30.00
sec-Butylbenzene	ND	6250	5110	82	6250	4780	76	62.0-133	6.7	30.00
tert-Butyl methyl ether (MTBE)	ND	6250	6040	97	6250	5630	90	67.0-136	7.0	30.00
tert-Butylbenzene	ND	6250	5150	82	6250	4890	78	74.0-121	5.2	30.00
trans-1,2-Dichloroethene	ND	6250	5810	93	6250	5360	86	75.0-124	8.1	30.00
trans-1,4-Dichloro-2-butene	ND	31300	22900	73	31300	21900	70	26.0-149	4.5	30.00

Surrogates

1,2-Dichloroethane-d4	92	91	64.0-140
4-Bromofluorobenzene	105	106	85.0-115
Toluene d8	107	107	82.0-117

Batch Information

Analytical Batch: **VMS2714**
Analytical Method: **SW-846 8260B**
Instrument: **MSD3**
Analyst: **DVO**

Prep Batch: **VXX4285**
Prep Method: **SW-846 5030B**
Prep Date/Time: **11/06/2012 08:00**
MS Init Wt./Vol.: **40 mL** Extract Vol.: **40 mL**
MSD Init Wt./Vol.: **40 mL** Extract Vol.: **40 mL**

Print Date: 11/28/2012

N.C. Certification # 481

Batch Summary

Analytical Method: SW-846 8260B

Prep Method: SW-846 5030B
Prep Batch: VXX4298
Prep Date: 11/07/2012 09:28

Client Sample ID	Lab Sample ID	Analysis Date	Analytical Batch	Instrument	Analyst
LCS for HBN 31312 [VXX/4298]	98478	11/07/2012 10:29	VMS2721	MSD3	DVO
LCSD for HBN 31312 [VXX/4298]	98479	11/07/2012 10:53	VMS2721	MSD3	DVO
MB for HBN 31312 [VXX/4298]	98480	11/07/2012 11:40	VMS2721	MSD3	DVO
West Trench Water-SW	31203610006	11/07/2012 19:05	VMS2721	MSD3	DVO
SG-18(98345DUP)	99021	11/07/2012 19:30	VMS2721	MSD3	DVO
SG-16(98343MS)	99022	11/07/2012 19:55	VMS2721	MSD3	DVO

Print Date: 11/28/2012

N.C. Certification # 481

Method Blank

Blank ID: MB for HBN 31312 [VXX/4298]
Blank Lab ID: 98480
QC for Samples:
31203610006

Matrix: Water

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF
Acetone	ND	U	2.56	25.0	ug/L	1

Batch Information

Analytical Batch: VMS2721
Analytical Method: SW-846 8260B
Instrument: MSD3
Analyst: DVO

Prep Batch: VXX4298
Prep Method: SW-846 5030B
Prep Date/Time: 11/7/2012 9:28:53AM
Prep Initial Wt./Vol.: 40 mL
Prep Extract Vol: 40 mL

Print Date: 11/28/2012

N.C. Certification # 481

Blank Spike Summary

Blank Spike ID: LCS for HBN 31312 [VXX/4298]
Blank Spike Lab ID: 98478
Date Analyzed: 11/07/2012 10:29

QC for Samples: 31203610006

Spike Duplicate ID: LCSD for HBN 31312 [VXX/4298]
Spike Duplicate Lab ID: 98479
Date Analyzed: 11/07/2012 10:53
Matrix: Water

Results by **SW-846 8260B**

	Blank Spike (ug/L)			Spike Duplicate (ug/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Acetone	25.0	25.8	103	25.0	33.0	132	52.0-140	24	30.00

Batch Information

Analytical Batch: **VMS2721**
Analytical Method: **SW-846 8260B**
Instrument: **MSD3**
Analyst: **DVO**

Prep Batch: **VXX4298**
Prep Method: **SW-846 5030B**
Prep Date/Time: **11/07/2012 09:28**
Spike Init Wt./Vol.: **40 mL** Extract Vol: **40 mL**
Dupe Init Wt./Vol.: **40 mL** Extract Vol: **40 mL**

Print Date: 11/28/2012

N.C. Certification # 481

Batch Summary

Analytical Method: SW-846 8260B

Prep Method: SW-846 5035 SL
Prep Batch: VXX4299
Prep Date: 11/08/2012 08:23

Client Sample ID	Lab Sample ID	Analysis Date	Analytical Batch	Instrument	Analyst
LCS-S for HBN 31341 [VXX/4299]	98641	11/08/2012 09:55	VMS2722	MSD9	DVO
LCSD-S for HBN 31341 [VXX/4299	98642	11/08/2012 10:21	VMS2722	MSD9	DVO
MB-S for HBN 31341 [VXX/4299]	98643	11/08/2012 11:14	VMS2722	MSD9	DVO
IDW-Box 3	31203610010	11/08/2012 14:08	VMS2722	MSD9	DVO
SB40-1-2	31203610012	11/08/2012 15:01	VMS2722	MSD9	DVO
SB40-2-3	31203610013	11/08/2012 15:28	VMS2722	MSD9	DVO
SB40-3-4	31203610014	11/08/2012 15:55	VMS2722	MSD9	DVO
SB41-3-4	31203610022	11/08/2012 17:14	VMS2722	MSD9	DVO
SB42-1-2	31203610028	11/08/2012 17:41	VMS2722	MSD9	DVO
SB42-3-4	31203610030	11/08/2012 18:07	VMS2722	MSD9	DVO
SB42-2-3	31203610029	11/08/2012 19:00	VMS2722	MSD9	DVO
TB1-S030B(98508DUP)	98970	11/08/2012 19:26	VMS2722	MSD9	DVO
TB1-S031B(98509MS)	98971	11/08/2012 19:52	VMS2722	MSD9	DVO

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Method Blank

Blank ID: MB-S for HBN 31341 [VXX/4299]
Matrix: Soil-Solid as dry weight
Blank Lab ID: 98643
QC for Samples:
31203610010, 31203610012, 31203610013, 31203610014, 31203610022, 31203610028, 31203610029, 31203610030

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF
Dichlorodifluoromethane	ND	U	1.05	5.00	ug/Kg	1
Chloromethane	ND	U	1.43	5.00	ug/Kg	1
Vinyl chloride	ND	U	0.950	5.00	ug/Kg	1
Bromomethane	ND	U	1.45	5.00	ug/Kg	1
Chloroethane	ND	U	1.00	5.00	ug/Kg	1
Trichlorofluoromethane	ND	U	1.01	5.00	ug/Kg	1
1,1-Dichloroethene	ND	U	1.16	5.00	ug/Kg	1
Acetone	ND	U	4.01	50.0	ug/Kg	1
Methylene chloride	ND	U	1.05	20.0	ug/Kg	1
trans-1,2-Dichloroethene	ND	U	0.730	5.00	ug/Kg	1
tert-Butyl methyl ether (MTBE)	ND	U	0.795	5.00	ug/Kg	1
1,1-Dichloroethane	ND	U	0.538	5.00	ug/Kg	1
Diisopropyl Ether	ND	U	0.821	5.00	ug/Kg	1
2,2-Dichloropropane	ND	U	0.738	5.00	ug/Kg	1
cis-1,2-Dichloroethene	ND	U	0.611	5.00	ug/Kg	1
2-Butanone	ND	U	3.38	25.0	ug/Kg	1
Bromochloromethane	ND	U	0.940	5.00	ug/Kg	1
Chloroform	ND	U	0.637	5.00	ug/Kg	1
1,1,1-Trichloroethane	ND	U	0.754	5.00	ug/Kg	1
Carbon tetrachloride	ND	U	0.569	5.00	ug/Kg	1
1,1-Dichloropropene	ND	U	0.676	5.00	ug/Kg	1
Benzene	ND	U	0.711	5.00	ug/Kg	1
1,2-Dichloroethane	ND	U	0.913	5.00	ug/Kg	1
Trichloroethene	ND	U	0.842	5.00	ug/Kg	1
1,2-Dichloropropane	ND	U	1.15	5.00	ug/Kg	1
Dibromomethane	ND	U	0.882	5.00	ug/Kg	1
Bromodichloromethane	ND	U	0.704	5.00	ug/Kg	1
cis-1,3-Dichloropropene	ND	U	1.03	5.00	ug/Kg	1
4-Methyl-2-pentanone	ND	U	3.74	12.5	ug/Kg	1
Toluene	ND	U	0.688	5.00	ug/Kg	1
Methyl iodide	ND	U	0.766	5.00	ug/Kg	1
trans-1,3-Dichloropropene	ND	U	0.944	5.00	ug/Kg	1
Carbon disulfide	ND	U	0.523	5.00	ug/Kg	1
1,1,2-Trichloroethane	ND	U	1.04	5.00	ug/Kg	1
Tetrachloroethene	ND	U	0.751	5.00	ug/Kg	1
1,3-Dichloropropane	ND	U	0.879	5.00	ug/Kg	1
2-Hexanone	ND	U	3.22	12.5	ug/Kg	1
Dibromochloromethane	ND	U	1.11	5.00	ug/Kg	1
1,2-Dibromoethane	ND	U	1.31	5.00	ug/Kg	1
Chlorobenzene	ND	U	0.698	5.00	ug/Kg	1
1,1,1,2-Tetrachloroethane	ND	U	0.709	5.00	ug/Kg	1

Print Date: 11/28/2012
N.C. Certification # 481

Method Blank

Blank ID: MB-S for HBN 31341 [VXX/4299]
Matrix: Soil-Solid as dry weight
Blank Lab ID: 98643
QC for Samples:
31203610010, 31203610012, 31203610013, 31203610014, 31203610022, 31203610028, 31203610029, 31203610030

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF
Bromoform	ND	U	0.724	5.00	ug/Kg	1
Bromobenzene	ND	U	0.697	5.00	ug/Kg	1
1,1,2,2-Tetrachloroethane	ND	U	1.17	5.00	ug/Kg	1
1,2,3-Trichloropropane	ND	U	1.03	5.00	ug/Kg	1
Ethyl Benzene	ND	U	0.705	5.00	ug/Kg	1
m,p-Xylene	ND	U	1.69	10.0	ug/Kg	1
Styrene	ND	U	0.576	5.00	ug/Kg	1
o-Xylene	ND	U	0.766	5.00	ug/Kg	1
Xylene (total)	ND	U	1.77	10.0	ug/Kg	1
Isopropylbenzene (Cumene)	ND	U	0.622	5.00	ug/Kg	1
n-Propylbenzene	ND	U	0.732	5.00	ug/Kg	1
2-Chlorotoluene	ND	U	0.937	5.00	ug/Kg	1
4-Chlorotoluene	ND	U	0.756	5.00	ug/Kg	1
1,3,5-Trimethylbenzene	ND	U	0.608	5.00	ug/Kg	1
tert-Butylbenzene	ND	U	0.673	5.00	ug/Kg	1
1,2,4-Trimethylbenzene	ND	U	0.637	5.00	ug/Kg	1
sec-Butylbenzene	ND	U	0.600	5.00	ug/Kg	1
1,3-Dichlorobenzene	ND	U	0.719	5.00	ug/Kg	1
4-Isopropyltoluene	ND	U	0.645	5.00	ug/Kg	1
1,4-Dichlorobenzene	ND	U	0.675	5.00	ug/Kg	1
1,2-Dichlorobenzene	ND	U	0.711	5.00	ug/Kg	1
n-Butylbenzene	ND	U	0.657	5.00	ug/Kg	1
1,2-Dibromo-3-chloropropane	ND	U	7.41	30.0	ug/Kg	1
1,2,4-Trichlorobenzene	ND	U	0.729	5.00	ug/Kg	1
Hexachlorobutadiene	ND	U	0.687	5.00	ug/Kg	1
Naphthalene	ND	U	0.909	5.00	ug/Kg	1
trans-1,4-Dichloro-2-butene	ND	U	4.20	25.0	ug/Kg	1
1,2,3-Trichlorobenzene	ND	U	0.832	5.00	ug/Kg	1
Surrogates						
1,2-Dichloroethane-d4	108			55.0-173	%	1
Toluene d8	102			57.0-134	%	1
4-Bromofluorobenzene	96.0			23.0-141	%	1

Batch Information

Analytical Batch: VMS2722
Analytical Method: SW-846 8260B
Instrument: MSD9
Analyst: DVO

Prep Batch: VXX4299
Prep Method: SW-846 5035 SL
Prep Date/Time: 11/8/2012 8:23:32AM
Prep Initial Wt./Vol.: 5 g
Prep Extract Vol: 5 mL

Print Date: 11/28/2012
N.C. Certification # 481

Blank Spike Summary

Blank Spike ID: LCS-S for HBN 31341 [VXX/4299]
Blank Spike Lab ID: 98641
Date Analyzed: 11/08/2012 09:55

Spike Duplicate ID: LCSD-S for HBN 31341 [VXX/4299
Spike Duplicate Lab ID: 98642
Date Analyzed: 11/08/2012 10:21
Matrix: Soil-Solid as dry weight

QC for Samples: 31203610010, 31203610012, 31203610013, 31203610014, 31203610022, 31203610028, 31203610029, 31203610030

Results by **SW-846 8260B**

	Blank Spike (ug/Kg)			Spike Duplicate (ug/Kg)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Dichlorodifluoromethane	30.0	31.9	106	30.0	30.8	103	52.0-133	3.5	30.00
Chloromethane	30.0	31.9	106	30.0	31.0	103	64.0-126	2.9	30.00
Vinyl chloride	30.0	29.0	97	30.0	27.6	92	69.0-120	4.9	30.00
Bromomethane	30.0	33.2	111	30.0	31.2	104	41.0-160	6.2	30.00
Chloroethane	30.0	30.1	100	30.0	29.7	99	69.0-126	1.3	30.00
Trichlorofluoromethane	30.0	28.6	95	30.0	28.1	94	72.0-123	1.8	30.00
1,1-Dichloroethene	30.0	25.5	85	30.0	25.6	85	78.0-113	0.39	30.00
Acetone	75.0	81.7	109	75.0	76.6	102	0.00-243	6.4	30.00
Methylene chloride	30.0	28.3	94	30.0	27.6	92	40.0-156	2.5	30.00
trans-1,2-Dichloroethene	30.0	28.2	94	30.0	27.9	93	78.0-111	1.1	30.00
tert-Butyl methyl ether (MTBE)	30.0	30.0	100	30.0	28.3	94	68.0-138	5.8	30.00
1,1-Dichloroethane	30.0	28.2	94	30.0	27.4	91	71.0-121	2.9	30.00
Diisopropyl Ether	30.0	29.5	98	30.0	28.3	94	60.0-141	4.2	30.00
2,2-Dichloropropane	30.0	30.4	101	30.0	29.0	97	79.0-127	4.7	30.00
cis-1,2-Dichloroethene	30.0	29.5	98	30.0	28.6	95	80.0-114	3.1	30.00
2-Butanone	75.0	85.1	114	75.0	78.5	105	31.0-189	8.1	30.00
Bromochloromethane	30.0	30.9	103	30.0	29.5	98	81.0-115	4.6	30.00
Chloroform	30.0	29.7	99	30.0	28.8	96	76.0-114	3.1	30.00
1,1,1-Trichloroethane	30.0	29.3	98	30.0	28.2	94	79.0-117	3.8	30.00
Carbon tetrachloride	30.0	28.4	95	30.0	27.6	92	82.0-119	2.9	30.00
1,1-Dichloropropene	30.0	29.3	98	30.0	27.8	93	82.0-114	5.3	30.00
Benzene	30.0	29.2	97	30.0	28.2	94	82.0-113	3.5	30.00
1,2-Dichloroethane	30.0	30.8	103	30.0	29.0	97	72.0-126	6.0	30.00
Trichloroethene	30.0	29.6	99	30.0	28.7	96	82.0-108	3.1	30.00
1,2-Dichloropropane	30.0	30.2	101	30.0	28.9	96	78.0-116	4.4	30.00
Dibromomethane	30.0	31.8	106	30.0	29.0	97	79.0-125	9.2	30.00
Bromodichloromethane	30.0	30.4	101	30.0	28.5	95	79.0-122	6.5	30.00
cis-1,3-Dichloropropene	30.0	29.0	97	30.0	28.1	94	75.0-127	3.2	30.00
4-Methyl-2-pentanone	75.0	87.7	117	75.0	82.8	110	57.0-159	5.7	30.00
Toluene	30.0	30.7	102	30.0	29.8	99	83.0-111	3.0	30.00
Methyl iodide	30.0	24.1	80	30.0	25.2	84	63.0-137	4.5	30.00
trans-1,3-Dichloropropene	30.0	30.3	101	30.0	28.7	96	75.0-134	5.4	30.00
Carbon disulfide	30.0	25.3	84	30.0	25.2	84	72.0-116	0.40	30.00
1,1,2-Trichloroethane	30.0	33.4	111	30.0	31.4	105	73.0-121	6.2	30.00

Print Date: 11/28/2012

N.C. Certification # 481

Blank Spike Summary

Blank Spike ID: LCS-S for HBN 31341 [VXX/4299]
Blank Spike Lab ID: 98641
Date Analyzed: 11/08/2012 09:55

Spike Duplicate ID: LCSD-S for HBN 31341 [VXX/4299
Spike Duplicate Lab ID: 98642
Date Analyzed: 11/08/2012 10:21
Matrix: Soil-Solid as dry weight

QC for Samples: 31203610010, 31203610012, 31203610013, 31203610014, 31203610022, 31203610028, 31203610029, 31203610030

Results by **SW-846 8260B**

	Blank Spike (ug/Kg)			Spike Duplicate (ug/Kg)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Tetrachloroethene	30.0	30.0	100	30.0	29.2	97	60.0-118	2.7	30.00
1,3-Dichloropropane	30.0	32.2	107	30.0	31.0	103	76.0-121	3.8	30.00
2-Hexanone	75.0	85.0	113	75.0	79.2	106	41.0-171	7.1	30.00
Dibromochloromethane	30.0	30.6	102	30.0	29.2	97	77.0-126	4.7	30.00
1,2-Dibromoethane	30.0	32.9	110	30.0	31.4	105	76.0-125	4.7	30.00
Chlorobenzene	30.0	30.7	102	30.0	29.7	99	78.0-109	3.3	30.00
1,1,1,2-Tetrachloroethane	30.0	32.0	107	30.0	30.6	102	81.0-117	4.5	30.00
Bromoform	30.0	32.1	107	30.0	30.1	100	72.0-134	6.4	30.00
Bromobenzene	30.0	31.3	104	30.0	29.9	100	76.0-113	4.6	30.00
1,1,2,2-Tetrachloroethane	30.0	34.4	115	30.0	32.2	107	76.0-129	6.6	30.00
1,2,3-Trichloropropane	30.0	34.6	115	30.0	32.0	107	70.0-145	7.8	30.00
Ethyl Benzene	30.0	29.6	99	30.0	29.4	98	72.0-115	0.68	30.00
m,p-Xylene	60.0	60.0	100	60.0	59.8	100	73.0-114	0.33	30.00
Styrene	30.0	30.3	101	30.0	29.8	99	74.0-114	1.7	30.00
o-Xylene	30.0	30.3	101	30.0	30.2	101	74.0-113	0.33	30.00
Isopropylbenzene (Cumene)	30.0	30.6	102	30.0	30.4	101	72.0-115	0.66	30.00
n-Propylbenzene	30.0	30.5	102	30.0	30.3	101	71.0-117	0.66	30.00
2-Chlorotoluene	30.0	30.6	102	30.0	30.1	100	76.0-111	1.6	30.00
4-Chlorotoluene	30.0	29.8	99	30.0	29.6	99	75.0-113	0.67	30.00
1,3,5-Trimethylbenzene	30.0	30.6	102	30.0	30.1	100	72.0-115	1.6	30.00
tert-Butylbenzene	30.0	30.2	101	30.0	29.8	99	74.0-112	1.3	30.00
1,2,4-Trimethylbenzene	30.0	30.8	103	30.0	30.2	101	73.0-114	2.0	30.00
sec-Butylbenzene	30.0	29.5	98	30.0	29.6	99	72.0-115	0.34	30.00
1,3-Dichlorobenzene	30.0	30.5	102	30.0	29.9	100	75.0-110	2.0	30.00
4-Isopropyltoluene	30.0	30.3	101	30.0	29.6	99	73.0-114	2.3	30.00
1,4-Dichlorobenzene	30.0	30.9	103	30.0	30.1	100	76.0-110	2.6	30.00
1,2-Dichlorobenzene	30.0	30.3	101	30.0	29.9	100	77.0-109	1.3	30.00
n-Butylbenzene	30.0	30.3	101	30.0	30.1	100	72.0-118	0.66	30.00
1,2-Dibromo-3-chloropropane	180	183	102	180	173	96	54.0-166	5.6	30.00
1,2,4-Trichlorobenzene	30.0	31.5	105	30.0	29.4	98	76.0-115	6.9	30.00
Hexachlorobutadiene	30.0	29.7	99	30.0	29.3	98	70.0-111	1.4	30.00
Naphthalene	30.0	33.6	112	30.0	32.5	108	71.0-129	3.3	30.00
trans-1,4-Dichloro-2-butene	150	168	112	150	158	106	62.0-164	6.1	30.00
1,2,3-Trichlorobenzene	30.0	30.5	102	30.0	30.1	100	78.0-115	1.3	30.00

Print Date: 11/28/2012

N.C. Certification # 481

Blank Spike Summary

Blank Spike ID: LCS-S for HBN 31341 [VXX/4299]
Blank Spike Lab ID: 98641
Date Analyzed: 11/08/2012 09:55

Spike Duplicate ID: LCSD-S for HBN 31341 [VXX/4299
Spike Duplicate Lab ID: 98642
Date Analyzed: 11/08/2012 10:21
Matrix: Soil-Solid as dry weight

QC for Samples: 31203610010, 31203610012, 31203610013, 31203610014, 31203610022, 31203610028, 31203610029, 31203610030

Results by **SW-846 8260B**

	Blank Spike (ug/Kg)			Spike Duplicate (ug/Kg)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Surrogates									
1,2-Dichloroethane-d4			106			103	55.0-173		
Toluene d8			100			100	57.0-134		
4-Bromofluorobenzene			102			99	23.0-141		

Batch Information

Analytical Batch: **VMS2722**
Analytical Method: **SW-846 8260B**
Instrument: **MSD9**
Analyst: **DVO**

Prep Batch: **VXX4299**
Prep Method: **SW-846 5035 SL**
Prep Date/Time: **11/08/2012 08:23**
Spike Init Wt./Vol.: **5 g** Extract Vol: **5 mL**
Dupe Init Wt./Vol.: **5 g** Extract Vol: **5 mL**

Print Date: 11/28/2012

N.C. Certification # 481

Batch Summary

Analytical Method: SW-846 8260B

Prep Method: SW-846 5035 SL
Prep Batch: VXX4300
Prep Date: 11/08/2012 08:27

Client Sample ID	Lab Sample ID	Analysis Date	Analytical Batch	Instrument	Analyst
LCS-S for HBN 31343 [VXX/4300]	98644	11/08/2012 10:01	VMS2723	MSD2	DVO
LCSD-S for HBN 31343 [VXX/4300	98645	11/08/2012 10:26	VMS2723	MSD2	DVO
MB-S for HBN 31343 [VXX/4300]	98646	11/08/2012 11:17	VMS2723	MSD2	DVO
SB40-0-1	31203610011	11/08/2012 15:24	VMS2723	MSD2	DVO
IDW-Box 1	31203610008	11/08/2012 16:15	VMS2723	MSD2	DVO
SB41-0-1	31203610019	11/08/2012 16:59	VMS2723	MSD2	DVO
1005-SB02-4ft(98320DUP)	98999	11/08/2012 18:17	VMS2723	MSD2	DVO
1005-SB02-9ft(98321MS)	99000	11/08/2012 18:43	VMS2723	MSD2	DVO

Print Date: 11/28/2012

N.C. Certification # 481

Method Blank

Blank ID: MB-S for HBN 31343 [VXX/4300]
Blank Lab ID: 98646
QC for Samples:
31203610008, 31203610011, 31203610019

Matrix: Soil-Solid as dry weight

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF
Dichlorodifluoromethane	ND	U	0.749	5.00	ug/Kg	1
Chloromethane	ND	U	0.646	5.00	ug/Kg	1
Vinyl chloride	ND	U	0.793	5.00	ug/Kg	1
Bromomethane	ND	U	1.71	5.00	ug/Kg	1
Chloroethane	ND	U	1.23	5.00	ug/Kg	1
Trichlorofluoromethane	ND	U	0.569	5.00	ug/Kg	1
1,1-Dichloroethene	ND	U	2.98	5.00	ug/Kg	1
Acetone	ND	U	3.74	50.0	ug/Kg	1
Methylene chloride	ND	U	0.904	20.0	ug/Kg	1
trans-1,2-Dichloroethene	ND	U	0.770	5.00	ug/Kg	1
tert-Butyl methyl ether (MTBE)	ND	U	0.689	5.00	ug/Kg	1
1,1-Dichloroethane	ND	U	0.588	5.00	ug/Kg	1
Diisopropyl Ether	ND	U	0.681	5.00	ug/Kg	1
2,2-Dichloropropane	ND	U	0.477	5.00	ug/Kg	1
cis-1,2-Dichloroethene	ND	U	0.669	5.00	ug/Kg	1
2-Butanone	ND	U	2.68	25.0	ug/Kg	1
Bromochloromethane	ND	U	1.47	5.00	ug/Kg	1
Chloroform	ND	U	0.515	5.00	ug/Kg	1
1,1,1-Trichloroethane	ND	U	0.422	5.00	ug/Kg	1
Carbon tetrachloride	ND	U	0.560	5.00	ug/Kg	1
1,1-Dichloropropene	ND	U	0.480	5.00	ug/Kg	1
Benzene	ND	U	0.388	5.00	ug/Kg	1
1,2-Dichloroethane	ND	U	0.819	5.00	ug/Kg	1
Trichloroethene	ND	U	0.643	5.00	ug/Kg	1
1,2-Dichloropropane	ND	U	0.460	5.00	ug/Kg	1
Dibromomethane	ND	U	0.580	5.00	ug/Kg	1
Bromodichloromethane	ND	U	0.680	5.00	ug/Kg	1
cis-1,3-Dichloropropene	ND	U	0.501	5.00	ug/Kg	1
4-Methyl-2-pentanone	ND	U	2.07	12.5	ug/Kg	1
Toluene	ND	U	0.694	5.00	ug/Kg	1
Methyl iodide	ND	U	0.537	5.00	ug/Kg	1
trans-1,3-Dichloropropene	ND	U	0.533	5.00	ug/Kg	1
Carbon disulfide	ND	U	0.820	5.00	ug/Kg	1
1,1,2-Trichloroethane	ND	U	0.606	5.00	ug/Kg	1
Tetrachloroethene	ND	U	0.580	5.00	ug/Kg	1
1,3-Dichloropropane	ND	U	0.678	5.00	ug/Kg	1
2-Hexanone	ND	U	2.81	12.5	ug/Kg	1
Dibromochloromethane	ND	U	0.811	5.00	ug/Kg	1
1,2-Dibromoethane	ND	U	0.560	5.00	ug/Kg	1
Chlorobenzene	ND	U	0.487	5.00	ug/Kg	1
1,1,1,2-Tetrachloroethane	ND	U	0.492	5.00	ug/Kg	1

Print Date: 11/28/2012

N.C. Certification # 481

Method Blank

Blank ID: MB-S for HBN 31343 [VXX/4300]
Blank Lab ID: 98646
QC for Samples:
31203610008, 31203610011, 31203610019

Matrix: Soil-Solid as dry weight

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF
Bromoform	ND	U	2.29	5.00	ug/Kg	1
Bromobenzene	ND	U	0.934	5.00	ug/Kg	1
1,1,2,2-Tetrachloroethane	ND	U	0.820	5.00	ug/Kg	1
1,2,3-Trichloropropane	ND	U	0.621	5.00	ug/Kg	1
Ethyl Benzene	ND	U	0.442	5.00	ug/Kg	1
m,p-Xylene	ND	U	0.780	10.0	ug/Kg	1
Styrene	ND	U	0.533	5.00	ug/Kg	1
o-Xylene	ND	U	0.713	5.00	ug/Kg	1
Xylene (total)	ND	U	1.77	10.0	ug/Kg	1
Isopropylbenzene (Cumene)	ND	U	0.374	5.00	ug/Kg	1
n-Propylbenzene	ND	U	0.485	5.00	ug/Kg	1
2-Chlorotoluene	ND	U	0.687	5.00	ug/Kg	1
4-Chlorotoluene	ND	U	0.479	5.00	ug/Kg	1
1,3,5-Trimethylbenzene	ND	U	0.817	5.00	ug/Kg	1
tert-Butylbenzene	ND	U	0.393	5.00	ug/Kg	1
1,2,4-Trimethylbenzene	ND	U	0.481	5.00	ug/Kg	1
sec-Butylbenzene	ND	U	0.486	5.00	ug/Kg	1
1,3-Dichlorobenzene	ND	U	0.380	5.00	ug/Kg	1
4-Isopropyltoluene	ND	U	0.563	5.00	ug/Kg	1
1,4-Dichlorobenzene	ND	U	0.491	5.00	ug/Kg	1
1,2-Dichlorobenzene	ND	U	0.664	5.00	ug/Kg	1
n-Butylbenzene	ND	U	0.423	5.00	ug/Kg	1
1,2-Dibromo-3-chloropropane	ND	U	6.38	30.0	ug/Kg	1
1,2,4-Trichlorobenzene	ND	U	0.408	5.00	ug/Kg	1
Hexachlorobutadiene	ND	U	0.592	5.00	ug/Kg	1
Naphthalene	ND	U	0.632	5.00	ug/Kg	1
trans-1,4-Dichloro-2-butene	ND	U	5.87	25.0	ug/Kg	1
1,2,3-Trichlorobenzene	ND	U	0.416	5.00	ug/Kg	1
Surrogates						
1,2-Dichloroethane-d4	101			55.0-173	%	1
Toluene d8	103			57.0-134	%	1
4-Bromofluorobenzene	96.0			23.0-141	%	1

Batch Information

Analytical Batch: VMS2723
Analytical Method: SW-846 8260B
Instrument: MSD2
Analyst: DVO

Prep Batch: VXX4300
Prep Method: SW-846 5035 SL
Prep Date/Time: 11/8/2012 8:27:40AM
Prep Initial Wt./Vol.: 5 g
Prep Extract Vol: 5 mL

Print Date: 11/28/2012

N.C. Certification # 481

Blank Spike Summary

Blank Spike ID: LCS-S for HBN 31343 [VXX/4300]
Blank Spike Lab ID: 98644
Date Analyzed: 11/08/2012 10:01

Spike Duplicate ID: LCSD-S for HBN 31343 [VXX/4300
Spike Duplicate Lab ID: 98645
Date Analyzed: 11/08/2012 10:26
Matrix: Soil-Solid as dry weight

QC for Samples: 31203610008, 31203610011, 31203610019

Results by **SW-846 8260B**

	Blank Spike (ug/Kg)			Spike Duplicate (ug/Kg)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Dichlorodifluoromethane	30.0	31.3	104	30.0	30.6	102	52.0-133	2.3	30.00
Chloromethane	30.0	30.0	100	30.0	29.9	100	64.0-126	0.33	30.00
Vinyl chloride	30.0	28.6	95	30.0	27.9	93	69.0-120	2.5	30.00
Bromomethane	30.0	31.9	106	30.0	29.8	99	41.0-160	6.8	30.00
Chloroethane	30.0	28.3	94	30.0	27.5	92	69.0-126	2.9	30.00
Trichlorofluoromethane	30.0	29.2	97	30.0	29.2	97	72.0-123	0.0	30.00
1,1-Dichloroethene	30.0	23.6	79	30.0	26.0	87	78.0-113	9.7	30.00
Acetone	75.0	64.7	86	75.0	68.0	91	0.00-243	5.0	30.00
Methylene chloride	30.0	28.0	93	30.0	26.6	89	40.0-156	5.1	30.00
trans-1,2-Dichloroethene	30.0	27.4	91	30.0	25.5	85	78.0-111	7.2	30.00
tert-Butyl methyl ether (MTBE)	30.0	27.5	92	30.0	27.6	92	68.0-138	0.36	30.00
1,1-Dichloroethane	30.0	27.4	91	30.0	26.5	88	71.0-121	3.3	30.00
Diisopropyl Ether	30.0	27.8	93	30.0	27.1	90	60.0-141	2.6	30.00
2,2-Dichloropropane	30.0	26.7	89	30.0	26.1	87	79.0-127	2.3	30.00
cis-1,2-Dichloroethene	30.0	28.7	96	30.0	28.0	93	80.0-114	2.5	30.00
2-Butanone	75.0	64.7	86	75.0	68.0	91	31.0-189	5.0	30.00
Bromochloromethane	30.0	30.0	100	30.0	28.0	93	81.0-115	6.9	30.00
Chloroform	30.0	28.8	96	30.0	27.4	91	76.0-114	5.0	30.00
1,1,1-Trichloroethane	30.0	28.4	95	30.0	27.1	90	79.0-117	4.7	30.00
Carbon tetrachloride	30.0	28.1	94	30.0	27.1	90	82.0-119	3.6	30.00
1,1-Dichloropropene	30.0	28.0	93	30.0	26.9	90	82.0-114	4.0	30.00
Benzene	30.0	28.2	94	30.0	27.4	91	82.0-113	2.9	30.00
1,2-Dichloroethane	30.0	27.7	92	30.0	27.3	91	72.0-126	1.5	30.00
Trichloroethene	30.0	28.4	95	30.0	27.8	93	82.0-108	2.1	30.00
1,2-Dichloropropane	30.0	28.7	96	30.0	27.9	93	78.0-116	2.8	30.00
Dibromomethane	30.0	27.8	93	30.0	26.6	89	79.0-125	4.4	30.00
Bromodichloromethane	30.0	28.6	95	30.0	28.0	93	79.0-122	2.1	30.00
cis-1,3-Dichloropropene	30.0	29.3	98	30.0	28.5	95	75.0-127	2.8	30.00
4-Methyl-2-pentanone	75.0	71.7	96	75.0	76.8	102	57.0-159	6.9	30.00
Toluene	30.0	29.9	100	30.0	28.9	96	83.0-111	3.4	30.00
Methyl iodide	30.0	25.5	85	30.0	21.9	73	63.0-137	15	30.00
trans-1,3-Dichloropropene	30.0	30.1	100	30.0	29.6	99	75.0-134	1.7	30.00
Carbon disulfide	30.0	25.9	86	30.0	24.7	82	72.0-116	4.7	30.00
1,1,2-Trichloroethane	30.0	29.2	97	30.0	30.2	101	73.0-121	3.4	30.00

Print Date: 11/28/2012

N.C. Certification # 481

Blank Spike Summary

Blank Spike ID: LCS-S for HBN 31343 [VXX/4300]
Blank Spike Lab ID: 98644
Date Analyzed: 11/08/2012 10:01

Spike Duplicate ID: LCSD-S for HBN 31343 [VXX/4300
Spike Duplicate Lab ID: 98645
Date Analyzed: 11/08/2012 10:26
Matrix: Soil-Solid as dry weight

QC for Samples: 31203610008, 31203610011, 31203610019

Results by **SW-846 8260B**

	Blank Spike (ug/Kg)			Spike Duplicate (ug/Kg)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Tetrachloroethene	30.0	29.3	98	30.0	28.9	96	60.0-118	1.4	30.00
1,3-Dichloropropane	30.0	29.7	99	30.0	30.1	100	76.0-121	1.3	30.00
2-Hexanone	75.0	68.1	91	75.0	71.2	95	41.0-171	4.5	30.00
Dibromochloromethane	30.0	28.8	96	30.0	29.3	98	77.0-126	1.7	30.00
1,2-Dibromoethane	30.0	29.5	98	30.0	30.6	102	76.0-125	3.7	30.00
Chlorobenzene	30.0	29.8	99	30.0	29.0	97	78.0-109	2.7	30.00
1,1,1,2-Tetrachloroethane	30.0	29.6	99	30.0	29.0	97	81.0-117	2.0	30.00
Bromoform	30.0	30.6	102	30.0	31.9	106	72.0-134	4.2	30.00
Bromobenzene	30.0	29.8	99	30.0	29.5	98	76.0-113	1.0	30.00
1,1,2,2-Tetrachloroethane	30.0	30.1	100	30.0	31.7	106	76.0-129	5.2	30.00
1,2,3-Trichloropropane	30.0	30.0	100	30.0	31.9	106	70.0-145	6.1	30.00
Ethyl Benzene	30.0	28.2	94	30.0	26.8	89	72.0-115	5.1	30.00
m,p-Xylene	60.0	57.4	96	60.0	55.0	92	73.0-114	4.3	30.00
Styrene	30.0	29.0	97	30.0	27.5	92	74.0-114	5.3	30.00
o-Xylene	30.0	29.4	98	30.0	28.0	93	74.0-113	4.9	30.00
Isopropylbenzene (Cumene)	30.0	29.1	97	30.0	27.9	93	72.0-115	4.2	30.00
n-Propylbenzene	30.0	29.1	97	30.0	27.7	92	71.0-117	4.9	30.00
2-Chlorotoluene	30.0	29.3	98	30.0	28.1	94	76.0-111	4.2	30.00
4-Chlorotoluene	30.0	28.9	96	30.0	27.8	93	75.0-113	3.9	30.00
1,3,5-Trimethylbenzene	30.0	29.1	97	30.0	27.8	93	72.0-115	4.6	30.00
tert-Butylbenzene	30.0	28.9	96	30.0	27.6	92	74.0-112	4.6	30.00
1,2,4-Trimethylbenzene	30.0	29.5	98	30.0	28.0	93	73.0-114	5.2	30.00
sec-Butylbenzene	30.0	28.6	95	30.0	27.4	91	72.0-115	4.3	30.00
1,3-Dichlorobenzene	30.0	29.0	97	30.0	27.6	92	75.0-110	4.9	30.00
4-Isopropyltoluene	30.0	28.5	95	30.0	27.1	90	73.0-114	5.0	30.00
1,4-Dichlorobenzene	30.0	29.4	98	30.0	28.1	94	76.0-110	4.5	30.00
1,2-Dichlorobenzene	30.0	29.3	98	30.0	28.3	94	77.0-109	3.5	30.00
n-Butylbenzene	30.0	29.1	97	30.0	27.8	93	72.0-118	4.6	30.00
1,2-Dibromo-3-chloropropane	180	163	91	180	176	98	54.0-166	7.7	30.00
1,2,4-Trichlorobenzene	30.0	30.1	100	30.0	29.1	97	76.0-115	3.4	30.00
Hexachlorobutadiene	30.0	29.6	99	30.0	28.4	95	70.0-111	4.1	30.00
Naphthalene	30.0	29.2	97	30.0	30.7	102	71.0-129	5.0	30.00
trans-1,4-Dichloro-2-butene	150	141	94	150	152	101	62.0-164	7.5	30.00
1,2,3-Trichlorobenzene	30.0	28.9	96	30.0	28.9	96	78.0-115	0.0	30.00

Print Date: 11/28/2012

N.C. Certification # 481

Blank Spike Summary

Blank Spike ID: LCS-S for HBN 31343 [VXX/4300]
Blank Spike Lab ID: 98644
Date Analyzed: 11/08/2012 10:01

Spike Duplicate ID: LCSD-S for HBN 31343 [VXX/4300
Spike Duplicate Lab ID: 98645
Date Analyzed: 11/08/2012 10:26
Matrix: Soil-Solid as dry weight

QC for Samples: 31203610008, 31203610011, 31203610019

Results by **SW-846 8260B**

	Blank Spike (ug/Kg)			Spike Duplicate (ug/Kg)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Surrogates									
1,2-Dichloroethane-d4			106			108	55.0-173		
Toluene d8			103			101	57.0-134		
4-Bromofluorobenzene			97			98	23.0-141		

Batch Information

Analytical Batch: **VMS2723**
Analytical Method: **SW-846 8260B**
Instrument: **MSD2**
Analyst: **DVO**

Prep Batch: **VXX4300**
Prep Method: **SW-846 5035 SL**
Prep Date/Time: **11/08/2012 08:27**
Spike Init Wt./Vol.: **5 g** Extract Vol: **5 mL**
Dupe Init Wt./Vol.: **5 g** Extract Vol: **5 mL**

Print Date: 11/28/2012

N.C. Certification # 481

Batch Summary

Analytical Method: SW-846 8260B

Prep Method: SW-846 5035 SM
Prep Batch: VXX4308
Prep Date: 11/07/2012 08:00

Client Sample ID	Lab Sample ID	Analysis Date	Analytical Batch	Instrument	Analyst
LCS-S for HBN 31386 [VXX/4308]	98787	11/07/2012 12:13	VMS2720	MSD8	DVO
LCSD-S for HBN 31386 [VXX/4308	98788	11/07/2012 12:37	VMS2720	MSD8	DVO
MB-S for HBN 31386 [VXX/4308]	98789	11/07/2012 13:51	VMS2720	MSD8	DVO
IDW-Box 2	31203610009	11/07/2012 14:56	VMS2720	MSD8	DVO
SB40-5-6	31203610016	11/07/2012 15:20	VMS2720	MSD8	DVO
SB41-1-2	31203610020	11/07/2012 15:45	VMS2720	MSD8	DVO
East Trench Bedding-SS	31203610003	11/07/2012 16:09	VMS2720	MSD8	DVO
East Trench Bedding-SW	31203610004	11/07/2012 16:34	VMS2720	MSD8	DVO
West Trench Bedding-SW	31203610005	11/07/2012 16:59	VMS2720	MSD8	DVO
SB40-6-7	31203610017	11/07/2012 17:23	VMS2720	MSD8	DVO
SB40-7-8	31203610018	11/07/2012 17:48	VMS2720	MSD8	DVO
West Trench Bedding-SS	31203610007	11/07/2012 18:12	VMS2720	MSD8	DVO
West Trench Beddin...(98119MS)	98790	11/07/2012 19:26	VMS2720	MSD8	DVO
West Trench Beddi...(98119MSD)	98791	11/07/2012 19:50	VMS2720	MSD8	DVO

Print Date: 11/28/2012

N.C. Certification # 481

Method Blank

Blank ID: MB-S for HBN 31386 [VXX/4308]
Matrix: Soil-Solid as dry weight
Blank Lab ID: 98789
QC for Samples:
31203610003, 31203610004, 31203610005, 31203610007, 31203610009, 31203610016, 31203610017, 31203610018, 31203610020

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF
Dichlorodifluoromethane	ND	U	8.55	250	ug/Kg	50
Chloromethane	ND	U	22.4	50.0	ug/Kg	50
Vinyl chloride	ND	U	6.20	50.0	ug/Kg	50
Bromomethane	ND	U	11.9	50.0	ug/Kg	50
Chloroethane	ND	U	15.6	50.0	ug/Kg	50
Trichlorofluoromethane	ND	U	6.85	50.0	ug/Kg	50
1,1-Dichloroethene	ND	U	10.6	50.0	ug/Kg	50
Acetone	ND	U	43.2	1250	ug/Kg	50
Methylene chloride	ND	U	7.60	250	ug/Kg	50
trans-1,2-Dichloroethene	ND	U	11.2	50.0	ug/Kg	50
tert-Butyl methyl ether (MTBE)	ND	U	7.20	50.0	ug/Kg	50
1,1-Dichloroethane	ND	U	8.25	50.0	ug/Kg	50
Diisopropyl Ether	ND	U	14.7	50.0	ug/Kg	50
2,2-Dichloropropane	ND	U	19.7	50.0	ug/Kg	50
cis-1,2-Dichloroethene	ND	U	6.80	50.0	ug/Kg	50
2-Butanone	ND	U	36.2	1250	ug/Kg	50
Bromochloromethane	ND	U	10.6	50.0	ug/Kg	50
Chloroform	ND	U	6.95	50.0	ug/Kg	50
1,1,1-Trichloroethane	ND	U	6.15	50.0	ug/Kg	50
Carbon tetrachloride	ND	U	5.05	50.0	ug/Kg	50
1,1-Dichloropropene	ND	U	4.32	50.0	ug/Kg	50
Benzene	ND	U	5.65	50.0	ug/Kg	50
1,2-Dichloroethane	ND	U	8.35	50.0	ug/Kg	50
Trichloroethene	ND	U	6.25	50.0	ug/Kg	50
1,2-Dichloropropane	ND	U	8.15	50.0	ug/Kg	50
Dibromomethane	ND	U	8.40	50.0	ug/Kg	50
Bromodichloromethane	ND	U	5.50	50.0	ug/Kg	50
cis-1,3-Dichloropropene	ND	U	3.84	50.0	ug/Kg	50
4-Methyl-2-pentanone	ND	U	27.9	250	ug/Kg	50
Toluene	ND	U	6.65	50.0	ug/Kg	50
Methyl iodide	ND	U	5.75	50.0	ug/Kg	50
trans-1,3-Dichloropropene	ND	U	4.31	50.0	ug/Kg	50
Carbon disulfide	ND	U	5.30	50.0	ug/Kg	50
1,1,2-Trichloroethane	ND	U	6.30	50.0	ug/Kg	50
Tetrachloroethene	ND	U	7.75	50.0	ug/Kg	50
1,3-Dichloropropane	ND	U	6.50	50.0	ug/Kg	50
2-Hexanone	ND	U	36.4	250	ug/Kg	50
Dibromochloromethane	ND	U	6.70	50.0	ug/Kg	50
1,2-Dibromoethane	ND	U	6.00	50.0	ug/Kg	50
Chlorobenzene	ND	U	5.80	50.0	ug/Kg	50
1,1,1,2-Tetrachloroethane	ND	U	5.20	50.0	ug/Kg	50

Print Date: 11/28/2012
N.C. Certification # 481

Method Blank

Blank ID: MB-S for HBN 31386 [VXX/4308]
Matrix: Soil-Solid as dry weight
Blank Lab ID: 98789
QC for Samples:
31203610003, 31203610004, 31203610005, 31203610007, 31203610009, 31203610016, 31203610017, 31203610018, 31203610020

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF
Bromoform	ND	U	4.87	50.0	ug/Kg	50
Bromobenzene	ND	U	5.50	50.0	ug/Kg	50
1,1,2,2-Tetrachloroethane	ND	U	7.80	50.0	ug/Kg	50
1,2,3-Trichloropropane	ND	U	10.6	50.0	ug/Kg	50
Ethyl Benzene	ND	U	4.39	50.0	ug/Kg	50
m,p-Xylene	ND	U	9.10	100	ug/Kg	50
Styrene	ND	U	5.10	50.0	ug/Kg	50
o-Xylene	ND	U	4.37	50.0	ug/Kg	50
Xylene (total)	ND	U	9.10	100	ug/Kg	50
Isopropylbenzene (Cumene)	ND	U	4.35	50.0	ug/Kg	50
n-Propylbenzene	ND	U	5.65	50.0	ug/Kg	50
2-Chlorotoluene	ND	U	5.65	50.0	ug/Kg	50
4-Chlorotoluene	ND	U	6.25	50.0	ug/Kg	50
1,3,5-Trimethylbenzene	ND	U	5.65	50.0	ug/Kg	50
tert-Butylbenzene	ND	U	4.28	50.0	ug/Kg	50
1,2,4-Trimethylbenzene	ND	U	4.81	50.0	ug/Kg	50
sec-Butylbenzene	ND	U	5.60	50.0	ug/Kg	50
1,3-Dichlorobenzene	ND	U	5.15	50.0	ug/Kg	50
4-Isopropyltoluene	ND	U	3.85	50.0	ug/Kg	50
1,4-Dichlorobenzene	ND	U	6.50	50.0	ug/Kg	50
1,2-Dichlorobenzene	ND	U	6.85	50.0	ug/Kg	50
n-Butylbenzene	ND	U	3.85	50.0	ug/Kg	50
1,2-Dibromo-3-chloropropane	ND	U	37.4	250	ug/Kg	50
1,2,4-Trichlorobenzene	ND	U	4.57	50.0	ug/Kg	50
Hexachlorobutadiene	ND	U	3.96	50.0	ug/Kg	50
Naphthalene	ND	U	4.28	50.0	ug/Kg	50
trans-1,4-Dichloro-2-butene	ND	U	20.7	250	ug/Kg	50
1,2,3-Trichlorobenzene	ND	U	5.50	50.0	ug/Kg	50
Surrogates						
1,2-Dichloroethane-d4	99.0			55.0-173	%	50
Toluene d8	103			57.0-134	%	50
4-Bromofluorobenzene	101			23.0-141	%	50

Batch Information

Analytical Batch: VMS2720
Analytical Method: SW-846 8260B
Instrument: MSD8
Analyst: DVO

Prep Batch: VXX4308
Prep Method: SW-846 5035 SM
Prep Date/Time: 11/7/2012 8:00:00AM
Prep Initial Wt./Vol.: 5 g
Prep Extract Vol: 5 mL

Print Date: 11/28/2012
N.C. Certification # 481

Blank Spike Summary

Blank Spike ID: LCS-S for HBN 31386 [VXX/4308]
Blank Spike Lab ID: 98787
Date Analyzed: 11/07/2012 12:13

Spike Duplicate ID: LCSD-S for HBN 31386 [VXX/4308
Spike Duplicate Lab ID: 98788
Date Analyzed: 11/07/2012 12:37
Matrix: Soil-Solid as dry weight

QC for Samples: 31203610003, 31203610004, 31203610005, 31203610007, 31203610009, 31203610016, 31203610017, 31203610018, 31203610020

Results by **SW-846 8260B**

	Blank Spike (ug/Kg)			Spike Duplicate (ug/Kg)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Dichlorodifluoromethane	250	279	112	250	314	125	70.0-130	12	30.00
Chloromethane	250	292	117	250	302	121	70.0-130	3.4	30.00
Vinyl chloride	250	252	101	250	283	113	70.0-130	12	30.00
Bromomethane	250	280	112	250	308	123	70.0-130	9.5	30.00
Chloroethane	250	272	109	250	290	116	70.0-130	6.4	30.00
Trichlorofluoromethane	250	253	101	250	264	106	70.0-130	4.3	30.00
1,1-Dichloroethene	250	245	98	250	270	108	70.0-130	9.7	30.00
Acetone	1250	1010	81	1250	1090	87	70.0-130	7.6	30.00
Methylene chloride	250	255	102	250	282	113	70.0-130	10	30.00
trans-1,2-Dichloroethene	250	239	95	250	264	105	70.0-130	9.9	30.00
tert-Butyl methyl ether (MTBE)	250	244	98	250	284	113	70.0-130	15	30.00
1,1-Dichloroethane	250	257	103	250	271	108	70.0-130	5.3	30.00
Diisopropyl Ether	250	265	106	250	282	113	70.0-130	6.2	30.00
2,2-Dichloropropane	250	270	108	250	294	118	70.0-130	8.5	30.00
cis-1,2-Dichloroethene	250	261	104	250	285	114	70.0-130	8.8	30.00
2-Butanone	1250	1010	81	1250	1200	96	70.0-130	17	30.00
Bromochloromethane	250	269	108	250	302	121	70.0-130	12	30.00
Chloroform	250	265	106	250	297	119	70.0-130	11	30.00
1,1,1-Trichloroethane	250	262	105	250	278	111	70.0-130	5.9	30.00
Carbon tetrachloride	250	273	109	250	309	123	70.0-130	12	30.00
1,1-Dichloropropene	250	258	103	250	275	110	70.0-130	6.4	30.00
Benzene	250	250	100	250	277	111	70.0-130	10	30.00
1,2-Dichloroethane	250	261	104	250	274	109	70.0-130	4.9	30.00
Trichloroethene	250	242	97	250	256	102	70.0-130	5.6	30.00
1,2-Dichloropropane	250	242	97	250	265	106	70.0-130	9.1	30.00
Dibromomethane	250	247	99	250	288	115	70.0-130	15	30.00
Bromodichloromethane	250	251	100	250	279	112	70.0-130	11	30.00
cis-1,3-Dichloropropene	250	250	100	250	268	107	70.0-130	6.9	30.00
4-Methyl-2-pentanone	1250	1220	98	1250	1380	110	70.0-130	12	30.00
Toluene	250	255	102	250	295	118	70.0-130	15	30.00
Methyl iodide	250	233	93	250	260	104	70.0-130	11	30.00
trans-1,3-Dichloropropene	250	243	97	250	293	117	70.0-130	19	30.00
Carbon disulfide	250	283	113	250	303	121	70.0-130	6.8	30.00
1,1,2-Trichloroethane	250	246	98	250	298	119	70.0-130	19	30.00

Print Date: 11/28/2012

N.C. Certification # 481

Blank Spike Summary

Blank Spike ID: LCS-S for HBN 31386 [VXX/4308]
Blank Spike Lab ID: 98787
Date Analyzed: 11/07/2012 12:13

Spike Duplicate ID: LCSD-S for HBN 31386 [VXX/4308
Spike Duplicate Lab ID: 98788
Date Analyzed: 11/07/2012 12:37
Matrix: Soil-Solid as dry weight

QC for Samples: 31203610003, 31203610004, 31203610005, 31203610007, 31203610009, 31203610016, 31203610017, 31203610018, 31203610020

Results by **SW-846 8260B**

	Blank Spike (ug/Kg)			Spike Duplicate (ug/Kg)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Tetrachloroethene	250	256	102	250	299	119	70.0-130	15	30.00
1,3-Dichloropropane	250	235	94	250	252	101	70.0-130	7.0	30.00
2-Hexanone	1250	995	80	1250	1120	90	70.0-130	12	30.00
Dibromochloromethane	250	229	91	250	256	102	70.0-130	11	30.00
1,2-Dibromoethane	250	252	101	250	278	111	70.0-130	9.8	30.00
Chlorobenzene	250	252	101	250	268	107	70.0-130	6.2	30.00
1,1,1,2-Tetrachloroethane	250	255	102	250	270	108	70.0-130	5.7	30.00
Bromoform	250	249	99	250	321	128	70.0-130	25	30.00
Bromobenzene	250	237	95	250	276	110	70.0-130	15	30.00
1,1,2,2-Tetrachloroethane	250	229	91	250	265	106	70.0-130	15	30.00
1,2,3-Trichloropropane	250	245	98	250	287	115	70.0-130	16	30.00
Ethyl Benzene	250	233	93	250	234	93	70.0-130	0.43	30.00
m,p-Xylene	500	500	100	500	544	109	70.0-130	8.4	30.00
Styrene	250	239	96	250	263	105	70.0-130	9.6	30.00
o-Xylene	250	250	100	250	263	105	70.0-130	5.1	30.00
Isopropylbenzene (Cumene)	250	249	100	250	251	100	70.0-130	0.80	30.00
n-Propylbenzene	250	256	102	250	271	108	70.0-130	5.7	30.00
2-Chlorotoluene	250	263	105	250	276	110	70.0-130	4.8	30.00
4-Chlorotoluene	250	252	101	250	250	100	70.0-130	0.80	30.00
1,3,5-Trimethylbenzene	250	266	106	250	282	113	70.0-130	5.8	30.00
tert-Butylbenzene	250	245	98	250	255	102	70.0-130	4.0	30.00
1,2,4-Trimethylbenzene	250	239	95	250	257	103	70.0-130	7.3	30.00
sec-Butylbenzene	250	239	96	250	248	99	70.0-130	3.7	30.00
1,3-Dichlorobenzene	250	248	99	250	267	107	70.0-130	7.4	30.00
4-Isopropyltoluene	250	227	91	250	237	95	70.0-130	4.3	30.00
1,4-Dichlorobenzene	250	238	95	250	249	100	70.0-130	4.5	30.00
1,2-Dichlorobenzene	250	255	102	250	271	108	70.0-130	6.1	30.00
n-Butylbenzene	250	255	102	250	266	106	70.0-130	4.2	30.00
1,2-Dibromo-3-chloropropane	1500	1310	87	1500	1410	94	70.0-130	7.4	30.00
1,2,4-Trichlorobenzene	250	248	99	250	240	96	70.0-130	3.3	30.00
Hexachlorobutadiene	250	258	103	250	251	100	70.0-130	2.8	30.00
Naphthalene	250	233	93	250	231	92	70.0-130	0.86	30.00
trans-1,4-Dichloro-2-butene	1250	1180	95	1250	1300	104	70.0-130	9.7	30.00
1,2,3-Trichlorobenzene	250	252	101	250	243	97	70.0-130	3.6	30.00

Print Date: 11/28/2012

N.C. Certification # 481

Blank Spike Summary

Blank Spike ID: LCS-S for HBN 31386 [VXX/4308]
Blank Spike Lab ID: 98787
Date Analyzed: 11/07/2012 12:13

Spike Duplicate ID: LCSD-S for HBN 31386 [VXX/4308
Spike Duplicate Lab ID: 98788
Date Analyzed: 11/07/2012 12:37
Matrix: Soil-Solid as dry weight

QC for Samples: 31203610003, 31203610004, 31203610005, 31203610007, 31203610009, 31203610016, 31203610017, 31203610018, 31203610020

Results by **SW-846 8260B**

	Blank Spike (ug/Kg)			Spike Duplicate (ug/Kg)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Surrogates									
1,2-Dichloroethane-d4			102			103	55.0-173		
Toluene d8			103			104	57.0-134		
4-Bromofluorobenzene			99			99	23.0-141		

Batch Information

Analytical Batch: **VMS2720**
Analytical Method: **SW-846 8260B**
Instrument: **MSD8**
Analyst: **DVO**

Prep Batch: **VXX4308**
Prep Method: **SW-846 5035 SM**
Prep Date/Time: **11/07/2012 08:00**
Spike Init Wt./Vol.: **5 g** Extract Vol: **5 mL**
Dupe Init Wt./Vol.: **5 g** Extract Vol: **5 mL**

Print Date: 11/28/2012

N.C. Certification # 481

Matrix Spike Summary

Original Sample ID: 31203610007 (West Trench Bedding-SS) Analysis Date: 11/07/2012 18:12
MS Sample ID: 98790 Analysis Date: 11/07/2012 19:26
MSD Sample ID: 98791 Analysis Date: 11/07/2012 19:50
Matrix: Soil-Solid as dry weight

QC for Samples: 31203610003, 31203610004, 31203610005, 31203610007, 31203610009, 31203610016, 31203610017, 31203610018, 31203610020

Results by **SW-846 8260B**

		Matrix Spike (ug/Kg)			Spike Duplicate (ug/Kg)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
1,1,1,2-Tetrachloroethane	ND	1137	1250	110	1137	1330	117	69.0-120	6.1	30.00
1,1,1-Trichloroethane	130	1137	1470	129 *	1137	1530	134 *	78.0-121	3.6	30.00
1,1,2,2-Tetrachloroethane	ND	1137	1190	105	1137	1240	109	76.0-136	3.6	30.00
1,1,2-Trichloroethane	ND	1137	1410	124	1137	1290	113	65.0-128	9.0	30.00
1,1-Dichloroethane	ND	1137	1350	119	1137	1320	116	72.0-139	2.4	30.00
1,1-Dichloroethene	ND	1137	1260	111	1137	1370	121	72.0-135	7.9	30.00
1,1-Dichloropropene	ND	1137	1340	118	1137	1440	127	69.0-137	6.8	30.00
1,2,3-Trichlorobenzene	ND	1137	1540	135 *	1137	1410	124	61.0-126	8.3	30.00
1,2,3-Trichloropropane	ND	1137	1270	112	1137	1110	98	10.0-218	14	30.00
1,2,4-Trichlorobenzene	ND	1137	1410	124	1137	1330	117	61.0-125	6.1	30.00
1,2,4-Trimethylbenzene	ND	1137	1250	110	1137	1240	109	31.0-172	0.87	30.00
1,2-Dibromo-3-chloropropane	ND	6816	7440	109	6816	6540	96	43.0-229	13	30.00
1,2-Dibromoethane	ND	1137	1280	113	1137	1230	108	78.0-148	4.0	30.00
1,2-Dichlorobenzene	ND	1137	1350	118	1137	1350	119	58.0-148	0.20	30.00
1,2-Dichloroethane	ND	1137	1280	113	1137	1320	116	73.0-146	2.8	30.00
1,2-Dichloropropane	ND	1137	1270	112	1137	1440	126	76.0-136	12	30.00
1,3,5-Trimethylbenzene	ND	1137	1430	125	1137	1390	122	68.0-132	2.9	30.00
1,3-Dichlorobenzene	ND	1137	1350	119	1137	1320	116	55.0-145	2.4	30.00
1,3-Dichloropropane	ND	1137	1320	116	1137	1230	108	33.0-137	6.9	30.00
1,4-Dichlorobenzene	ND	1137	1290	113	1137	1250	110	53.0-146	2.9	30.00
2,2-Dichloropropane	ND	1137	1340	118	1137	1380	121	58.0-150	3.3	30.00
2-Butanone	ND	5678	4900	86	5678	5220	92	41.0-256	6.4	30.00
2-Chlorotoluene	ND	1137	1420	125	1137	1310	116	60.0-144	7.9	30.00
2-Hexanone	ND	5678	5100	90	5678	4860	85	42.0-111	4.6	30.00
4-Chlorotoluene	ND	1137	1270	111	1137	1170	103	59.0-141	7.7	30.00
4-Isopropyltoluene	ND	1137	1200	105	1137	1220	107	75.0-122	1.9	30.00
4-Methyl-2-pentanone	ND	5678	6190	109	5678	6180	109	6.90-166	0.22	30.00
Acetone	ND	5678	4790	84	5678	5090	90	6.80-355	6.0	30.00
Benzene	ND	1137	1290	113	1137	1350	119	75.0-133	4.6	30.00
Bromobenzene	ND	1137	1280	113	1137	1360	120	66.0-140	6.6	30.00
Bromochloromethane	ND	1137	1410	124	1137	1380	122	85.0-136	1.9	30.00
Bromodichloromethane	ND	1137	1260	111	1137	1330	117	77.0-140	5.0	30.00
Bromoform	ND	1137	1250	110	1137	1170	103	75.0-151	6.8	30.00
Bromomethane	ND	1137	1280	112	1137	1420	125	30.0-127	11	30.00
n-Butylbenzene	ND	1137	1430	126	1137	1360	119	41.0-147	5.8	30.00
Carbon disulfide	ND	1137	1390	122	1137	1410	124	64.0-145	0.97	30.00
Carbon tetrachloride	ND	1137	1360	119	1137	1430	125	64.0-142	4.9	30.00
Chlorobenzene	ND	1137	1350	119	1137	1270	112	66.0-135	6.2	30.00

Print Date: 11/28/2012 N.C. Certification # 481

Matrix Spike Summary

Original Sample ID: 31203610007 (West Trench Bedding-SS) Analysis Date: 11/07/2012 18:12
MS Sample ID: 98790 Analysis Date: 11/07/2012 19:26
MSD Sample ID: 98791 Analysis Date: 11/07/2012 19:50
Matrix: Soil-Solid as dry weight

QC for Samples: 31203610003, 31203610004, 31203610005, 31203610007, 31203610009, 31203610016, 31203610017, 31203610018, 31203610020

Results by **SW-846 8260B**

		Matrix Spike (ug/Kg)			Spike Duplicate (ug/Kg)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Chloroethane	ND	1137	1260	111	1137	1420	125	21.0-182	12	30.00
Chloroform	ND	1137	1350	118	1137	1320	116	71.0-143	2.0	30.00
Chloromethane	ND	1137	1440	127	1137	1580	139 *	69.0-138	9.9	30.00
Dibromochloromethane	ND	1137	1110	98	1137	1150	101	78.0-141	3.2	30.00
Dibromomethane	ND	1137	1340	118	1137	1220	107	80.0-150	9.4	30.00
Dichlorodifluoromethane	ND	1137	1350	118	1137	1480	130	82.0-130	9.3	30.00
cis-1,3-Dichloropropene	ND	1137	1270	112	1137	1310	115	72.0-146	2.9	30.00
trans-1,3-Dichloropropene	ND	1137	1300	114	1137	1320	116	45.0-144	1.1	30.00
Diisopropyl Ether	ND	1137	1380	122	1137	1350	119	79.0-122	2.3	30.00
Ethyl Benzene	ND	1137	1290	113	1137	1210	107	74.0-126	6.2	30.00
Hexachlorobutadiene	ND	1137	1290	114	1137	1360	120	52.0-134	5.6	30.00
Isopropylbenzene (Cumene)	ND	1137	1350	119	1137	1290	114	74.0-123	4.1	30.00
Methyl iodide	ND	1137	1200	105	1137	1230	108	41.0-126	2.9	30.00
Methylene chloride	ND	1137	1330	117	1137	1270	112	49.0-155	4.6	30.00
Naphthalene	ND	1137	1530	134	1137	1160	102	55.0-140	28	30.00
Styrene	ND	1137	1270	112	1137	1250	110	73.0-123	2.0	30.00
Tetrachloroethene	9730	1137	11100	125	1137	11100	119	46.0-153	0.61	30.00
Toluene	ND	1137	1320	116	1137	1400	123	66.0-128	5.9	30.00
Trichloroethene	255	1137	1470	107	1137	1520	111	85.0-136	3.6	30.00
Trichlorofluoromethane	ND	1137	1260	111	1137	1450	128	77.0-132	14	30.00
Vinyl chloride	ND	1137	1220	107	1137	1320	116	68.0-137	7.7	30.00
cis-1,2-Dichloroethene	ND	1137	1470	129	1137	1480	130	77.0-134	0.92	30.00
m,p-Xylene	ND	2276	2740	120 *	2276	2590	114	80.0-118	5.6	30.00
n-Propylbenzene	ND	1137	1330	117	1137	1390	122	72.0-128	3.8	30.00
o-Xylene	ND	1137	1440	126 *	1137	1380	121	80.0-121	3.8	30.00
sec-Butylbenzene	ND	1137	1260	110	1137	1260	111	57.0-138	0.54	30.00
tert-Butyl methyl ether (MTBE)	ND	1137	1310	115	1137	1320	116	67.0-135	1.0	30.00
tert-Butylbenzene	ND	1137	1290	113	1137	1230	108	61.0-142	4.3	30.00
trans-1,2-Dichloroethene	ND	1137	1280	112	1137	1220	108	72.0-135	4.3	30.00
trans-1,4-Dichloro-2-butene	ND	5678	5670	100	5678	5420	95	49.0-211	4.4	30.00
Surrogates										
1,2-Dichloroethane-d4				100			102	55.0-173		
4-Bromofluorobenzene				102			102	23.0-141		
Toluene d8				103			106	57.0-134		

Print Date: 11/28/2012 N.C. Certification # 481

Matrix Spike Summary

Original Sample ID: 31203610007 (West Trench Bedding-SS) Analysis Date: 11/07/2012 18:12
MS Sample ID: 98790 Analysis Date: 11/07/2012 19:26
MSD Sample ID: 98791 Analysis Date: 11/07/2012 19:50
Matrix: Soil-Solid as dry weight

QC for Samples: 31203610003, 31203610004, 31203610005, 31203610007, 31203610009, 31203610016, 31203610017, 31203610018, 31203610020

Results by **SW-846 8260B**

		Matrix Spike (%)			Spike Duplicate (%)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL

Batch Information

Analytical Batch: **VMS2720**
Analytical Method: **SW-846 8260B**
Instrument: **MSD8**
Analyst: **DVO**

Prep Batch: **VXX4308**
Prep Method: **SW-846 5035 SM**
Prep Date/Time: **11/06/2012 11:26**
MS Init Wt./Vol.: **5.96 g** Extract Vol.: **5 mL**
MSD Init Wt./Vol.: **5.96 g** Extract Vol.: **5 mL**

Print Date: 11/28/2012 N.C. Certification # 481

Batch Summary

Analytical Method: SW-846 8260B

Prep Method: SW-846 5035 SL
Prep Batch: VXX4310
Prep Date: 11/09/2012 08:12

Client Sample ID	Lab Sample ID	Analysis Date	Analytical Batch	Instrument	Analyst
LCS-S for HBN 31394 [VXX/4310]	98836	11/09/2012 09:30	VMS2727	MSD2	DVO
LCSD-S for HBN 31394 [VXX/4310	98837	11/09/2012 09:56	VMS2727	MSD2	DVO
MB-S for HBN 31394 [VXX/4310]	98838	11/09/2012 10:46	VMS2727	MSD2	DVO
SB42-0-1	31203610027	11/09/2012 11:12	VMS2727	MSD2	DVO
SB45-4-5	31203610055	11/09/2012 11:37	VMS2727	MSD2	DVO
SB42-0-1(98139DUP)	99267	11/09/2012 14:51	VMS2727	MSD2	DVO
SB45-4-5(98167MS)	99268	11/09/2012 15:16	VMS2727	MSD2	DVO

Print Date: 11/28/2012

N.C. Certification # 481

Method Blank

Blank ID: MB-S for HBN 31394 [VXX/4310]
Blank Lab ID: 98838
QC for Samples:
31203610027, 31203610055

Matrix: Soil-Solid as dry weight

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF
Dichlorodifluoromethane	ND	U	0.749	5.00	ug/Kg	1
Chloromethane	ND	U	0.646	5.00	ug/Kg	1
Vinyl chloride	ND	U	0.793	5.00	ug/Kg	1
Bromomethane	ND	U	1.71	5.00	ug/Kg	1
Chloroethane	ND	U	1.23	5.00	ug/Kg	1
Trichlorofluoromethane	ND	U	0.569	5.00	ug/Kg	1
1,1-Dichloroethene	ND	U	2.98	5.00	ug/Kg	1
Acetone	ND	U	3.74	50.0	ug/Kg	1
Methylene chloride	ND	U	0.904	20.0	ug/Kg	1
trans-1,2-Dichloroethene	ND	U	0.770	5.00	ug/Kg	1
tert-Butyl methyl ether (MTBE)	ND	U	0.689	5.00	ug/Kg	1
1,1-Dichloroethane	ND	U	0.588	5.00	ug/Kg	1
Diisopropyl Ether	ND	U	0.681	5.00	ug/Kg	1
2,2-Dichloropropane	ND	U	0.477	5.00	ug/Kg	1
cis-1,2-Dichloroethene	ND	U	0.669	5.00	ug/Kg	1
2-Butanone	ND	U	2.68	25.0	ug/Kg	1
Bromochloromethane	ND	U	1.47	5.00	ug/Kg	1
Chloroform	ND	U	0.515	5.00	ug/Kg	1
1,1,1-Trichloroethane	ND	U	0.422	5.00	ug/Kg	1
Carbon tetrachloride	ND	U	0.560	5.00	ug/Kg	1
1,1-Dichloropropene	ND	U	0.480	5.00	ug/Kg	1
Benzene	ND	U	0.388	5.00	ug/Kg	1
1,2-Dichloroethane	ND	U	0.819	5.00	ug/Kg	1
Trichloroethene	ND	U	0.643	5.00	ug/Kg	1
1,2-Dichloropropane	ND	U	0.460	5.00	ug/Kg	1
Dibromomethane	ND	U	0.580	5.00	ug/Kg	1
Bromodichloromethane	ND	U	0.680	5.00	ug/Kg	1
cis-1,3-Dichloropropene	ND	U	0.501	5.00	ug/Kg	1
4-Methyl-2-pentanone	ND	U	2.07	12.5	ug/Kg	1
Toluene	ND	U	0.694	5.00	ug/Kg	1
Methyl iodide	ND	U	0.537	5.00	ug/Kg	1
trans-1,3-Dichloropropene	ND	U	0.533	5.00	ug/Kg	1
Carbon disulfide	ND	U	0.820	5.00	ug/Kg	1
1,1,2-Trichloroethane	ND	U	0.606	5.00	ug/Kg	1
Tetrachloroethene	ND	U	0.580	5.00	ug/Kg	1
1,3-Dichloropropane	ND	U	0.678	5.00	ug/Kg	1
2-Hexanone	ND	U	2.81	12.5	ug/Kg	1
Dibromochloromethane	ND	U	0.811	5.00	ug/Kg	1
1,2-Dibromoethane	ND	U	0.560	5.00	ug/Kg	1
Chlorobenzene	ND	U	0.487	5.00	ug/Kg	1
1,1,1,2-Tetrachloroethane	ND	U	0.492	5.00	ug/Kg	1

Print Date: 11/28/2012

N.C. Certification # 481

Method Blank

Blank ID: MB-S for HBN 31394 [VXX/4310]
Blank Lab ID: 98838
QC for Samples:
31203610027, 31203610055

Matrix: Soil-Solid as dry weight

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF
Bromoform	ND	U	2.29	5.00	ug/Kg	1
Bromobenzene	ND	U	0.934	5.00	ug/Kg	1
1,1,2,2-Tetrachloroethane	ND	U	0.820	5.00	ug/Kg	1
1,2,3-Trichloropropane	ND	U	0.621	5.00	ug/Kg	1
Ethyl Benzene	ND	U	0.442	5.00	ug/Kg	1
m,p-Xylene	ND	U	0.780	10.0	ug/Kg	1
Styrene	ND	U	0.533	5.00	ug/Kg	1
o-Xylene	ND	U	0.713	5.00	ug/Kg	1
Xylene (total)	ND	U	1.77	10.0	ug/Kg	1
Isopropylbenzene (Cumene)	ND	U	0.374	5.00	ug/Kg	1
n-Propylbenzene	ND	U	0.485	5.00	ug/Kg	1
2-Chlorotoluene	ND	U	0.687	5.00	ug/Kg	1
4-Chlorotoluene	ND	U	0.479	5.00	ug/Kg	1
1,3,5-Trimethylbenzene	ND	U	0.817	5.00	ug/Kg	1
tert-Butylbenzene	ND	U	0.393	5.00	ug/Kg	1
1,2,4-Trimethylbenzene	ND	U	0.481	5.00	ug/Kg	1
sec-Butylbenzene	ND	U	0.486	5.00	ug/Kg	1
1,3-Dichlorobenzene	ND	U	0.380	5.00	ug/Kg	1
4-Isopropyltoluene	ND	U	0.563	5.00	ug/Kg	1
1,4-Dichlorobenzene	ND	U	0.491	5.00	ug/Kg	1
1,2-Dichlorobenzene	ND	U	0.664	5.00	ug/Kg	1
n-Butylbenzene	ND	U	0.423	5.00	ug/Kg	1
1,2-Dibromo-3-chloropropane	ND	U	6.38	30.0	ug/Kg	1
1,2,4-Trichlorobenzene	ND	U	0.408	5.00	ug/Kg	1
Hexachlorobutadiene	ND	U	0.592	5.00	ug/Kg	1
Naphthalene	ND	U	0.632	5.00	ug/Kg	1
trans-1,4-Dichloro-2-butene	ND	U	5.87	25.0	ug/Kg	1
1,2,3-Trichlorobenzene	ND	U	0.416	5.00	ug/Kg	1
Surrogates						
1,2-Dichloroethane-d4	100			55.0-173	%	1
Toluene d8	102			57.0-134	%	1
4-Bromofluorobenzene	96.0			23.0-141	%	1

Batch Information

Analytical Batch: VMS2727
Analytical Method: SW-846 8260B
Instrument: MSD2
Analyst: DVO

Prep Batch: VXX4310
Prep Method: SW-846 5035 SL
Prep Date/Time: 11/9/2012 8:12:06AM
Prep Initial Wt./Vol.: 5 g
Prep Extract Vol: 5 mL

Print Date: 11/28/2012

N.C. Certification # 481

Blank Spike Summary

Blank Spike ID: LCS-S for HBN 31394 [VXX/4310]
Blank Spike Lab ID: 98836
Date Analyzed: 11/09/2012 09:30

Spike Duplicate ID: LCSD-S for HBN 31394 [VXX/4310
Spike Duplicate Lab ID: 98837
Date Analyzed: 11/09/2012 09:56
Matrix: Soil-Solid as dry weight

QC for Samples: 31203610027, 31203610055

Results by **SW-846 8260B**

	Blank Spike (ug/Kg)			Spike Duplicate (ug/Kg)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Dichlorodifluoromethane	30.0	32.1	107	30.0	29.8	99	52.0-133	7.4	30.00
Chloromethane	30.0	31.8	106	30.0	30.0	100	64.0-126	5.8	30.00
Vinyl chloride	30.0	29.3	98	30.0	27.9	93	69.0-120	4.9	30.00
Bromomethane	30.0	30.8	103	30.0	29.1	97	41.0-160	5.7	30.00
Chloroethane	30.0	27.4	91	30.0	25.5	85	69.0-126	7.2	30.00
Trichlorofluoromethane	30.0	29.7	99	30.0	28.3	94	72.0-123	4.8	30.00
1,1-Dichloroethene	30.0	23.7	79	30.0	24.3	81	78.0-113	2.5	30.00
Acetone	75.0	74.2	99	75.0	65.4	87	0.00-243	13	30.00
Methylene chloride	30.0	27.5	92	30.0	27.9	93	40.0-156	1.4	30.00
trans-1,2-Dichloroethene	30.0	26.4	88	30.0	26.7	89	78.0-111	1.1	30.00
tert-Butyl methyl ether (MTBE)	30.0	27.1	90	30.0	27.3	91	68.0-138	0.74	30.00
1,1-Dichloroethane	30.0	27.2	91	30.0	27.9	93	71.0-121	2.5	30.00
Diisopropyl Ether	30.0	27.7	92	30.0	28.7	96	60.0-141	3.5	30.00
2,2-Dichloropropane	30.0	27.0	90	30.0	28.5	95	79.0-127	5.4	30.00
cis-1,2-Dichloroethene	30.0	28.0	93	30.0	28.8	96	80.0-114	2.8	30.00
2-Butanone	75.0	72.1	96	75.0	65.5	87	31.0-189	9.6	30.00
Bromochloromethane	30.0	29.0	97	30.0	29.5	98	81.0-115	1.7	30.00
Chloroform	30.0	28.0	93	30.0	28.9	96	76.0-114	3.2	30.00
1,1,1-Trichloroethane	30.0	27.0	90	30.0	28.2	94	79.0-117	4.3	30.00
Carbon tetrachloride	30.0	26.6	89	30.0	27.8	93	82.0-119	4.4	30.00
1,1-Dichloropropene	30.0	27.1	90	30.0	28.7	96	82.0-114	5.7	30.00
Benzene	30.0	27.6	92	30.0	28.9	96	82.0-113	4.6	30.00
1,2-Dichloroethane	30.0	27.1	90	30.0	27.8	93	72.0-126	2.6	30.00
Trichloroethene	30.0	27.8	93	30.0	28.6	95	82.0-108	2.8	30.00
1,2-Dichloropropane	30.0	28.6	95	30.0	29.6	99	78.0-116	3.4	30.00
Dibromomethane	30.0	27.5	92	30.0	27.2	91	79.0-125	1.1	30.00
Bromodichloromethane	30.0	27.9	93	30.0	28.6	95	79.0-122	2.5	30.00
cis-1,3-Dichloropropene	30.0	28.7	96	30.0	29.3	98	75.0-127	2.1	30.00
4-Methyl-2-pentanone	75.0	79.9	107	75.0	74.6	99	57.0-159	6.9	30.00
Toluene	30.0	29.4	98	30.0	30.2	101	83.0-111	2.7	30.00
Methyl iodide	30.0	20.6	69	30.0	20.8	69	63.0-137	0.97	30.00
trans-1,3-Dichloropropene	30.0	29.4	98	30.0	30.3	101	75.0-134	3.0	30.00
Carbon disulfide	30.0	25.4	85	30.0	26.1	87	72.0-116	2.7	30.00
1,1,2-Trichloroethane	30.0	29.7	99	30.0	30.4	101	73.0-121	2.3	30.00

Print Date: 11/28/2012

N.C. Certification # 481

Blank Spike Summary

Blank Spike ID: LCS-S for HBN 31394 [VXX/4310]
Blank Spike Lab ID: 98836
Date Analyzed: 11/09/2012 09:30

Spike Duplicate ID: LCSD-S for HBN 31394 [VXX/4310
Spike Duplicate Lab ID: 98837
Date Analyzed: 11/09/2012 09:56
Matrix: Soil-Solid as dry weight

QC for Samples: 31203610027, 31203610055

Results by **SW-846 8260B**

	Blank Spike (ug/Kg)			Spike Duplicate (ug/Kg)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Tetrachloroethene	30.0	28.1	94	30.0	29.6	99	60.0-118	5.2	30.00
1,3-Dichloropropane	30.0	29.8	99	30.0	30.6	102	76.0-121	2.6	30.00
2-Hexanone	75.0	73.9	99	75.0	68.2	91	41.0-171	8.0	30.00
Dibromochloromethane	30.0	28.1	94	30.0	29.2	97	77.0-126	3.8	30.00
1,2-Dibromoethane	30.0	30.1	100	30.0	30.8	103	76.0-125	2.3	30.00
Chlorobenzene	30.0	28.6	95	30.0	29.5	98	78.0-109	3.1	30.00
1,1,1,2-Tetrachloroethane	30.0	28.7	96	30.0	30.0	100	81.0-117	4.4	30.00
Bromoform	30.0	30.8	103	30.0	31.0	103	72.0-134	0.65	30.00
Bromobenzene	30.0	29.0	97	30.0	30.0	100	76.0-113	3.4	30.00
1,1,2,2-Tetrachloroethane	30.0	31.4	105	30.0	31.3	104	76.0-129	0.32	30.00
1,2,3-Trichloropropane	30.0	31.4	105	30.0	32.0	107	70.0-145	1.9	30.00
Ethyl Benzene	30.0	26.8	89	30.0	28.2	94	72.0-115	5.1	30.00
m,p-Xylene	60.0	55.1	92	60.0	57.5	96	73.0-114	4.3	30.00
Styrene	30.0	27.5	92	30.0	28.8	96	74.0-114	4.6	30.00
o-Xylene	30.0	27.9	93	30.0	29.5	98	74.0-113	5.6	30.00
Isopropylbenzene (Cumene)	30.0	27.5	92	30.0	29.0	97	72.0-115	5.3	30.00
n-Propylbenzene	30.0	27.7	92	30.0	29.5	98	71.0-117	6.3	30.00
2-Chlorotoluene	30.0	28.0	93	30.0	29.3	98	76.0-111	4.5	30.00
4-Chlorotoluene	30.0	27.8	93	30.0	28.7	96	75.0-113	3.2	30.00
1,3,5-Trimethylbenzene	30.0	27.7	92	30.0	29.1	97	72.0-115	4.9	30.00
tert-Butylbenzene	30.0	27.5	92	30.0	29.0	97	74.0-112	5.3	30.00
1,2,4-Trimethylbenzene	30.0	27.7	92	30.0	29.1	97	73.0-114	4.9	30.00
sec-Butylbenzene	30.0	27.3	91	30.0	28.9	96	72.0-115	5.7	30.00
1,3-Dichlorobenzene	30.0	27.4	91	30.0	28.8	96	75.0-110	5.0	30.00
4-Isopropyltoluene	30.0	27.2	91	30.0	28.4	95	73.0-114	4.3	30.00
1,4-Dichlorobenzene	30.0	28.1	94	30.0	29.3	98	76.0-110	4.2	30.00
1,2-Dichlorobenzene	30.0	28.1	94	30.0	28.9	96	77.0-109	2.8	30.00
n-Butylbenzene	30.0	28.0	93	30.0	28.9	96	72.0-118	3.2	30.00
1,2-Dibromo-3-chloropropane	180	176	98	180	169	94	54.0-166	4.1	30.00
1,2,4-Trichlorobenzene	30.0	28.4	95	30.0	29.7	99	76.0-115	4.5	30.00
Hexachlorobutadiene	30.0	28.0	93	30.0	29.9	100	70.0-111	6.6	30.00
Naphthalene	30.0	29.7	99	30.0	30.2	101	71.0-129	1.7	30.00
trans-1,4-Dichloro-2-butene	150	146	97	150	145	97	62.0-164	0.69	30.00
1,2,3-Trichlorobenzene	30.0	28.8	96	30.0	29.4	98	78.0-115	2.1	30.00

Print Date: 11/28/2012

N.C. Certification # 481

Blank Spike Summary

Blank Spike ID: LCS-S for HBN 31394 [VXX/4310]
Blank Spike Lab ID: 98836
Date Analyzed: 11/09/2012 09:30

QC for Samples: 31203610027, 31203610055

Spike Duplicate ID: LCSD-S for HBN 31394 [VXX/4310
Spike Duplicate Lab ID: 98837
Date Analyzed: 11/09/2012 09:56
Matrix: Soil-Solid as dry weight

Results by **SW-846 8260B**

	Blank Spike (ug/Kg)			Spike Duplicate (ug/Kg)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Surrogates									
1,2-Dichloroethane-d4			107			92	55.0-173		
Toluene d8			103			102	57.0-134		
4-Bromofluorobenzene			97			96	23.0-141		

Batch Information

Analytical Batch: **VMS2727**
Analytical Method: **SW-846 8260B**
Instrument: **MSD2**
Analyst: **DVO**

Prep Batch: **VXX4310**
Prep Method: **SW-846 5035 SL**
Prep Date/Time: **11/09/2012 08:12**
Spike Init Wt./Vol.: **5 g** Extract Vol: **5 mL**
Dupe Init Wt./Vol.: **5 g** Extract Vol: **5 mL**

Print Date: 11/28/2012

N.C. Certification # 481

Matrix Spike Summary

Original Sample ID: 31203610055 (SB45-4-5)
MS Sample ID: 99268
MSD Sample ID:

QC for Samples: 31203610027, 31203610055

Analysis Date: 11/09/2012 11:37
Analysis Date: 11/09/2012 15:16
Analysis Date:
Matrix: Soil-Solid as dry weight

Results by **SW-846 8260B**

		Matrix Spike (ug/Kg)			Spike Duplicate (ug/Kg)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
1,1,1,2-Tetrachloroethane	ND	30.7	21.2	69				69.0-120		
1,1,1-Trichloroethane	6.48	30.7	20.8	46 *				78.0-121		
1,1,2,2-Tetrachloroethane	ND	30.7	35.7	116				76.0-136		
1,1,2-Trichloroethane	ND	30.7	27.4	89				65.0-128		
1,1-Dichloroethane	ND	30.7	19.9	65 *				72.0-139		
1,1-Dichloroethene	ND	30.7	16.9	55 *				72.0-135		
1,1-Dichloropropene	ND	30.7	19.5	63 *				69.0-137		
1,2,3-Trichlorobenzene	ND	30.7	20.8	68				61.0-126		
1,2,3-Trichloropropane	ND	30.7	37.6	122				10.0-218		
1,2,4-Trichlorobenzene	ND	30.7	20.0	65				61.0-125		
1,2,4-Trimethylbenzene	ND	30.7	18.9	61				31.0-172		
1,2-Dibromo-3-chloropropane	ND	185	250	135				43.0-229		
1,2-Dibromoethane	ND	30.7	29.2	95				78.0-148		
1,2-Dichlorobenzene	ND	30.7	21.0	68				58.0-148		
1,2-Dichloroethane	ND	30.7	23.7	77				73.0-146		
1,2-Dichloropropane	ND	30.7	21.2	69 *				76.0-136		
1,3,5-Trimethylbenzene	ND	30.7	18.6	60 *				68.0-132		
1,3-Dichlorobenzene	ND	30.7	19.3	63				55.0-145		
1,3-Dichloropropane	ND	30.7	26.7	87				33.0-137		
1,4-Dichlorobenzene	ND	30.7	19.9	65				53.0-146		
2,2-Dichloropropane	ND	30.7	20.3	66				58.0-150		
2-Butanone	ND	76.9	73.7	96				41.0-256		
2-Chlorotoluene	ND	30.7	19.2	63				60.0-144		
2-Hexanone	ND	76.9	88.7	115 *				42.0-111		
4-Chlorotoluene	ND	30.7	13.9	45 *				59.0-141		
4-Isopropyltoluene	ND	30.7	17.5	57 *				75.0-122		
4-Methyl-2-pentanone	ND	76.9	111	144				6.90-166		
Acetone	14.2	76.9	52.9	69				6.80-355		
Benzene	ND	30.7	20.4	66 *				75.0-133		
Bromobenzene	ND	30.7	21.5	70				66.0-140		
Bromochloromethane	ND	30.7	26.4	86				85.0-136		
Bromodichloromethane	ND	30.7	22.0	72 *				77.0-140		
Bromoform	ND	30.7	31.4	102				75.0-151		
Bromomethane	ND	30.7	21.2	69				30.0-127		
n-Butylbenzene	ND	30.7	17.9	58				41.0-147		
Carbon disulfide	ND	30.7	16.6	54 *				64.0-145		
Carbon tetrachloride	ND	30.7	18.9	62 *				64.0-142		
Chlorobenzene	ND	30.7	20.8	68				66.0-135		

Print Date: 11/28/2012

N.C. Certification # 481

Matrix Spike Summary

Original Sample ID: 31203610055 (SB45-4-5)
MS Sample ID: 99268
MSD Sample ID:

QC for Samples: 31203610027, 31203610055

Analysis Date: 11/09/2012 11:37
Analysis Date: 11/09/2012 15:16
Analysis Date:
Matrix: Soil-Solid as dry weight

Results by **SW-846 8260B**

		Matrix Spike (ug/Kg)			Spike Duplicate (ug/Kg)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Chloroethane	ND	30.7	19.1	62				21.0-182		
Chloroform	ND	30.7	21.0	68 *				71.0-143		
Chloromethane	ND	30.7	23.4	76				69.0-138		
Dibromochloromethane	ND	30.7	24.6	80				78.0-141		
Dibromomethane	ND	30.7	27.4	89				80.0-150		
Dichlorodifluoromethane	ND	30.7	24.4	79 *				82.0-130		
cis-1,3-Dichloropropene	ND	30.7	21.7	70 *				72.0-146		
trans-1,3-Dichloropropene	ND	30.7	24.8	81				45.0-144		
Diisopropyl Ether	ND	30.7	20.7	67 *				79.0-122		
Ethyl Benzene	ND	30.7	18.4	60 *				74.0-126		
Hexachlorobutadiene	ND	30.7	16.8	55				52.0-134		
Isopropylbenzene (Cumene)	ND	30.7	18.6	61 *				74.0-123		
Methyl iodide	ND	30.7	23.1	75				41.0-126		
Methylene chloride	ND	30.7	21.5	70				49.0-155		
Naphthalene	ND	30.7	30.3	99				55.0-140		
Styrene	ND	30.7	19.5	63 *				73.0-123		
Tetrachloroethene	121	30.7	48.8	-236 *				46.0-153		
Toluene	ND	30.7	20.4	66				66.0-128		
Trichloroethene	2.42	30.7	20.1	65				35.0-136		
Trichlorofluoromethane	ND	30.7	10.4	34 *				77.0-132		
Vinyl chloride	ND	30.7	22.6	73				68.0-137		
cis-1,2-Dichloroethene	0.795	30.7	21.4	70 *				77.0-134		
m,p-Xylene	ND	61.6	37.4	61 *				80.0-118		
n-Propylbenzene	ND	30.7	18.6	60 *				72.0-128		
o-Xylene	ND	30.7	19.3	63 *				80.0-121		
sec-Butylbenzene	ND	30.7	17.8	58				57.0-138		
tert-Butyl methyl ether (MTBE)	ND	30.7	24.4	79				67.0-135		
tert-Butylbenzene	ND	30.7	18.1	59 *				61.0-142		
trans-1,2-Dichloroethene	ND	30.7	19.8	64 *				72.0-135		
trans-1,4-Dichloro-2-butene	ND	154	177	115				49.0-211		
Surrogates										
1,2-Dichloroethane-d4				114				55.0-173		
4-Bromofluorobenzene				97				23.0-141		
Toluene d8				100				57.0-134		

Print Date: 11/28/2012

N.C. Certification # 481

Matrix Spike Summary

Original Sample ID: 31203610055 (SB45-4-5)
MS Sample ID: 99268
MSD Sample ID:

QC for Samples: 31203610027, 31203610055

Analysis Date: 11/09/2012 11:37
Analysis Date: 11/09/2012 15:16
Analysis Date:
Matrix: Soil-Solid as dry weight

Results by **SW-846 8260B**

		Matrix Spike (%)			Spike Duplicate (%)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL

Batch Information

Analytical Batch: **VMS2727**
Analytical Method: **SW-846 8260B**
Instrument: **MSD2**
Analyst: **DVO**

Prep Batch: **VXX4310**
Prep Method: **SW-846 5035 SL**
Prep Date/Time: **11/06/2012 16:33**
MS Init Wt./Vol.: **5.74 g** Extract Vol.: **5 mL**
MSD Init Wt./Vol.: Extract Vol.:

Print Date: 11/28/2012

N.C. Certification # 481

Duplicate Sample Summary

Original Sample ID: 31203610027-A
Duplicate Sample ID: 99267

QC for Samples: 31203610027, 31203610055

Analysis Date: 11/09/2012 11:12
Analysis Date: 11/09/2012 14:51
Matrix: Soil-Solid as dry weight

Results by **SW-846 8260B**

PARAMETER	Original (ug/Kg)	Qual	Duplicate (ug/Kg)	Qual	RPD (%)	RPD CL
1,1,1,2-Tetrachloroethane	ND	U	ND	U		30.00
1,1,1-Trichloroethane	ND	U	ND	U		30.00
1,1,2,2-Tetrachloroethane	ND	U	ND	U		30.00
1,1,2-Trichloroethane	ND	U	ND	U		30.00
1,1-Dichloroethane	ND	U	ND	U		30.00
1,1-Dichloroethene	ND	U	ND	U		30.00
1,1-Dichloropropene	ND	U	ND	U		30.00
1,2,3-Trichlorobenzene	ND	U	ND	U		30.00
1,2,3-Trichloropropane	ND	U	ND	U		30.00
1,2,4-Trichlorobenzene	ND	U	ND	U		30.00
1,2,4-Trimethylbenzene	ND	U	ND	U		30.00
1,2-Dibromo-3-chloropropane	ND	U	ND	U		30.00
1,2-Dibromoethane	ND	U	ND	U		30.00
1,2-Dichlorobenzene	ND	U	ND	U		30.00
1,2-Dichloroethane	ND	U	ND	U		30.00
1,2-Dichloropropane	ND	U	ND	U		30.00
1,3,5-Trimethylbenzene	ND	U	ND	U		30.00
1,3-Dichlorobenzene	ND	U	ND	U		30.00
1,3-Dichloropropane	ND	U	ND	U		30.00
1,4-Dichlorobenzene	ND	U	ND	U		30.00
2,2-Dichloropropane	ND	U	ND	U		30.00
2-Butanone	ND	U	3.48	J		30.00
2-Chlorotoluene	ND	U	ND	U		30.00
2-Hexanone	ND	U	ND	U		30.00
4-Chlorotoluene	ND	U	ND	U		30.00
4-Isopropyltoluene	ND	U	ND	U		30.00
4-Methyl-2-pentanone	ND	U	ND	U		30.00

Print Date: 11/28/2012

N.C. Certification # 481

Duplicate Sample Summary

Original Sample ID: 31203610027-A
Duplicate Sample ID: 99267

QC for Samples: 31203610027, 31203610055

Analysis Date: 11/09/2012 11:12
Analysis Date: 11/09/2012 14:51
Matrix: Soil-Solid as dry weight

Results by **SW-846 8260B**

PARAMETER	Original (ug/Kg)	Qual	Duplicate (ug/Kg)	Qual	RPD (%)	RPD CL
Acetone	11.3	J	13.8	J	20	30.00
Benzene	ND	U	ND	U		30.00
Bromobenzene	ND	U	ND	U		30.00
Bromochloromethane	ND	U	ND	U		30.00
Bromodichloromethane	ND	U	ND	U		30.00
Bromoform	ND	U	ND	U		30.00
Bromomethane	ND	U	ND	U		30.00
Carbon disulfide	ND	U	ND	U		30.00
Carbon tetrachloride	ND	U	ND	U		30.00
Chlorobenzene	ND	U	ND	U		30.00
Chloroethane	ND	U	ND	U		30.00
Chloroform	ND	U	ND	U		30.00
Chloromethane	ND	U	ND	U		30.00
cis-1,2-Dichloroethene	ND	U	ND	U		30.00
cis-1,3-Dichloropropene	ND	U	ND	U		30.00
Dibromochloromethane	ND	U	ND	U		30.00
Dibromomethane	ND	U	ND	U		30.00
Dichlorodifluoromethane	ND	U	ND	U		30.00
Diisopropyl Ether	ND	U	ND	U		30.00
Ethyl Benzene	ND	U	ND	U		30.00
Hexachlorobutadiene	ND	U	ND	U		30.00
Isopropylbenzene (Cumene)	ND	U	ND	U		30.00
m,p-Xylene	ND	U	ND	U		30.00
Methyl iodide	ND	U	ND	U		30.00
Methylene chloride	0.878	J	0.976	J	10	30.00
n-Butylbenzene	ND	U	ND	U		30.00
n-Propylbenzene	ND	U	ND	U		30.00

Print Date: 11/28/2012

N.C. Certification # 481

Duplicate Sample Summary

Original Sample ID: 31203610027-A
Duplicate Sample ID: 99267

QC for Samples: 31203610027, 31203610055

Analysis Date: 11/09/2012 11:12
Analysis Date: 11/09/2012 14:51
Matrix: Soil-Solid as dry weight

Results by **SW-846 8260B**

PARAMETER	Original (ug/Kg)	Qual	Duplicate (ug/Kg)	Qual	RPD (%)	RPD CL
Naphthalene	ND	U	ND	U		30.00
o-Xylene	ND	U	ND	U		30.00
sec-Butylbenzene	ND	U	ND	U		30.00
Styrene	ND	U	ND	U		30.00
tert-Butyl methyl ether (MTBE)	ND	U	ND	U		30.00
tert-Butylbenzene	ND	U	ND	U		30.00
Tetrachloroethene	8.62		3.63	J	**81***	30.00
Toluene	ND	U	ND	U		30.00
trans-1,2-Dichloroethene	ND	U	ND	U		30.00
trans-1,3-Dichloropropene	ND	U	ND	U		30.00
trans-1,4-Dichloro-2-butene	ND	U	ND	U		30.00
Trichloroethene	ND	U	ND	U		30.00
Trichlorofluoromethane	ND	U	ND	U		30.00
Vinyl chloride	ND	U	ND	U		30.00
Xylene (total)	ND	U	ND	U		

Surrogates

1,2-Dichloroethane-d4	111	110	4.0
4-Bromofluorobenzene	97.0	99.0	1.0
Toluene d8	102	100	4.8

Batch Information

Analytical Batch: VMS2727
Analytical Method: SW-846 8260B
Instrument: MSD2
Analyst: DVO

Prep Batch: VXX4310
Prep Method: SW-846 5035 SL
Prep Date/Time: 11/06/2012 12:05

Print Date: 11/28/2012

N.C. Certification # 481

Batch Summary

Analytical Method: SW-846 8260B

Prep Method: SW-846 5035 SM
Prep Batch: VXX4316
Prep Date: 11/08/2012 08:00

Client Sample ID	Lab Sample ID	Analysis Date	Analytical Batch	Instrument	Analyst
LCS-S for HBN 31417 [VXX/4316]	98960	11/08/2012 10:04	VMS2724	MSD8	DVO
LCSD-S for HBN 31417 [VXX/4316	98961	11/08/2012 10:29	VMS2724	MSD8	DVO
MB-S for HBN 31417 [VXX/4316]	98962	11/08/2012 11:43	VMS2724	MSD8	DVO
SB41-2-3	31203610021	11/08/2012 15:34	VMS2724	MSD8	DVO
SB41-4-5	31203610023	11/08/2012 15:59	VMS2724	MSD8	DVO
SB41-5-6	31203610024	11/08/2012 16:23	VMS2724	MSD8	DVO
SB43-0-1	31203610035	11/08/2012 16:48	VMS2724	MSD8	DVO
SB43-1-2	31203610036	11/08/2012 17:13	VMS2724	MSD8	DVO
SB41-6-7	31203610025	11/08/2012 17:37	VMS2724	MSD8	DVO
SB41-7-8	31203610026	11/08/2012 18:02	VMS2724	MSD8	DVO
SB42-7-8	31203610034	11/08/2012 18:51	VMS2724	MSD8	DVO
SB42-6-7	31203610033	11/08/2012 19:15	VMS2724	MSD8	DVO
SB42-5-6	31203610032	11/08/2012 19:40	VMS2724	MSD8	DVO
SB42-4-5(98143MS)	98963	11/08/2012 20:29	VMS2724	MSD8	DVO
SB42-4-5(98143MSD)	98964	11/08/2012 20:53	VMS2724	MSD8	DVO

Print Date: 11/28/2012

N.C. Certification # 481

Method Blank

Blank ID: MB-S for HBN 31417 [VXX/4316]
Matrix: Soil-Solid as dry weight
Blank Lab ID: 98962
QC for Samples:
31203610021, 31203610023, 31203610024, 31203610025, 31203610026, 31203610032, 31203610033, 31203610034, 31203610035, 31203610036

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF
Dichlorodifluoromethane	ND	U	8.55	250	ug/Kg	50
Chloromethane	ND	U	22.4	50.0	ug/Kg	50
Vinyl chloride	ND	U	6.20	50.0	ug/Kg	50
Bromomethane	ND	U	11.9	50.0	ug/Kg	50
Chloroethane	ND	U	15.6	50.0	ug/Kg	50
Trichlorofluoromethane	ND	U	6.85	50.0	ug/Kg	50
1,1-Dichloroethene	ND	U	10.6	50.0	ug/Kg	50
Acetone	ND	U	43.2	1250	ug/Kg	50
Methylene chloride	ND	U	7.60	250	ug/Kg	50
trans-1,2-Dichloroethene	ND	U	11.2	50.0	ug/Kg	50
tert-Butyl methyl ether (MTBE)	ND	U	7.20	50.0	ug/Kg	50
1,1-Dichloroethane	ND	U	8.25	50.0	ug/Kg	50
Diisopropyl Ether	ND	U	14.7	50.0	ug/Kg	50
2,2-Dichloropropane	ND	U	19.7	50.0	ug/Kg	50
cis-1,2-Dichloroethene	ND	U	6.80	50.0	ug/Kg	50
2-Butanone	ND	U	36.2	1250	ug/Kg	50
Bromochloromethane	ND	U	10.6	50.0	ug/Kg	50
Chloroform	ND	U	6.95	50.0	ug/Kg	50
1,1,1-Trichloroethane	ND	U	6.15	50.0	ug/Kg	50
Carbon tetrachloride	ND	U	5.05	50.0	ug/Kg	50
1,1-Dichloropropene	ND	U	4.32	50.0	ug/Kg	50
Benzene	ND	U	5.65	50.0	ug/Kg	50
1,2-Dichloroethane	ND	U	8.35	50.0	ug/Kg	50
Trichloroethene	ND	U	6.25	50.0	ug/Kg	50
1,2-Dichloropropane	ND	U	8.15	50.0	ug/Kg	50
Dibromomethane	ND	U	8.40	50.0	ug/Kg	50
Bromodichloromethane	ND	U	5.50	50.0	ug/Kg	50
cis-1,3-Dichloropropene	ND	U	3.84	50.0	ug/Kg	50
4-Methyl-2-pentanone	ND	U	27.9	250	ug/Kg	50
Toluene	ND	U	6.65	50.0	ug/Kg	50
Methyl iodide	ND	U	5.75	50.0	ug/Kg	50
trans-1,3-Dichloropropene	ND	U	4.31	50.0	ug/Kg	50
Carbon disulfide	ND	U	5.30	50.0	ug/Kg	50
1,1,2-Trichloroethane	ND	U	6.30	50.0	ug/Kg	50
Tetrachloroethene	ND	U	7.75	50.0	ug/Kg	50
1,3-Dichloropropane	ND	U	6.50	50.0	ug/Kg	50
2-Hexanone	ND	U	36.4	250	ug/Kg	50
Dibromochloromethane	ND	U	6.70	50.0	ug/Kg	50
1,2-Dibromoethane	ND	U	6.00	50.0	ug/Kg	50
Chlorobenzene	ND	U	5.80	50.0	ug/Kg	50
1,1,1,2-Tetrachloroethane	ND	U	5.20	50.0	ug/Kg	50

Print Date: 11/28/2012
N.C. Certification # 481

Method Blank

Blank ID: MB-S for HBN 31417 [VXX/4316]
Matrix: Soil-Solid as dry weight
Blank Lab ID: 98962
QC for Samples:
31203610021, 31203610023, 31203610024, 31203610025, 31203610026, 31203610032, 31203610033, 31203610034, 31203610035, 31203610036

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF
Bromoform	ND	U	4.87	50.0	ug/Kg	50
Bromobenzene	ND	U	5.50	50.0	ug/Kg	50
1,1,2,2-Tetrachloroethane	ND	U	7.80	50.0	ug/Kg	50
1,2,3-Trichloropropane	ND	U	10.6	50.0	ug/Kg	50
Ethyl Benzene	ND	U	4.39	50.0	ug/Kg	50
m,p-Xylene	ND	U	9.10	100	ug/Kg	50
Styrene	ND	U	5.10	50.0	ug/Kg	50
o-Xylene	ND	U	4.37	50.0	ug/Kg	50
Xylene (total)	ND	U	9.10	100	ug/Kg	50
Isopropylbenzene (Cumene)	ND	U	4.35	50.0	ug/Kg	50
n-Propylbenzene	ND	U	5.65	50.0	ug/Kg	50
2-Chlorotoluene	ND	U	5.65	50.0	ug/Kg	50
4-Chlorotoluene	ND	U	6.25	50.0	ug/Kg	50
1,3,5-Trimethylbenzene	ND	U	5.65	50.0	ug/Kg	50
tert-Butylbenzene	ND	U	4.28	50.0	ug/Kg	50
1,2,4-Trimethylbenzene	ND	U	4.81	50.0	ug/Kg	50
sec-Butylbenzene	ND	U	5.60	50.0	ug/Kg	50
1,3-Dichlorobenzene	ND	U	5.15	50.0	ug/Kg	50
4-Isopropyltoluene	ND	U	3.85	50.0	ug/Kg	50
1,4-Dichlorobenzene	ND	U	6.50	50.0	ug/Kg	50
1,2-Dichlorobenzene	ND	U	6.85	50.0	ug/Kg	50
n-Butylbenzene	ND	U	3.85	50.0	ug/Kg	50
1,2-Dibromo-3-chloropropane	ND	U	37.4	250	ug/Kg	50
1,2,4-Trichlorobenzene	ND	U	4.57	50.0	ug/Kg	50
Hexachlorobutadiene	ND	U	3.96	50.0	ug/Kg	50
Naphthalene	ND	U	4.28	50.0	ug/Kg	50
trans-1,4-Dichloro-2-butene	ND	U	20.7	250	ug/Kg	50
1,2,3-Trichlorobenzene	ND	U	5.50	50.0	ug/Kg	50
Surrogates						
1,2-Dichloroethane-d4	95.0			55.0-173	%	50
Toluene d8	98.0			57.0-134	%	50
4-Bromofluorobenzene	99.0			23.0-141	%	50

Batch Information

Analytical Batch: VMS2724
Analytical Method: SW-846 8260B
Instrument: MSD8
Analyst: DVO

Prep Batch: VXX4316
Prep Method: SW-846 5035 SM
Prep Date/Time: 11/8/2012 8:00:00AM
Prep Initial Wt./Vol.: 5 g
Prep Extract Vol: 5 mL

Print Date: 11/28/2012
N.C. Certification # 481

Blank Spike Summary

Blank Spike ID: LCS-S for HBN 31417 [VXX/4316]
Blank Spike Lab ID: 98960
Date Analyzed: 11/08/2012 10:04

Spike Duplicate ID: LCSD-S for HBN 31417 [VXX/4316
Spike Duplicate Lab ID: 98961
Date Analyzed: 11/08/2012 10:29
Matrix: Soil-Solid as dry weight

QC for Samples: 31203610021, 31203610023, 31203610024, 31203610025, 31203610026, 31203610032, 31203610033, 31203610034, 31203610035, 31203610036

Results by **SW-846 8260B**

	Blank Spike (ug/Kg)			Spike Duplicate (ug/Kg)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Dichlorodifluoromethane	250	280	112	250	278	111	70.0-130	0.72	30.00
Chloromethane	250	280	112	250	283	113	70.0-130	1.1	30.00
Vinyl chloride	250	259	104	250	254	101	70.0-130	1.9	30.00
Bromomethane	250	292	117	250	278	111	70.0-130	4.9	30.00
Chloroethane	250	281	112	250	280	112	70.0-130	0.36	30.00
Trichlorofluoromethane	250	272	109	250	268	107	70.0-130	1.5	30.00
1,1-Dichloroethene	250	251	100	250	244	98	70.0-130	2.8	30.00
Acetone	1250	932	75	1250	985	79	70.0-130	5.5	30.00
Methylene chloride	250	242	97	250	252	101	70.0-130	4.0	30.00
trans-1,2-Dichloroethene	250	235	94	250	267	107	70.0-130	13	30.00
tert-Butyl methyl ether (MTBE)	250	230	92	250	246	98	70.0-130	6.7	30.00
1,1-Dichloroethane	250	228	91	250	239	96	70.0-130	4.7	30.00
Diisopropyl Ether	250	235	94	250	255	102	70.0-130	8.2	30.00
2,2-Dichloropropane	250	272	109	250	280	112	70.0-130	2.9	30.00
cis-1,2-Dichloroethene	250	260	104	250	267	107	70.0-130	2.7	30.00
2-Butanone	1250	1010	81	1250	1040	83	70.0-130	2.9	30.00
Bromochloromethane	250	242	97	250	250	100	70.0-130	3.3	30.00
Chloroform	250	252	101	250	261	104	70.0-130	3.5	30.00
1,1,1-Trichloroethane	250	243	97	250	264	106	70.0-130	8.3	30.00
Carbon tetrachloride	250	257	103	250	281	112	70.0-130	8.9	30.00
1,1-Dichloropropene	250	253	101	250	257	103	70.0-130	1.6	30.00
Benzene	250	234	94	250	245	98	70.0-130	4.6	30.00
1,2-Dichloroethane	250	253	101	250	244	97	70.0-130	3.6	30.00
Trichloroethene	250	242	97	250	259	104	70.0-130	6.8	30.00
1,2-Dichloropropane	250	247	99	250	257	103	70.0-130	4.0	30.00
Dibromomethane	250	245	98	250	270	108	70.0-130	9.7	30.00
Bromodichloromethane	250	237	95	250	250	100	70.0-130	5.3	30.00
cis-1,3-Dichloropropene	250	228	91	250	243	97	70.0-130	6.4	30.00
4-Methyl-2-pentanone	1250	1080	87	1250	1090	87	70.0-130	0.92	30.00
Toluene	250	248	99	250	240	96	70.0-130	3.3	30.00
Methyl iodide	250	244	98	250	257	103	70.0-130	5.2	30.00
trans-1,3-Dichloropropene	250	241	96	250	249	100	70.0-130	3.3	30.00
Carbon disulfide	250	265	106	250	268	107	70.0-130	1.1	30.00
1,1,2-Trichloroethane	250	241	96	250	257	103	70.0-130	6.4	30.00

Print Date: 11/28/2012

N.C. Certification # 481

Blank Spike Summary

Blank Spike ID: LCS-S for HBN 31417 [VXX/4316]
Blank Spike Lab ID: 98960
Date Analyzed: 11/08/2012 10:04

Spike Duplicate ID: LCSD-S for HBN 31417 [VXX/4316
Spike Duplicate Lab ID: 98961
Date Analyzed: 11/08/2012 10:29
Matrix: Soil-Solid as dry weight

QC for Samples: 31203610021, 31203610023, 31203610024, 31203610025, 31203610026, 31203610032, 31203610033, 31203610034, 31203610035, 31203610036

Results by **SW-846 8260B**

	Blank Spike (ug/Kg)			Spike Duplicate (ug/Kg)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Tetrachloroethene	250	249	99	250	265	106	70.0-130	6.2	30.00
1,3-Dichloropropane	250	205	82	250	223	89	70.0-130	8.4	30.00
2-Hexanone	1250	893	71	1250	984	79	70.0-130	9.7	30.00
Dibromochloromethane	250	224	89	250	248	99	70.0-130	10	30.00
1,2-Dibromoethane	250	229	91	250	228	91	70.0-130	0.44	30.00
Chlorobenzene	250	239	95	250	249	99	70.0-130	4.1	30.00
1,1,1,2-Tetrachloroethane	250	226	90	250	254	101	70.0-130	12	30.00
Bromoform	250	268	107	250	243	97	70.0-130	9.8	30.00
Bromobenzene	250	249	100	250	253	101	70.0-130	1.6	30.00
1,1,2,2-Tetrachloroethane	250	208	83	250	222	89	70.0-130	6.5	30.00
1,2,3-Trichloropropane	250	186	74	250	279	112	70.0-130	**40***	30.00
Ethyl Benzene	250	241	96	250	228	91	70.0-130	5.5	30.00
m,p-Xylene	500	532	106	500	520	104	70.0-130	2.3	30.00
Styrene	250	259	104	250	242	97	70.0-130	6.8	30.00
o-Xylene	250	251	100	250	268	107	70.0-130	6.6	30.00
Isopropylbenzene (Cumene)	250	265	106	250	254	102	70.0-130	4.2	30.00
n-Propylbenzene	250	264	105	250	263	105	70.0-130	0.38	30.00
2-Chlorotoluene	250	268	107	250	242	97	70.0-130	10	30.00
4-Chlorotoluene	250	248	99	250	243	97	70.0-130	2.0	30.00
1,3,5-Trimethylbenzene	250	272	109	250	254	101	70.0-130	6.8	30.00
tert-Butylbenzene	250	257	103	250	246	98	70.0-130	4.4	30.00
1,2,4-Trimethylbenzene	250	238	95	250	242	97	70.0-130	1.7	30.00
sec-Butylbenzene	250	255	102	250	243	97	70.0-130	4.8	30.00
1,3-Dichlorobenzene	250	260	104	250	253	101	70.0-130	2.7	30.00
4-Isopropyltoluene	250	243	97	250	229	91	70.0-130	5.9	30.00
1,4-Dichlorobenzene	250	244	98	250	245	98	70.0-130	0.41	30.00
1,2-Dichlorobenzene	250	266	106	250	253	101	70.0-130	5.0	30.00
n-Butylbenzene	250	231	92	250	260	104	70.0-130	12	30.00
1,2-Dibromo-3-chloropropane	1500	1360	91	1500	1250	83	70.0-130	8.4	30.00
1,2,4-Trichlorobenzene	250	228	91	250	276	110	70.0-130	19	30.00
Hexachlorobutadiene	250	257	103	250	276	110	70.0-130	7.1	30.00
Naphthalene	250	216	86	250	279	112	70.0-130	25	30.00
trans-1,4-Dichloro-2-butene	1250	1190	96	1250	1180	95	70.0-130	0.84	30.00
1,2,3-Trichlorobenzene	250	250	100	250	280	112	70.0-130	11	30.00

Print Date: 11/28/2012

N.C. Certification # 481

Blank Spike Summary

Blank Spike ID: LCS-S for HBN 31417 [VXX/4316]
Blank Spike Lab ID: 98960
Date Analyzed: 11/08/2012 10:04

Spike Duplicate ID: LCSD-S for HBN 31417 [VXX/4316
Spike Duplicate Lab ID: 98961
Date Analyzed: 11/08/2012 10:29
Matrix: Soil-Solid as dry weight

QC for Samples: 31203610021, 31203610023, 31203610024, 31203610025, 31203610026, 31203610032, 31203610033, 31203610034, 31203610035, 31203610036

Results by **SW-846 8260B**

	Blank Spike (ug/Kg)			Spike Duplicate (ug/Kg)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Surrogates									
1,2-Dichloroethane-d4			101			96	55.0-173		
Toluene d8			104			104	57.0-134		
4-Bromofluorobenzene			99			102	23.0-141		

Batch Information

Analytical Batch: **VMS2724**
Analytical Method: **SW-846 8260B**
Instrument: **MSD8**
Analyst: **DVO**

Prep Batch: **VXX4316**
Prep Method: **SW-846 5035 SM**
Prep Date/Time: **11/08/2012 08:00**
Spike Init Wt./Vol.: **5 g** Extract Vol: **5 mL**
Dupe Init Wt./Vol.: **5 g** Extract Vol: **5 mL**

Print Date: 11/28/2012

N.C. Certification # 481

Batch Summary

Analytical Method: SW-846 8260B

Prep Method: SW-846 5035 SL
Prep Batch: VXX4321
Prep Date: 11/13/2012 08:27

Client Sample ID	Lab Sample ID	Analysis Date	Analytical Batch	Instrument	Analyst
LCS-S for HBN 31470 [VXX/4321]	99416	11/13/2012 09:34	VMS2732	MSD9	DVO
LCSD-S for HBN 31470 [VXX/4321	99417	11/13/2012 10:00	VMS2732	MSD9	DVO
MB-S for HBN 31470 [VXX/4321]	99418	11/13/2012 10:53	VMS2732	MSD9	DVO
SB40-4-5	31203610015	11/13/2012 11:20	VMS2732	MSD9	DVO
SB45-0-1	31203610051	11/13/2012 12:13	VMS2732	MSD9	DVO
SB45-0-1(98163DUP)	99809	11/13/2012 17:53	VMS2732	MSD9	DVO
SB-2(99311MS)	99811	11/13/2012 18:20	VMS2732	MSD9	DVO

Print Date: 11/28/2012

N.C. Certification # 481

Method Blank

Blank ID: MB-S for HBN 31470 [VXX/4321]
Blank Lab ID: 99418
QC for Samples:
31203610015, 31203610051

Matrix: Soil-Solid as dry weight

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF
Dichlorodifluoromethane	ND	U	1.05	5.00	ug/Kg	1
Chloromethane	ND	U	1.43	5.00	ug/Kg	1
Vinyl chloride	ND	U	0.950	5.00	ug/Kg	1
Bromomethane	ND	U	1.45	5.00	ug/Kg	1
Chloroethane	ND	U	1.00	5.00	ug/Kg	1
Trichlorofluoromethane	ND	U	1.01	5.00	ug/Kg	1
1,1-Dichloroethene	ND	U	1.16	5.00	ug/Kg	1
Acetone	ND	U	4.01	50.0	ug/Kg	1
Methylene chloride	**2.00**	J	1.05	20.0	ug/Kg	1
trans-1,2-Dichloroethene	ND	U	0.730	5.00	ug/Kg	1
tert-Butyl methyl ether (MTBE)	ND	U	0.795	5.00	ug/Kg	1
1,1-Dichloroethane	ND	U	0.538	5.00	ug/Kg	1
Diisopropyl Ether	ND	U	0.821	5.00	ug/Kg	1
2,2-Dichloropropane	ND	U	0.738	5.00	ug/Kg	1
cis-1,2-Dichloroethene	ND	U	0.611	5.00	ug/Kg	1
2-Butanone	ND	U	3.38	25.0	ug/Kg	1
Bromochloromethane	ND	U	0.940	5.00	ug/Kg	1
Chloroform	ND	U	0.637	5.00	ug/Kg	1
1,1,1-Trichloroethane	ND	U	0.754	5.00	ug/Kg	1
Carbon tetrachloride	ND	U	0.569	5.00	ug/Kg	1
1,1-Dichloropropene	ND	U	0.676	5.00	ug/Kg	1
Benzene	ND	U	0.711	5.00	ug/Kg	1
1,2-Dichloroethane	ND	U	0.913	5.00	ug/Kg	1
Trichloroethene	ND	U	0.842	5.00	ug/Kg	1
1,2-Dichloropropane	ND	U	1.15	5.00	ug/Kg	1
Dibromomethane	ND	U	0.882	5.00	ug/Kg	1
Bromodichloromethane	ND	U	0.704	5.00	ug/Kg	1
cis-1,3-Dichloropropene	ND	U	1.03	5.00	ug/Kg	1
4-Methyl-2-pentanone	ND	U	3.74	12.5	ug/Kg	1
Toluene	ND	U	0.688	5.00	ug/Kg	1
Methyl iodide	ND	U	0.766	5.00	ug/Kg	1
trans-1,3-Dichloropropene	ND	U	0.944	5.00	ug/Kg	1
Carbon disulfide	ND	U	0.523	5.00	ug/Kg	1
1,1,2-Trichloroethane	ND	U	1.04	5.00	ug/Kg	1
Tetrachloroethene	ND	U	0.751	5.00	ug/Kg	1
1,3-Dichloropropane	ND	U	0.879	5.00	ug/Kg	1
2-Hexanone	ND	U	3.22	12.5	ug/Kg	1
Dibromochloromethane	ND	U	1.11	5.00	ug/Kg	1
1,2-Dibromoethane	ND	U	1.31	5.00	ug/Kg	1
Chlorobenzene	ND	U	0.698	5.00	ug/Kg	1
1,1,1,2-Tetrachloroethane	ND	U	0.709	5.00	ug/Kg	1

Print Date: 11/28/2012

N.C. Certification # 481

Method Blank

Blank ID: MB-S for HBN 31470 [VXX/4321]
Blank Lab ID: 99418
QC for Samples:
31203610015, 31203610051

Matrix: Soil-Solid as dry weight

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF
Bromoform	ND	U	0.724	5.00	ug/Kg	1
Bromobenzene	ND	U	0.697	5.00	ug/Kg	1
1,1,2,2-Tetrachloroethane	ND	U	1.17	5.00	ug/Kg	1
1,2,3-Trichloropropane	ND	U	1.03	5.00	ug/Kg	1
Ethyl Benzene	ND	U	0.705	5.00	ug/Kg	1
m,p-Xylene	ND	U	1.69	10.0	ug/Kg	1
Styrene	ND	U	0.576	5.00	ug/Kg	1
o-Xylene	ND	U	0.766	5.00	ug/Kg	1
Xylene (total)	ND	U	1.77	10.0	ug/Kg	1
Isopropylbenzene (Cumene)	ND	U	0.622	5.00	ug/Kg	1
n-Propylbenzene	ND	U	0.732	5.00	ug/Kg	1
2-Chlorotoluene	ND	U	0.937	5.00	ug/Kg	1
4-Chlorotoluene	ND	U	0.756	5.00	ug/Kg	1
1,3,5-Trimethylbenzene	ND	U	0.608	5.00	ug/Kg	1
tert-Butylbenzene	ND	U	0.673	5.00	ug/Kg	1
1,2,4-Trimethylbenzene	ND	U	0.637	5.00	ug/Kg	1
sec-Butylbenzene	ND	U	0.600	5.00	ug/Kg	1
1,3-Dichlorobenzene	ND	U	0.719	5.00	ug/Kg	1
4-Isopropyltoluene	ND	U	0.645	5.00	ug/Kg	1
1,4-Dichlorobenzene	ND	U	0.675	5.00	ug/Kg	1
1,2-Dichlorobenzene	ND	U	0.711	5.00	ug/Kg	1
n-Butylbenzene	ND	U	0.657	5.00	ug/Kg	1
1,2-Dibromo-3-chloropropane	ND	U	7.41	30.0	ug/Kg	1
1,2,4-Trichlorobenzene	ND	U	0.729	5.00	ug/Kg	1
Hexachlorobutadiene	ND	U	0.687	5.00	ug/Kg	1
Naphthalene	ND	U	0.909	5.00	ug/Kg	1
trans-1,4-Dichloro-2-butene	ND	U	4.20	25.0	ug/Kg	1
1,2,3-Trichlorobenzene	ND	U	0.832	5.00	ug/Kg	1
Surrogates						
1,2-Dichloroethane-d4	105			55.0-173	%	1
Toluene d8	103			57.0-134	%	1
4-Bromofluorobenzene	100			23.0-141	%	1

Batch Information

Analytical Batch: VMS2732
Analytical Method: SW-846 8260B
Instrument: MSD9
Analyst: DVO

Prep Batch: VXX4321
Prep Method: SW-846 5035 SL
Prep Date/Time: 11/13/2012 8:27:40AM
Prep Initial Wt./Vol.: 5 g
Prep Extract Vol: 5 mL

Print Date: 11/28/2012

N.C. Certification # 481

Blank Spike Summary

Blank Spike ID: LCS-S for HBN 31470 [VXX/4321]
Blank Spike Lab ID: 99416
Date Analyzed: 11/13/2012 09:34

QC for Samples: 31203610015, 31203610051

Spike Duplicate ID: LCSD-S for HBN 31470 [VXX/4321
Spike Duplicate Lab ID: 99417
Date Analyzed: 11/13/2012 10:00
Matrix: Soil-Solid as dry weight

Results by **SW-846 8260B**

	Blank Spike (ug/Kg)			Spike Duplicate (ug/Kg)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Dichlorodifluoromethane	30.0	33.1	110	30.0	32.5	108	52.0-133	1.8	30.00
Chloromethane	30.0	27.7	92	30.0	33.1	110	64.0-126	18	30.00
Vinyl chloride	30.0	29.5	98	30.0	29.3	98	69.0-120	0.68	30.00
Bromomethane	30.0	29.3	98	30.0	36.0	120	41.0-160	21	30.00
Chloroethane	30.0	34.3	114	30.0	33.8	113	69.0-126	1.5	30.00
Trichlorofluoromethane	30.0	29.8	99	30.0	29.6	99	72.0-123	0.67	30.00
1,1-Dichloroethene	30.0	26.1	87	30.0	25.9	86	78.0-113	0.77	30.00
Acetone	75.0	69.0	92	75.0	66.4	88	0.00-243	3.8	30.00
Methylene chloride	30.0	30.4	101	30.0	29.6	99	40.0-156	2.7	30.00
trans-1,2-Dichloroethene	30.0	28.4	95	30.0	28.3	94	78.0-111	0.35	30.00
tert-Butyl methyl ether (MTBE)	30.0	30.8	103	30.0	29.0	97	68.0-138	6.0	30.00
1,1-Dichloroethane	30.0	29.6	99	30.0	28.9	96	71.0-121	2.4	30.00
Diisopropyl Ether	30.0	30.7	102	30.0	29.5	98	60.0-141	4.0	30.00
2,2-Dichloropropane	30.0	34.5	115	30.0	33.4	111	79.0-127	3.2	30.00
cis-1,2-Dichloroethene	30.0	30.3	101	30.0	29.5	98	80.0-114	2.7	30.00
2-Butanone	75.0	76.0	101	75.0	71.1	95	31.0-189	6.7	30.00
Bromochloromethane	30.0	30.5	102	30.0	29.9	100	81.0-115	2.0	30.00
Chloroform	30.0	30.5	102	30.0	29.4	98	76.0-114	3.7	30.00
1,1,1-Trichloroethane	30.0	31.5	105	30.0	29.9	100	79.0-117	5.2	30.00
Carbon tetrachloride	30.0	31.5	105	30.0	30.1	100	82.0-119	4.5	30.00
1,1-Dichloropropene	30.0	29.6	99	30.0	29.3	98	82.0-114	1.0	30.00
Benzene	30.0	29.3	98	30.0	28.6	95	82.0-113	2.4	30.00
1,2-Dichloroethane	30.0	30.8	103	30.0	29.4	98	72.0-126	4.7	30.00
Trichloroethene	30.0	30.5	102	30.0	28.9	96	82.0-108	5.4	30.00
1,2-Dichloropropane	30.0	31.5	105	30.0	30.3	101	78.0-116	3.9	30.00
Dibromomethane	30.0	31.2	104	30.0	29.5	98	79.0-125	5.6	30.00
Bromodichloromethane	30.0	32.3	108	30.0	30.6	102	79.0-122	5.4	30.00
cis-1,3-Dichloropropene	30.0	31.8	106	30.0	30.1	100	75.0-127	5.5	30.00
4-Methyl-2-pentanone	75.0	83.4	111	75.0	75.6	101	57.0-159	9.8	30.00
Toluene	30.0	30.7	102	30.0	30.0	100	83.0-111	2.3	30.00
Methyl iodide	30.0	29.6	99	30.0	30.4	101	63.0-137	2.7	30.00
trans-1,3-Dichloropropene	30.0	33.4	111	30.0	31.4	105	75.0-134	6.2	30.00
Carbon disulfide	30.0	25.8	86	30.0	25.5	85	72.0-116	1.2	30.00
1,1,2-Trichloroethane	30.0	32.7	109	30.0	30.6	102	73.0-121	6.6	30.00

Print Date: 11/28/2012

N.C. Certification # 481

Blank Spike Summary

Blank Spike ID: LCS-S for HBN 31470 [VXX/4321]
Blank Spike Lab ID: 99416
Date Analyzed: 11/13/2012 09:34

Spike Duplicate ID: LCSD-S for HBN 31470 [VXX/4321
Spike Duplicate Lab ID: 99417
Date Analyzed: 11/13/2012 10:00
Matrix: Soil-Solid as dry weight

QC for Samples: 31203610015, 31203610051

Results by **SW-846 8260B**

	Blank Spike (ug/Kg)			Spike Duplicate (ug/Kg)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Tetrachloroethene	30.0	30.1	100	30.0	29.0	97	60.0-118	3.7	30.00
1,3-Dichloropropane	30.0	32.3	108	30.0	30.5	102	76.0-121	5.7	30.00
2-Hexanone	75.0	82.5	110	75.0	73.9	98	41.0-171	11	30.00
Dibromochloromethane	30.0	32.7	109	30.0	30.1	100	77.0-126	8.3	30.00
1,2-Dibromoethane	30.0	33.3	111	30.0	30.9	103	76.0-125	7.5	30.00
Chlorobenzene	30.0	31.0	103	30.0	29.6	99	78.0-109	4.6	30.00
1,1,1,2-Tetrachloroethane	30.0	35.0	117	30.0	32.6	109	81.0-117	7.1	30.00
Bromoform	30.0	34.9	116	30.0	31.9	106	72.0-134	9.0	30.00
Bromobenzene	30.0	31.5	105	30.0	29.3	98	76.0-113	7.2	30.00
1,1,2,2-Tetrachloroethane	30.0	33.6	112	30.0	31.8	106	76.0-129	5.5	30.00
1,2,3-Trichloropropane	30.0	33.5	112	30.0	31.4	105	70.0-145	6.5	30.00
Ethyl Benzene	30.0	30.0	100	30.0	29.0	97	72.0-115	3.4	30.00
m,p-Xylene	60.0	61.5	102	60.0	59.6	99	73.0-114	3.1	30.00
Styrene	30.0	30.9	103	30.0	29.9	100	74.0-114	3.3	30.00
o-Xylene	30.0	30.8	103	30.0	29.8	99	74.0-113	3.3	30.00
Isopropylbenzene (Cumene)	30.0	31.1	104	30.0	30.0	100	72.0-115	3.6	30.00
n-Propylbenzene	30.0	31.1	104	30.0	30.4	101	71.0-117	2.3	30.00
2-Chlorotoluene	30.0	31.4	105	30.0	30.3	101	76.0-111	3.6	30.00
4-Chlorotoluene	30.0	30.6	102	30.0	29.4	98	75.0-113	4.0	30.00
1,3,5-Trimethylbenzene	30.0	30.9	103	30.0	29.9	100	72.0-115	3.3	30.00
tert-Butylbenzene	30.0	30.7	102	30.0	29.8	99	74.0-112	3.0	30.00
1,2,4-Trimethylbenzene	30.0	31.2	104	30.0	30.4	101	73.0-114	2.6	30.00
sec-Butylbenzene	30.0	30.6	102	30.0	29.8	99	72.0-115	2.6	30.00
1,3-Dichlorobenzene	30.0	30.8	103	30.0	29.7	99	75.0-110	3.6	30.00
4-Isopropyltoluene	30.0	30.9	103	30.0	29.9	100	73.0-114	3.3	30.00
1,4-Dichlorobenzene	30.0	31.1	104	30.0	29.9	100	76.0-110	3.9	30.00
1,2-Dichlorobenzene	30.0	30.5	102	30.0	29.9	100	77.0-109	2.0	30.00
n-Butylbenzene	30.0	31.5	105	30.0	30.4	101	72.0-118	3.6	30.00
1,2-Dibromo-3-chloropropane	180	185	103	180	169	94	54.0-166	9.0	30.00
1,2,4-Trichlorobenzene	30.0	32.6	109	30.0	30.8	103	76.0-115	5.7	30.00
Hexachlorobutadiene	30.0	31.1	104	30.0	29.6	99	70.0-111	4.9	30.00
Naphthalene	30.0	33.7	112	30.0	31.4	105	71.0-129	7.1	30.00
trans-1,4-Dichloro-2-butene	150	166	110	150	152	101	62.0-164	8.8	30.00
1,2,3-Trichlorobenzene	30.0	31.2	104	30.0	29.9	100	78.0-115	4.3	30.00

Print Date: 11/28/2012

N.C. Certification # 481

Blank Spike Summary

Blank Spike ID: LCS-S for HBN 31470 [VXX/4321]
Blank Spike Lab ID: 99416
Date Analyzed: 11/13/2012 09:34

QC for Samples: 31203610015, 31203610051

Spike Duplicate ID: LCSD-S for HBN 31470 [VXX/4321
Spike Duplicate Lab ID: 99417
Date Analyzed: 11/13/2012 10:00
Matrix: Soil-Solid as dry weight

Results by **SW-846 8260B**

	Blank Spike (ug/Kg)			Spike Duplicate (ug/Kg)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Surrogates									
1,2-Dichloroethane-d4			103			104	55.0-173		
Toluene d8			101			100	57.0-134		
4-Bromofluorobenzene			103			103	23.0-141		

Batch Information

Analytical Batch: **VMS2732**
Analytical Method: **SW-846 8260B**
Instrument: **MSD9**
Analyst: **DVO**

Prep Batch: **VXX4321**
Prep Method: **SW-846 5035 SL**
Prep Date/Time: **11/13/2012 08:27**
Spike Init Wt./Vol.: **5 g** Extract Vol: **5 mL**
Dupe Init Wt./Vol.: **5 g** Extract Vol: **5 mL**

Print Date: 11/28/2012

N.C. Certification # 481

Duplicate Sample Summary

Original Sample ID: 31203610051-A
Duplicate Sample ID: 99809

QC for Samples: 31203610015, 31203610051

Analysis Date: 11/13/2012 12:13
Analysis Date: 11/13/2012 17:53
Matrix: Soil-Solid as dry weight

Results by **SW-846 8260B**

PARAMETER	Original (ug/Kg)	Qual	Duplicate (ug/Kg)	Qual	RPD (%)	RPD CL
1,1,1,2-Tetrachloroethane	ND	U	ND	U		30.00
1,1,1-Trichloroethane	1.28	J	5.34		**123***	30.00
1,1,2,2-Tetrachloroethane	ND	U	ND	U		30.00
1,1,2-Trichloroethane	ND	U	ND	U		30.00
1,1-Dichloroethane	ND	U	ND	U		30.00
1,1-Dichloroethene	ND	U	1.15	J		30.00
1,1-Dichloropropene	ND	U	ND	U		30.00
1,2,3-Trichlorobenzene	ND	U	ND	U		30.00
1,2,3-Trichloropropane	ND	U	ND	U		30.00
1,2,4-Trichlorobenzene	ND	U	ND	U		30.00
1,2,4-Trimethylbenzene	ND	U	ND	U		30.00
1,2-Dibromo-3-chloropropane	ND	U	ND	U		30.00
1,2-Dibromoethane	ND	U	ND	U		30.00
1,2-Dichlorobenzene	ND	U	ND	U		30.00
1,2-Dichloroethane	ND	U	ND	U		30.00
1,2-Dichloropropane	ND	U	ND	U		30.00
1,3,5-Trimethylbenzene	ND	U	ND	U		30.00
1,3-Dichlorobenzene	ND	U	ND	U		30.00
1,3-Dichloropropane	ND	U	ND	U		30.00
1,4-Dichlorobenzene	ND	U	ND	U		30.00
2,2-Dichloropropane	ND	U	ND	U		30.00
2-Butanone	9.96	J	16.3	J	**48***	30.00
2-Chlorotoluene	ND	U	ND	U		30.00
2-Hexanone	ND	U	ND	U		30.00
4-Chlorotoluene	ND	U	ND	U		30.00
4-Isopropyltoluene	ND	U	ND	U		30.00
4-Methyl-2-pentanone	ND	U	ND	U		30.00

Print Date: 11/28/2012

N.C. Certification # 481

Duplicate Sample Summary

Original Sample ID: 31203610051-A
Duplicate Sample ID: 99809

QC for Samples: 31203610015, 31203610051

Analysis Date: 11/13/2012 12:13
Analysis Date: 11/13/2012 17:53
Matrix: Soil-Solid as dry weight

Results by **SW-846 8260B**

PARAMETER	Original (ug/Kg)	Qual	Duplicate (ug/Kg)	Qual	RPD (%)	RPD CL
Acetone	64.6		102		**45***	30.00
Benzene	ND	U	ND	U		30.00
Bromobenzene	ND	U	ND	U		30.00
Bromochloromethane	ND	U	ND	U		30.00
Bromodichloromethane	ND	U	ND	U		30.00
Bromoform	ND	U	ND	U		30.00
Bromomethane	ND	U	ND	U		30.00
Carbon disulfide	3.98		ND	U		30.00
Carbon tetrachloride	ND	U	ND	U		30.00
Chlorobenzene	ND	U	ND	U		30.00
Chloroethane	ND	U	ND	U		30.00
Chloroform	ND	U	ND	U		30.00
Chloromethane	ND	U	ND	U		30.00
cis-1,2-Dichloroethene	ND	U	ND	U		30.00
cis-1,3-Dichloropropene	ND	U	ND	U		30.00
Dibromochloromethane	ND	U	ND	U		30.00
Dibromomethane	ND	U	ND	U		30.00
Dichlorodifluoromethane	ND	U	ND	U		30.00
Diisopropyl Ether	ND	U	ND	U		30.00
Ethyl Benzene	ND	U	ND	U		30.00
Hexachlorobutadiene	ND	U	ND	U		30.00
Isopropylbenzene (Cumene)	ND	U	ND	U		30.00
m,p-Xylene	ND	U	ND	U		30.00
Methyl iodide	ND	U	ND	U		30.00
Methylene chloride	0.920	J	0.988	J	7.1	30.00
n-Butylbenzene	ND	U	ND	U		30.00
n-Propylbenzene	ND	U	ND	U		30.00

Print Date: 11/28/2012

N.C. Certification # 481

Duplicate Sample Summary

Original Sample ID: 31203610051-A
Duplicate Sample ID: 99809

QC for Samples: 31203610015, 31203610051

Analysis Date: 11/13/2012 12:13
Analysis Date: 11/13/2012 17:53
Matrix: Soil-Solid as dry weight

Results by **SW-846 8260B**

PARAMETER	Original (ug/Kg)	Qual	Duplicate (ug/Kg)	Qual	RPD (%)	RPD CL
Naphthalene	ND	U	ND	U		30.00
o-Xylene	ND	U	ND	U		30.00
sec-Butylbenzene	ND	U	ND	U		30.00
Styrene	ND	U	ND	U		30.00
tert-Butyl methyl ether (MTBE)	ND	U	ND	U		30.00
tert-Butylbenzene	ND	U	ND	U		30.00
Tetrachloroethene	19.9		12.5		**45***	30.00
Toluene	ND	U	ND	U		30.00
trans-1,2-Dichloroethene	ND	U	ND	U		30.00
trans-1,3-Dichloropropene	ND	U	ND	U		30.00
trans-1,4-Dichloro-2-butene	ND	U	ND	U		30.00
Trichloroethene	ND	U	ND	U		30.00
Trichlorofluoromethane	ND	U	ND	U		30.00
Vinyl chloride	ND	U	ND	U		30.00
Xylene (total)	ND	U	ND	U		
Surrogates						
1,2-Dichloroethane-d4	113		115		0.87	
4-Bromofluorobenzene	94.0		94.0		2.6	
Toluene d8	101		99.0		4.4	

Batch Information

Analytical Batch: VMS2732
Analytical Method: SW-846 8260B
Instrument: MSD9
Analyst: DVO

Prep Batch: VXX4321
Prep Method: SW-846 5035 SL
Prep Date/Time: 11/06/2012 16:26

Print Date: 11/28/2012

N.C. Certification # 481

Batch Summary

Analytical Method: SW-846 8260B

Prep Method: SW-846 5035 SM
Prep Batch: VXX4327
Prep Date: 11/09/2012 08:04

Client Sample ID	Lab Sample ID	Analysis Date	Analytical Batch	Instrument	Analyst
LCS-S for HBN 31504 [VXX/4327]	99551	11/09/2012 09:24	VMS2728	MSD8	DVO
LCSD-S for HBN 31504 [VXX/4327	99552	11/09/2012 09:49	VMS2728	MSD8	DVO
MB-S for HBN 31504 [VXX/4327]	99550	11/09/2012 11:02	VMS2728	MSD8	DVO
SB44-0-1	31203610043	11/09/2012 14:19	VMS2728	MSD8	DVO
SB43-2-3	31203610037	11/09/2012 14:44	VMS2728	MSD8	DVO
SB44-1-2	31203610044	11/09/2012 15:09	VMS2728	MSD8	DVO
SB43-3-4	31203610038	11/09/2012 15:34	VMS2728	MSD8	DVO
SB43-7-8	31203610042	11/09/2012 15:58	VMS2728	MSD8	DVO
SB43-4-5	31203610039	11/09/2012 16:23	VMS2728	MSD8	DVO
SB43-5-6	31203610040	11/09/2012 16:48	VMS2728	MSD8	DVO
SB44-7-8	31203610050	11/09/2012 17:13	VMS2728	MSD8	DVO
SB44-4-5	31203610047	11/09/2012 17:37	VMS2728	MSD8	DVO
SB43-6-7	31203610041	11/09/2012 18:02	VMS2728	MSD8	DVO
SB44-5-6	31203610048	11/09/2012 18:26	VMS2728	MSD8	DVO
SB42-4-5	31203610031	11/09/2012 18:51	VMS2728	MSD8	DVO
SB42-4-5(98143MS)	99553	11/09/2012 19:40	VMS2728	MSD8	DVO
SB42-4-5(98143MSD)	99554	11/09/2012 20:04	VMS2728	MSD8	DVO

Print Date: 11/28/2012

N.C. Certification # 481

Method Blank

Blank ID: MB-S for HBN 31504 [VXX/4327]
Matrix: Soil-Solid as dry weight
Blank Lab ID: 99550
QC for Samples:
31203610031, 31203610037, 31203610038, 31203610039, 31203610040, 31203610041, 31203610042, 31203610043, 31203610044, 31203610047, 31203610048, 31203610050

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF
Dichlorodifluoromethane	ND	U	8.55	250	ug/Kg	50
Chloromethane	ND	U	22.4	50.0	ug/Kg	50
Vinyl chloride	ND	U	6.20	50.0	ug/Kg	50
Bromomethane	ND	U	11.9	50.0	ug/Kg	50
Chloroethane	ND	U	15.6	50.0	ug/Kg	50
Trichlorofluoromethane	ND	U	6.85	50.0	ug/Kg	50
1,1-Dichloroethene	ND	U	10.6	50.0	ug/Kg	50
Acetone	ND	U	43.2	1250	ug/Kg	50
Methylene chloride	ND	U	7.60	250	ug/Kg	50
trans-1,2-Dichloroethene	ND	U	11.2	50.0	ug/Kg	50
tert-Butyl methyl ether (MTBE)	ND	U	7.20	50.0	ug/Kg	50
1,1-Dichloroethane	ND	U	8.25	50.0	ug/Kg	50
Diisopropyl Ether	ND	U	14.7	50.0	ug/Kg	50
2,2-Dichloropropane	ND	U	19.7	50.0	ug/Kg	50
cis-1,2-Dichloroethene	ND	U	6.80	50.0	ug/Kg	50
2-Butanone	ND	U	36.2	1250	ug/Kg	50
Bromochloromethane	ND	U	10.6	50.0	ug/Kg	50
Chloroform	ND	U	6.95	50.0	ug/Kg	50
1,1,1-Trichloroethane	ND	U	6.15	50.0	ug/Kg	50
Carbon tetrachloride	ND	U	5.05	50.0	ug/Kg	50
1,1-Dichloropropene	ND	U	4.32	50.0	ug/Kg	50
Benzene	ND	U	5.65	50.0	ug/Kg	50
1,2-Dichloroethane	ND	U	8.35	50.0	ug/Kg	50
Trichloroethene	ND	U	6.25	50.0	ug/Kg	50
1,2-Dichloropropane	ND	U	8.15	50.0	ug/Kg	50
Dibromomethane	ND	U	8.40	50.0	ug/Kg	50
Bromodichloromethane	ND	U	5.50	50.0	ug/Kg	50
cis-1,3-Dichloropropene	ND	U	3.84	50.0	ug/Kg	50
4-Methyl-2-pentanone	ND	U	27.9	250	ug/Kg	50
Toluene	ND	U	6.65	50.0	ug/Kg	50
Methyl iodide	ND	U	5.75	50.0	ug/Kg	50
trans-1,3-Dichloropropene	ND	U	4.31	50.0	ug/Kg	50
Carbon disulfide	ND	U	5.30	50.0	ug/Kg	50
1,1,2-Trichloroethane	ND	U	6.30	50.0	ug/Kg	50
Tetrachloroethene	ND	U	7.75	50.0	ug/Kg	50
1,3-Dichloropropane	ND	U	6.50	50.0	ug/Kg	50
2-Hexanone	ND	U	36.4	250	ug/Kg	50
Dibromochloromethane	ND	U	6.70	50.0	ug/Kg	50
1,2-Dibromoethane	ND	U	6.00	50.0	ug/Kg	50
Chlorobenzene	ND	U	5.80	50.0	ug/Kg	50
1,1,1,2-Tetrachloroethane	ND	U	5.20	50.0	ug/Kg	50

Print Date: 11/28/2012
N.C. Certification # 481

Method Blank

Blank ID: MB-S for HBN 31504 [VXX/4327]
Matrix: Soil-Solid as dry weight
Blank Lab ID: 99550
QC for Samples:
31203610031, 31203610037, 31203610038, 31203610039, 31203610040, 31203610041, 31203610042, 31203610043, 31203610044, 31203610047, 31203610048, 31203610050

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF
Bromoform	ND	U	4.87	50.0	ug/Kg	50
Bromobenzene	ND	U	5.50	50.0	ug/Kg	50
1,1,2,2-Tetrachloroethane	ND	U	7.80	50.0	ug/Kg	50
1,2,3-Trichloropropane	ND	U	10.6	50.0	ug/Kg	50
Ethyl Benzene	ND	U	4.39	50.0	ug/Kg	50
m,p-Xylene	ND	U	9.10	100	ug/Kg	50
Styrene	ND	U	5.10	50.0	ug/Kg	50
o-Xylene	ND	U	4.37	50.0	ug/Kg	50
Xylene (total)	ND	U	9.10	100	ug/Kg	50
Isopropylbenzene (Cumene)	ND	U	4.35	50.0	ug/Kg	50
n-Propylbenzene	ND	U	5.65	50.0	ug/Kg	50
2-Chlorotoluene	ND	U	5.65	50.0	ug/Kg	50
4-Chlorotoluene	ND	U	6.25	50.0	ug/Kg	50
1,3,5-Trimethylbenzene	ND	U	5.65	50.0	ug/Kg	50
tert-Butylbenzene	ND	U	4.28	50.0	ug/Kg	50
1,2,4-Trimethylbenzene	ND	U	4.81	50.0	ug/Kg	50
sec-Butylbenzene	ND	U	5.60	50.0	ug/Kg	50
1,3-Dichlorobenzene	ND	U	5.15	50.0	ug/Kg	50
4-Isopropyltoluene	ND	U	3.85	50.0	ug/Kg	50
1,4-Dichlorobenzene	ND	U	6.50	50.0	ug/Kg	50
1,2-Dichlorobenzene	ND	U	6.85	50.0	ug/Kg	50
n-Butylbenzene	ND	U	3.85	50.0	ug/Kg	50
1,2-Dibromo-3-chloropropane	ND	U	37.4	250	ug/Kg	50
1,2,4-Trichlorobenzene	ND	U	4.57	50.0	ug/Kg	50
Hexachlorobutadiene	ND	U	3.96	50.0	ug/Kg	50
Naphthalene	ND	U	4.28	50.0	ug/Kg	50
trans-1,4-Dichloro-2-butene	ND	U	20.7	250	ug/Kg	50
1,2,3-Trichlorobenzene	ND	U	5.50	50.0	ug/Kg	50
Surrogates						
1,2-Dichloroethane-d4	94.0			55.0-173	%	50
Toluene d8	100			57.0-134	%	50
4-Bromofluorobenzene	98.0			23.0-141	%	50

Batch Information

Analytical Batch: VMS2728
Analytical Method: SW-846 8260B
Instrument: MSD8
Analyst: DVO

Prep Batch: VXX4327
Prep Method: SW-846 5035 SM
Prep Date/Time: 11/9/2012 8:04:33AM
Prep Initial Wt./Vol.: 5 g
Prep Extract Vol: 5 mL

Print Date: 11/28/2012
N.C. Certification # 481

Blank Spike Summary

Blank Spike ID: LCS-S for HBN 31504 [VXX/4327]
Blank Spike Lab ID: 99551
Date Analyzed: 11/09/2012 09:24

Spike Duplicate ID: LCSD-S for HBN 31504 [VXX/4327
Spike Duplicate Lab ID: 99552
Date Analyzed: 11/09/2012 09:49
Matrix: Soil-Solid as dry weight

QC for Samples: 31203610031, 31203610037, 31203610038, 31203610039, 31203610040, 31203610041, 31203610042, 31203610043, 31203610044, 31203610047, 31203610048, 31203610050

Results by **SW-846 8260B**

	Blank Spike (ug/Kg)			Spike Duplicate (ug/Kg)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Dichlorodifluoromethane	250	295	118	250	272	109	70.0-130	8.1	30.00
Chloromethane	250	276	110	250	264	106	70.0-130	4.4	30.00
Vinyl chloride	250	249	99	250	241	96	70.0-130	3.3	30.00
Bromomethane	250	336	**134***	250	300	120	70.0-130	11	30.00
Chloroethane	250	262	105	250	260	104	70.0-130	0.77	30.00
Trichlorofluoromethane	250	270	108	250	255	102	70.0-130	5.7	30.00
1,1-Dichloroethene	250	249	100	250	233	93	70.0-130	6.6	30.00
Acetone	1250	910	73	1250	875	70	70.0-130	3.9	30.00
Methylene chloride	250	261	104	250	231	92	70.0-130	12	30.00
trans-1,2-Dichloroethene	250	261	104	250	227	91	70.0-130	14	30.00
tert-Butyl methyl ether (MTBE)	250	249	100	250	238	95	70.0-130	4.5	30.00
1,1-Dichloroethane	250	259	104	250	236	94	70.0-130	9.3	30.00
Diisopropyl Ether	250	253	101	250	252	101	70.0-130	0.40	30.00
2,2-Dichloropropane	250	274	110	250	256	102	70.0-130	6.8	30.00
cis-1,2-Dichloroethene	250	285	114	250	254	102	70.0-130	12	30.00
2-Butanone	1250	930	74	1250	1050	84	70.0-130	12	30.00
Bromochloromethane	250	284	114	250	257	103	70.0-130	10	30.00
Chloroform	250	272	109	250	250	100	70.0-130	8.4	30.00
1,1,1-Trichloroethane	250	276	110	250	248	99	70.0-130	11	30.00
Carbon tetrachloride	250	280	112	250	255	102	70.0-130	9.3	30.00
1,1-Dichloropropene	250	288	115	250	256	102	70.0-130	12	30.00
Benzene	250	254	102	250	250	100	70.0-130	1.6	30.00
1,2-Dichloroethane	250	248	99	250	249	99	70.0-130	0.40	30.00
Trichloroethene	250	262	105	250	239	96	70.0-130	9.2	30.00
1,2-Dichloropropane	250	276	110	250	233	93	70.0-130	17	30.00
Dibromomethane	250	236	94	250	275	110	70.0-130	15	30.00
Bromodichloromethane	250	266	106	250	262	105	70.0-130	1.5	30.00
cis-1,3-Dichloropropene	250	249	100	250	236	94	70.0-130	5.4	30.00
4-Methyl-2-pentanone	1250	1180	94	1250	1180	94	70.0-130	0.0	30.00
Toluene	250	266	106	250	253	101	70.0-130	5.0	30.00
Methyl iodide	250	256	102	250	241	96	70.0-130	6.0	30.00
trans-1,3-Dichloropropene	250	241	96	250	243	97	70.0-130	0.83	30.00
Carbon disulfide	250	275	110	250	269	107	70.0-130	2.2	30.00
1,1,2-Trichloroethane	250	248	99	250	242	97	70.0-130	2.4	30.00

Print Date: 11/28/2012

N.C. Certification # 481

Blank Spike Summary

Blank Spike ID: LCS-S for HBN 31504 [VXX/4327]
Blank Spike Lab ID: 99551
Date Analyzed: 11/09/2012 09:24

Spike Duplicate ID: LCSD-S for HBN 31504 [VXX/4327
Spike Duplicate Lab ID: 99552
Date Analyzed: 11/09/2012 09:49
Matrix: Soil-Solid as dry weight

QC for Samples: 31203610031, 31203610037, 31203610038, 31203610039, 31203610040, 31203610041, 31203610042, 31203610043, 31203610044, 31203610047, 31203610048, 31203610050

Results by **SW-846 8260B**

	Blank Spike (ug/Kg)			Spike Duplicate (ug/Kg)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Tetrachloroethene	250	263	105	250	255	102	70.0-130	3.1	30.00
1,3-Dichloropropane	250	226	90	250	226	90	70.0-130	0.0	30.00
2-Hexanone	1250	941	75	1250	954	76	70.0-130	1.4	30.00
Dibromochloromethane	250	236	94	250	234	93	70.0-130	0.85	30.00
1,2-Dibromoethane	250	235	94	250	219	88	70.0-130	7.0	30.00
Chlorobenzene	250	281	112	250	238	95	70.0-130	17	30.00
1,1,1,2-Tetrachloroethane	250	246	98	250	238	95	70.0-130	3.3	30.00
Bromoform	250	231	92	250	234	94	70.0-130	1.3	30.00
Bromobenzene	250	236	94	250	234	94	70.0-130	0.85	30.00
1,1,2,2-Tetrachloroethane	250	250	100	250	212	85	70.0-130	16	30.00
1,2,3-Trichloropropane	250	263	105	250	229	91	70.0-130	14	30.00
Ethyl Benzene	250	232	93	250	240	96	70.0-130	3.4	30.00
m,p-Xylene	500	513	103	500	467	93	70.0-130	9.4	30.00
Styrene	250	241	96	250	242	97	70.0-130	0.41	30.00
o-Xylene	250	270	108	250	228	91	70.0-130	17	30.00
Isopropylbenzene (Cumene)	250	255	102	250	232	93	70.0-130	9.4	30.00
n-Propylbenzene	250	260	104	250	239	95	70.0-130	8.4	30.00
2-Chlorotoluene	250	243	97	250	252	101	70.0-130	3.6	30.00
4-Chlorotoluene	250	246	98	250	212	85	70.0-130	15	30.00
1,3,5-Trimethylbenzene	250	252	101	250	253	101	70.0-130	0.40	30.00
tert-Butylbenzene	250	246	98	250	243	97	70.0-130	1.2	30.00
1,2,4-Trimethylbenzene	250	245	98	250	234	93	70.0-130	4.6	30.00
sec-Butylbenzene	250	256	102	250	234	93	70.0-130	9.0	30.00
1,3-Dichlorobenzene	250	252	101	250	241	96	70.0-130	4.5	30.00
4-Isopropyltoluene	250	232	93	250	219	88	70.0-130	5.8	30.00
1,4-Dichlorobenzene	250	239	96	250	248	99	70.0-130	3.7	30.00
1,2-Dichlorobenzene	250	239	96	250	246	98	70.0-130	2.9	30.00
n-Butylbenzene	250	271	108	250	241	96	70.0-130	12	30.00
1,2-Dibromo-3-chloropropane	1500	1300	87	1500	1250	83	70.0-130	3.9	30.00
1,2,4-Trichlorobenzene	250	229	91	250	275	110	70.0-130	18	30.00
Hexachlorobutadiene	250	279	111	250	247	99	70.0-130	12	30.00
Naphthalene	250	200	80	250	268	107	70.0-130	29	30.00
trans-1,4-Dichloro-2-butene	1250	1070	86	1250	1180	94	70.0-130	9.8	30.00
1,2,3-Trichlorobenzene	250	247	99	250	261	104	70.0-130	5.5	30.00

Print Date: 11/28/2012

N.C. Certification # 481

Blank Spike Summary

Blank Spike ID: LCS-S for HBN 31504 [VXX/4327]
Blank Spike Lab ID: 99551
Date Analyzed: 11/09/2012 09:24

Spike Duplicate ID: LCSD-S for HBN 31504 [VXX/4327
Spike Duplicate Lab ID: 99552
Date Analyzed: 11/09/2012 09:49
Matrix: Soil-Solid as dry weight

QC for Samples: 31203610031, 31203610037, 31203610038, 31203610039, 31203610040, 31203610041, 31203610042, 31203610043, 31203610044, 31203610047, 31203610048, 31203610050

Results by **SW-846 8260B**

	Blank Spike (ug/Kg)			Spike Duplicate (ug/Kg)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Surrogates									
1,2-Dichloroethane-d4			103			106	55.0-173		
Toluene d8			110			104	57.0-134		
4-Bromofluorobenzene			102			103	23.0-141		

Batch Information

Analytical Batch: **VMS2728**
Analytical Method: **SW-846 8260B**
Instrument: **MSD8**
Analyst: **DVO**

Prep Batch: **VXX4327**
Prep Method: **SW-846 5035 SM**
Prep Date/Time: **11/09/2012 08:04**
Spike Init Wt./Vol.: **5 g** Extract Vol: **5 mL**
Dupe Init Wt./Vol.: **5 g** Extract Vol: **5 mL**

Print Date: 11/28/2012

N.C. Certification # 481

Matrix Spike Summary

Original Sample ID: 31203610031 (SB42-4-5) — Analysis Date: 11/09/2012 18:51
MS Sample ID: 99553 — Analysis Date: 11/09/2012 19:40
MSD Sample ID: 99554 — Analysis Date: 11/09/2012 20:04
Matrix: Soil-Solid as dry weight

QC for Samples: 31203610031, 31203610037, 31203610038, 31203610039, 31203610040, 31203610041, 31203610042, 31203610043, 31203610044, 31203610047, 31203610048, 31203610050

Results by **SW-846 8260B**

		Matrix Spike (ug/Kg)			Spike Duplicate (ug/Kg)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
1,1,1,2-Tetrachloroethane	ND	465057	505000	109	465057	486000	104	69.0-120	4.1	30.00
1,1,1-Trichloroethane	ND	465057	523000	112	465057	538000	116	78.0-121	2.9	30.00
1,1,2,2-Tetrachloroethane	ND	465057	409000	88	465057	454000	98	76.0-136	10	30.00
1,1,2-Trichloroethane	ND	465057	461000	99	465057	526000	113	65.0-128	13	30.00
1,1-Dichloroethane	ND	465057	433000	93	465057	495000	106	72.0-139	13	30.00
1,1-Dichloroethene	ND	465057	450000	97	465057	482000	104	72.0-135	6.8	30.00
1,1-Dichloropropene	ND	465057	486000	104	465057	460000	99	69.0-137	5.4	30.00
1,2,3-Trichlorobenzene	ND	465057	493000	106	465057	500000	108	61.0-126	1.5	30.00
1,2,3-Trichloropropane	ND	465057	456000	98	465057	485000	104	10.0-218	5.9	30.00
1,2,4-Trichlorobenzene	ND	465057	490000	105	465057	553000	119	61.0-125	12	30.00
1,2,4-Trimethylbenzene	ND	465057	489000	105	465057	505000	109	31.0-172	3.3	30.00
1,2-Dibromo-3-chloropropane	ND	2795426	2620000	94	2795426	2770000	99	43.0-229	5.7	30.00
1,2-Dibromoethane	ND	465057	455000	98	465057	440000	95	78.0-148	3.4	30.00
1,2-Dichlorobenzene	ND	465057	506000	109	465057	537000	115	58.0-148	5.9	30.00
1,2-Dichloroethane	ND	465057	534000	115	465057	539000	116	73.0-146	0.95	30.00
1,2-Dichloropropane	ND	465057	465000	100	465057	486000	105	76.0-136	4.5	30.00
1,3,5-Trimethylbenzene	ND	465057	513000	110	465057	543000	117	68.0-132	6.0	30.00
1,3-Dichlorobenzene	ND	465057	499000	107	465057	517000	111	55.0-145	3.5	30.00
1,3-Dichloropropane	ND	465057	454000	98	465057	447000	96	33.0-137	1.4	30.00
1,4-Dichlorobenzene	ND	465057	472000	101	465057	520000	112	53.0-146	9.7	30.00
2,2-Dichloropropane	ND	465057	464000	100	465057	446000	96	58.0-150	3.9	30.00
2-Butanone	ND	2325286	1850000	79	2325286	1800000	78	41.0-256	2.1	30.00
2-Chlorotoluene	ND	465057	510000	110	465057	540000	116	60.0-144	5.8	30.00
2-Hexanone	ND	2325286	1760000	75	2325286	1990000	86	42.0-111	13	30.00
4-Chlorotoluene	ND	465057	460000	99	465057	478000	103	59.0-141	3.8	30.00
4-Isopropyltoluene	ND	465057	467000	100	465057	461000	99	75.0-122	1.1	30.00
4-Methyl-2-pentanone	ND	2325286	2100000	91	2325286	2210000	95	6.90-166	4.7	30.00
Acetone	ND	2325286	1640000	70	2325286	1590000	68	6.80-355	3.1	30.00
Benzene	ND	465057	459000	99	465057	470000	101	75.0-133	2.2	30.00
Bromobenzene	ND	465057	498000	107	465057	450000	97	66.0-140	10	30.00
Bromochloromethane	ND	465057	460000	99	465057	474000	102	85.0-136	3.0	30.00
Bromodichloromethane	ND	465057	472000	101	465057	487000	105	77.0-140	3.4	30.00
Bromoform	ND	465057	471000	101	465057	459000	99	75.0-151	2.2	30.00
Bromomethane	ND	465057	489000	105	465057	539000	116	30.0-127	9.6	30.00
n-Butylbenzene	ND	465057	527000	113	465057	529000	114	41.0-147	0.48	30.00
Carbon disulfide	ND	465057	473000	102	465057	513000	110	64.0-145	8.2	30.00
Carbon tetrachloride	ND	465057	471000	101	465057	530000	114	64.0-142	12	30.00
Chlorobenzene	ND	465057	491000	106	465057	485000	104	66.0-135	1.6	30.00

Print Date: 11/28/2012 — N.C. Certification # 481

Matrix Spike Summary

Original Sample ID: 31203610031 (SB42-4-5) — Analysis Date: 11/09/2012 18:51
MS Sample ID: 99553 — Analysis Date: 11/09/2012 19:40
MSD Sample ID: 99554 — Analysis Date: 11/09/2012 20:04
Matrix: Soil-Solid as dry weight

QC for Samples: 31203610031, 31203610037, 31203610038, 31203610039, 31203610040, 31203610041, 31203610042, 31203610043, 31203610044, 31203610047, 31203610048, 31203610050

Results by **SW-846 8260B**

		Matrix Spike (ug/Kg)			Spike Duplicate (ug/Kg)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Chloroethane	ND	465057	480000	103	465057	513000	110	21.0-182	6.4	30.00
Chloroform	ND	465057	489000	105	465057	500000	108	71.0-143	2.3	30.00
Chloromethane	ND	465057	516000	111	465057	488000	105	69.0-138	5.6	30.00
Dibromochloromethane	ND	465057	417000	90	465057	476000	102	78.0-141	13	30.00
Dibromomethane	ND	465057	476000	102	465057	478000	103	80.0-150	0.27	30.00
Dichlorodifluoromethane	ND	465057	508000	109	465057	500000	108	82.0-130	1.5	30.00
cis-1,3-Dichloropropene	ND	465057	431000	93	465057	424000	91	72.0-146	1.5	30.00
trans-1,3-Dichloropropene	ND	465057	450000	97	465057	468000	101	45.0-144	3.9	30.00
Diisopropyl Ether	ND	465057	460000	99	465057	459000	99	79.0-122	0.28	30.00
Ethyl Benzene	ND	465057	499000	107	465057	505000	109	74.0-126	1.3	30.00
Hexachlorobutadiene	ND	465057	511000	110	465057	489000	105	52.0-134	4.3	30.00
Isopropylbenzene (Cumene)	ND	465057	514000	111	465057	507000	109	74.0-123	1.5	30.00
Methyl iodide	ND	465057	427000	92	465057	453000	97	41.0-126	6.1	30.00
Methylene chloride	ND	465057	445000	96	465057	447000	96	49.0-155	0.57	30.00
Naphthalene	ND	465057	486000	104	465057	513000	110	55.0-140	5.6	30.00
Styrene	ND	465057	455000	98	465057	494000	106	73.0-123	8.3	30.00
Tetrachloroethene	3010000	465057	3550000	116	465057	3240000	48	46.0-153	9.3	30.00
Toluene	ND	465057	480000	103	465057	498000	107	66.0-128	3.6	30.00
Trichloroethene	149000	465057	630000	103	465057	610000	99	85.0-136	3.3	30.00
Trichlorofluoromethane	ND	465057	568000	122	465057	508000	109	77.0-132	11	30.00
Vinyl chloride	ND	465057	465000	100	465057	441000	95	68.0-137	5.3	30.00
cis-1,2-Dichloroethene	46500	465057	511000	110	465057	521000	112	77.0-134	2.0	30.00
m,p-Xylene	20500	930114	1010000	109	930114	1030000	111	80.0-118	1.7	30.00
n-Propylbenzene	ND	465057	511000	110	465057	536000	115	72.0-128	4.9	30.00
o-Xylene	ND	465057	511000	110	465057	499000	107	80.0-121	2.5	30.00
sec-Butylbenzene	ND	465057	489000	105	465057	485000	104	57.0-138	1.0	30.00
tert-Butyl methyl ether (MTBE)	ND	465057	443000	95	465057	468000	101	67.0-135	5.6	30.00
tert-Butylbenzene	ND	465057	486000	104	465057	510000	110	61.0-142	4.9	30.00
trans-1,2-Dichloroethene	ND	465057	474000	102	465057	466000	100	72.0-135	1.6	30.00
trans-1,4-Dichloro-2-butene	ND	2325286	1930000	83	2325286	2360000	101	49.0-211	20	30.00

Surrogates

1,2-Dichloroethane-d4	104	94	55.0-173
4-Bromofluorobenzene	98	102	23.0-141
Toluene d8	95	98	57.0-134

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Matrix Spike Summary

Original Sample ID: 31203610031 (SB42-4-5) — Analysis Date: 11/09/2012 18:51
MS Sample ID: 99553 — Analysis Date: 11/09/2012 19:40
MSD Sample ID: 99554 — Analysis Date: 11/09/2012 20:04
Matrix: Soil-Solid as dry weight

QC for Samples: 31203610031, 31203610037, 31203610038, 31203610039, 31203610040, 31203610041, 31203610042, 31203610043, 31203610044, 31203610047, 31203610048, 31203610050

Results by **SW-846 8260B**

		Matrix Spike (%)			Spike Duplicate (%)				
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL

Batch Information

Analytical Batch: **VMS2728**
Analytical Method: **SW-846 8260B**
Instrument: **MSD8**
Analyst: **DVO**

Prep Batch: **VXX4327**
Prep Method: **SW-846 5035 SM**
Prep Date/Time: **11/06/2012 12:16**
MS Init Wt./Vol.: **6.83 g** Extract Vol.: **5 mL**
MSD Init Wt./Vol.: **6.83 g** Extract Vol.: **5 mL**

Print Date: 11/28/2012 — N.C. Certification # 481

Batch Summary

Analytical Method: SW-846 8260B

Prep Method: SW-846 5035 SM
Prep Batch: VXX4329
Prep Date: 11/12/2012 08:14

Client Sample ID	Lab Sample ID	Analysis Date	Analytical Batch	Instrument	Analyst
LCS-S for HBN 31514 [VXX/4329]	99591	11/12/2012 11:13	VMS2730	MSD8	BWS
LCSD-S for HBN 31514 [VXX/4329	99592	11/12/2012 11:38	VMS2730	MSD8	BWS
MB-S for HBN 31514 [VXX/4329]	99590	11/12/2012 13:16	VMS2730	MSD8	BWS
SB45-1-2	31203610052	11/12/2012 14:05	VMS2730	MSD8	BWS
SB45-2-3	31203610053	11/12/2012 14:30	VMS2730	MSD8	BWS
SB45-3-4	31203610054	11/12/2012 14:54	VMS2730	MSD8	BWS
SB45-5-6	31203610056	11/12/2012 15:19	VMS2730	MSD8	BWS
SB45-6-7	31203610057	11/12/2012 15:43	VMS2730	MSD8	BWS
SB45-7-8	31203610058	11/12/2012 16:08	VMS2730	MSD8	BWS
SB44-2-3	31203610045	11/12/2012 16:32	VMS2730	MSD8	BWS
SB44-3-4	31203610046	11/12/2012 16:57	VMS2730	MSD8	BWS
SB44-6-7	31203610049	11/12/2012 17:21	VMS2730	MSD8	BWS
SB44-6-7(98161MS)	99593	11/12/2012 17:46	VMS2730	MSD8	BWS
SB44-6-7(98161MSD)	99594	11/12/2012 18:11	VMS2730	MSD8	BWS

Print Date: 11/28/2012

N.C. Certification # 481

Method Blank

Blank ID: MB-S for HBN 31514 [VXX/4329]
Matrix: Soil-Solid as dry weight
Blank Lab ID: 99590
QC for Samples:
31203610045, 31203610046, 31203610049, 31203610052, 31203610053, 31203610054, 31203610056, 31203610057, 31203610058

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF
Dichlorodifluoromethane	ND	U	8.55	250	ug/Kg	50
Chloromethane	ND	U	22.4	50.0	ug/Kg	50
Vinyl chloride	ND	U	6.20	50.0	ug/Kg	50
Bromomethane	ND	U	11.9	50.0	ug/Kg	50
Chloroethane	ND	U	15.6	50.0	ug/Kg	50
Trichlorofluoromethane	ND	U	6.85	50.0	ug/Kg	50
1,1-Dichloroethene	ND	U	10.6	50.0	ug/Kg	50
Acetone	ND	U	43.2	1250	ug/Kg	50
Methylene chloride	ND	U	7.60	250	ug/Kg	50
trans-1,2-Dichloroethene	ND	U	11.2	50.0	ug/Kg	50
tert-Butyl methyl ether (MTBE)	ND	U	7.20	50.0	ug/Kg	50
1,1-Dichloroethane	ND	U	8.25	50.0	ug/Kg	50
Diisopropyl Ether	ND	U	14.7	50.0	ug/Kg	50
2,2-Dichloropropane	ND	U	19.7	50.0	ug/Kg	50
cis-1,2-Dichloroethene	ND	U	6.80	50.0	ug/Kg	50
2-Butanone	ND	U	36.2	1250	ug/Kg	50
Bromochloromethane	ND	U	10.6	50.0	ug/Kg	50
Chloroform	ND	U	6.95	50.0	ug/Kg	50
1,1,1-Trichloroethane	ND	U	6.15	50.0	ug/Kg	50
Carbon tetrachloride	ND	U	5.05	50.0	ug/Kg	50
1,1-Dichloropropene	ND	U	4.32	50.0	ug/Kg	50
Benzene	ND	U	5.65	50.0	ug/Kg	50
1,2-Dichloroethane	ND	U	8.35	50.0	ug/Kg	50
Trichloroethene	ND	U	6.25	50.0	ug/Kg	50
1,2-Dichloropropane	ND	U	8.15	50.0	ug/Kg	50
Dibromomethane	ND	U	8.40	50.0	ug/Kg	50
Bromodichloromethane	ND	U	5.50	50.0	ug/Kg	50
cis-1,3-Dichloropropene	ND	U	3.84	50.0	ug/Kg	50
4-Methyl-2-pentanone	ND	U	27.9	250	ug/Kg	50
Toluene	ND	U	6.65	50.0	ug/Kg	50
Methyl iodide	ND	U	5.75	50.0	ug/Kg	50
trans-1,3-Dichloropropene	ND	U	4.31	50.0	ug/Kg	50
Carbon disulfide	ND	U	5.30	50.0	ug/Kg	50
1,1,2-Trichloroethane	ND	U	6.30	50.0	ug/Kg	50
Tetrachloroethene	ND	U	7.75	50.0	ug/Kg	50
1,3-Dichloropropane	ND	U	6.50	50.0	ug/Kg	50
2-Hexanone	ND	U	36.4	250	ug/Kg	50
Dibromochloromethane	ND	U	6.70	50.0	ug/Kg	50
1,2-Dibromoethane	ND	U	6.00	50.0	ug/Kg	50
Chlorobenzene	ND	U	5.80	50.0	ug/Kg	50
1,1,1,2-Tetrachloroethane	ND	U	5.20	50.0	ug/Kg	50

Print Date: 11/28/2012
N.C. Certification # 481

Method Blank

Blank ID: MB-S for HBN 31514 [VXX/4329]
Matrix: Soil-Solid as dry weight
Blank Lab ID: 99590
QC for Samples:
31203610045, 31203610046, 31203610049, 31203610052, 31203610053, 31203610054, 31203610056, 31203610057, 31203610058

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF
Bromoform	ND	U	4.87	50.0	ug/Kg	50
Bromobenzene	ND	U	5.50	50.0	ug/Kg	50
1,1,2,2-Tetrachloroethane	ND	U	7.80	50.0	ug/Kg	50
1,2,3-Trichloropropane	ND	U	10.6	50.0	ug/Kg	50
Ethyl Benzene	ND	U	4.39	50.0	ug/Kg	50
m,p-Xylene	ND	U	9.10	100	ug/Kg	50
Styrene	ND	U	5.10	50.0	ug/Kg	50
o-Xylene	ND	U	4.37	50.0	ug/Kg	50
Xylene (total)	ND	U	9.10	100	ug/Kg	50
Isopropylbenzene (Cumene)	ND	U	4.35	50.0	ug/Kg	50
n-Propylbenzene	ND	U	5.65	50.0	ug/Kg	50
2-Chlorotoluene	ND	U	5.65	50.0	ug/Kg	50
4-Chlorotoluene	ND	U	6.25	50.0	ug/Kg	50
1,3,5-Trimethylbenzene	ND	U	5.65	50.0	ug/Kg	50
tert-Butylbenzene	ND	U	4.28	50.0	ug/Kg	50
1,2,4-Trimethylbenzene	ND	U	4.81	50.0	ug/Kg	50
sec-Butylbenzene	ND	U	5.60	50.0	ug/Kg	50
1,3-Dichlorobenzene	ND	U	5.15	50.0	ug/Kg	50
4-Isopropyltoluene	ND	U	3.85	50.0	ug/Kg	50
1,4-Dichlorobenzene	ND	U	6.50	50.0	ug/Kg	50
1,2-Dichlorobenzene	ND	U	6.85	50.0	ug/Kg	50
n-Butylbenzene	ND	U	3.85	50.0	ug/Kg	50
1,2-Dibromo-3-chloropropane	ND	U	37.4	250	ug/Kg	50
1,2,4-Trichlorobenzene	ND	U	4.57	50.0	ug/Kg	50
Hexachlorobutadiene	ND	U	3.96	50.0	ug/Kg	50
Naphthalene	ND	U	4.28	50.0	ug/Kg	50
trans-1,4-Dichloro-2-butene	ND	U	20.7	250	ug/Kg	50
1,2,3-Trichlorobenzene	ND	U	5.50	50.0	ug/Kg	50
Surrogates						
1,2-Dichloroethane-d4	99.0			55.0-173	%	50
Toluene d8	94.0			57.0-134	%	50
4-Bromofluorobenzene	101			23.0-141	%	50

Batch Information

Analytical Batch: VMS2730
Analytical Method: SW-846 8260B
Instrument: MSD8
Analyst: BWS

Prep Batch: VXX4329
Prep Method: SW-846 5035 SM
Prep Date/Time: 11/12/2012 8:14:05AM
Prep Initial Wt./Vol.: 5 g
Prep Extract Vol: 5 mL

Print Date: 11/28/2012
N.C. Certification # 481

Blank Spike Summary

Blank Spike ID: LCS-S for HBN 31514 [VXX/4329]
Blank Spike Lab ID: 99591
Date Analyzed: 11/12/2012 11:13

Spike Duplicate ID: LCSD-S for HBN 31514 [VXX/4329
Spike Duplicate Lab ID: 99592
Date Analyzed: 11/12/2012 11:38
Matrix: Soil-Solid as dry weight

QC for Samples: 31203610045, 31203610046, 31203610049, 31203610052, 31203610053, 31203610054, 31203610056, 31203610057, 31203610058

Results by **SW-846 8260B**

	Blank Spike (ug/Kg)			Spike Duplicate (ug/Kg)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Dichlorodifluoromethane	250	270	108	250	291	116	70.0-130	7.5	30.00
Chloromethane	250	278	111	250	305	122	70.0-130	9.3	30.00
Vinyl chloride	250	249	99	250	281	112	70.0-130	12	30.00
Bromomethane	250	318	127	250	361	**144***	70.0-130	13	30.00
Chloroethane	250	290	116	250	334	**134***	70.0-130	14	30.00
Trichlorofluoromethane	250	285	114	250	316	126	70.0-130	10	30.00
1,1-Dichloroethene	250	258	103	250	245	98	70.0-130	5.2	30.00
Acetone	1250	1060	85	1250	839	**67***	70.0-130	23	30.00
Methylene chloride	250	250	100	250	264	105	70.0-130	5.4	30.00
trans-1,2-Dichloroethene	250	244	98	250	258	103	70.0-130	5.6	30.00
tert-Butyl methyl ether (MTBE)	250	256	102	250	257	103	70.0-130	0.39	30.00
1,1-Dichloroethane	250	246	98	250	255	102	70.0-130	3.6	30.00
Diisopropyl Ether	250	250	100	250	257	103	70.0-130	2.8	30.00
2,2-Dichloropropane	250	273	109	250	283	113	70.0-130	3.6	30.00
cis-1,2-Dichloroethene	250	261	104	250	275	110	70.0-130	5.2	30.00
2-Butanone	1250	1040	83	1250	1010	81	70.0-130	2.9	30.00
Bromochloromethane	250	268	107	250	255	102	70.0-130	5.0	30.00
Chloroform	250	267	107	250	268	107	70.0-130	0.37	30.00
1,1,1-Trichloroethane	250	271	108	250	268	107	70.0-130	1.1	30.00
Carbon tetrachloride	250	262	105	250	285	114	70.0-130	8.4	30.00
1,1-Dichloropropene	250	269	108	250	266	106	70.0-130	1.1	30.00
Benzene	250	274	110	250	265	106	70.0-130	3.3	30.00
1,2-Dichloroethane	250	285	114	250	279	112	70.0-130	2.1	30.00
Trichloroethene	250	271	108	250	273	109	70.0-130	0.74	30.00
1,2-Dichloropropane	250	267	107	250	269	108	70.0-130	0.75	30.00
Dibromomethane	250	272	109	250	269	107	70.0-130	1.1	30.00
Bromodichloromethane	250	271	108	250	268	107	70.0-130	1.1	30.00
cis-1,3-Dichloropropene	250	244	98	250	267	107	70.0-130	9.0	30.00
4-Methyl-2-pentanone	1250	1250	100	1250	1250	100	70.0-130	0.0	30.00
Toluene	250	271	108	250	267	107	70.0-130	1.5	30.00
Methyl iodide	250	246	98	250	254	101	70.0-130	3.2	30.00
trans-1,3-Dichloropropene	250	267	107	250	281	112	70.0-130	5.1	30.00
Carbon disulfide	250	291	116	250	292	117	70.0-130	0.34	30.00
1,1,2-Trichloroethane	250	293	117	250	281	112	70.0-130	4.2	30.00

Print Date: 11/28/2012

N.C. Certification # 481

Blank Spike Summary

Blank Spike ID: LCS-S for HBN 31514 [VXX/4329]
Blank Spike Lab ID: 99591
Date Analyzed: 11/12/2012 11:13

Spike Duplicate ID: LCSD-S for HBN 31514 [VXX/4329
Spike Duplicate Lab ID: 99592
Date Analyzed: 11/12/2012 11:38
Matrix: Soil-Solid as dry weight

QC for Samples: 31203610045, 31203610046, 31203610049, 31203610052, 31203610053, 31203610054, 31203610056, 31203610057, 31203610058

Results by **SW-846 8260B**

	Blank Spike (ug/Kg)			Spike Duplicate (ug/Kg)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Tetrachloroethene	250	284	113	250	325	130	70.0-130	13	30.00
1,3-Dichloropropane	250	264	105	250	284	114	70.0-130	7.3	30.00
2-Hexanone	1250	1110	88	1250	1100	88	70.0-130	0.90	30.00
Dibromochloromethane	250	260	104	250	266	106	70.0-130	2.3	30.00
1,2-Dibromoethane	250	300	120	250	281	112	70.0-130	6.5	30.00
Chlorobenzene	250	276	110	250	312	125	70.0-130	12	30.00
1,1,1,2-Tetrachloroethane	250	270	108	250	294	117	70.0-130	8.5	30.00
Bromoform	250	288	115	250	271	108	70.0-130	6.1	30.00
Bromobenzene	250	272	109	250	300	120	70.0-130	9.8	30.00
1,1,2,2-Tetrachloroethane	250	277	111	250	271	108	70.0-130	2.2	30.00
1,2,3-Trichloropropane	250	276	110	250	243	97	70.0-130	13	30.00
Ethyl Benzene	250	267	107	250	257	103	70.0-130	3.8	30.00
m,p-Xylene	500	575	115	500	537	107	70.0-130	6.8	30.00
Styrene	250	263	105	250	263	105	70.0-130	0.0	30.00
o-Xylene	250	294	118	250	252	101	70.0-130	15	30.00
Isopropylbenzene (Cumene)	250	277	111	250	264	105	70.0-130	4.8	30.00
n-Propylbenzene	250	287	115	250	271	108	70.0-130	5.7	30.00
2-Chlorotoluene	250	275	110	250	279	111	70.0-130	1.4	30.00
4-Chlorotoluene	250	271	108	250	241	96	70.0-130	12	30.00
1,3,5-Trimethylbenzene	250	288	115	250	279	111	70.0-130	3.2	30.00
tert-Butylbenzene	250	269	108	250	258	103	70.0-130	4.2	30.00
1,2,4-Trimethylbenzene	250	251	100	250	265	106	70.0-130	5.4	30.00
sec-Butylbenzene	250	266	106	250	262	105	70.0-130	1.5	30.00
1,3-Dichlorobenzene	250	298	119	250	268	107	70.0-130	11	30.00
4-Isopropyltoluene	250	258	103	250	248	99	70.0-130	4.0	30.00
1,4-Dichlorobenzene	250	284	113	250	265	106	70.0-130	6.9	30.00
1,2-Dichlorobenzene	250	293	117	250	263	105	70.0-130	11	30.00
n-Butylbenzene	250	294	117	250	272	109	70.0-130	7.8	30.00
1,2-Dibromo-3-chloropropane	1500	1610	107	1500	1490	99	70.0-130	7.7	30.00
1,2,4-Trichlorobenzene	250	247	99	250	298	119	70.0-130	19	30.00
Hexachlorobutadiene	250	285	114	250	290	116	70.0-130	1.7	30.00
Naphthalene	250	241	96	250	270	108	70.0-130	11	30.00
trans-1,4-Dichloro-2-butene	1250	1340	107	1250	1160	93	70.0-130	14	30.00
1,2,3-Trichlorobenzene	250	298	119	250	277	111	70.0-130	7.3	30.00

Print Date: 11/28/2012

N.C. Certification # 481

Blank Spike Summary

Blank Spike ID: LCS-S for HBN 31514 [VXX/4329]
Blank Spike Lab ID: 99591
Date Analyzed: 11/12/2012 11:13

Spike Duplicate ID: LCSD-S for HBN 31514 [VXX/4329
Spike Duplicate Lab ID: 99592
Date Analyzed: 11/12/2012 11:38
Matrix: Soil-Solid as dry weight

QC for Samples: 31203610045, 31203610046, 31203610049, 31203610052, 31203610053, 31203610054, 31203610056, 31203610057, 31203610058

Results by **SW-846 8260B**

	Blank Spike (ug/Kg)			Spike Duplicate (ug/Kg)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Surrogates									
1,2-Dichloroethane-d4			95			100	55.0-173		
Toluene d8			92			97	57.0-134		
4-Bromofluorobenzene			101			111	23.0-141		

Batch Information

Analytical Batch: **VMS2730**
Analytical Method: **SW-846 8260B**
Instrument: **MSD8**
Analyst: **BWS**

Prep Batch: **VXX4329**
Prep Method: **SW-846 5035 SM**
Prep Date/Time: **11/12/2012 08:14**
Spike Init Wt./Vol.: **5 g** Extract Vol: **5 mL**
Dupe Init Wt./Vol.: **5 g** Extract Vol: **5 mL**

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Matrix Spike Summary

Original Sample ID: 31203610049 (SB44-6-7) — Analysis Date: 11/12/2012 17:21
MS Sample ID: 99593 — Analysis Date: 11/12/2012 17:46
MSD Sample ID: 99594 — Analysis Date: 11/12/2012 18:11
Matrix: Soil-Solid as dry weight

QC for Samples: 31203610045, 31203610046, 31203610049, 31203610052, 31203610053, 31203610054, 31203610056, 31203610057, 31203610058

Results by **SW-846 8260B**

		Matrix Spike (ug/Kg)			Spike Duplicate (ug/Kg)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
1,1,1,2-Tetrachloroethane	ND	94770	134000	142 *	94770	138000	145 *	69.0-120	2.8	30.00
1,1,1-Trichloroethane	ND	94770	150000	159 *	94770	167000	176 *	78.0-121	10	30.00
1,1,2,2-Tetrachloroethane	ND	94770	127000	134	94770	136000	144 *	76.0-136	7.5	30.00
1,1,2-Trichloroethane	ND	94770	131000	138 *	94770	147000	155 *	65.0-128	12	30.00
1,1-Dichloroethane	ND	94770	126000	133	94770	138000	146 *	72.0-139	8.9	30.00
1,1-Dichloroethene	ND	94770	122000	129	94770	146000	154 *	72.0-135	18	30.00
1,1-Dichloropropene	ND	94770	141000	149 *	94770	155000	164 *	69.0-137	10	30.00
1,2,3-Trichlorobenzene	ND	94770	127000	134 *	94770	141000	148 *	61.0-126	10	30.00
1,2,3-Trichloropropane	ND	94770	137000	144	94770	115000	121	10.0-218	17	30.00
1,2,4-Trichlorobenzene	ND	94770	115000	121	94770	122000	129 *	61.0-125	6.2	30.00
1,2,4-Trimethylbenzene	ND	94770	122000	129	94770	130000	137	31.0-172	6.4	30.00
1,2-Dibromo-3-chloropropane	ND	568878	656000	115	568878	734000	129	43.0-229	11	30.00
1,2-Dibromoethane	ND	94770	120000	127	94770	145000	153 *	78.0-148	19	30.00
1,2-Dichlorobenzene	ND	94770	133000	140	94770	140000	148	58.0-148	5.6	30.00
1,2-Dichloroethane	ND	94770	147000	156 *	94770	164000	173 *	73.0-146	11	30.00
1,2-Dichloropropane	ND	94770	132000	139 *	94770	143000	151 *	76.0-136	7.4	30.00
1,3,5-Trimethylbenzene	ND	94770	129000	136 *	94770	146000	154 *	68.0-132	12	30.00
1,3-Dichlorobenzene	ND	94770	130000	137	94770	137000	145	55.0-145	5.7	30.00
1,3-Dichloropropane	ND	94770	121000	128	94770	136000	143 *	33.0-137	12	30.00
1,4-Dichlorobenzene	ND	94770	121000	127	94770	134000	141	53.0-146	10	30.00
2,2-Dichloropropane	ND	94770	145000	153 *	94770	147000	155 *	58.0-150	1.8	30.00
2-Butanone	ND	473214	622000	131	473214	678000	143	41.0-256	8.4	30.00
2-Chlorotoluene	ND	94770	125000	132	94770	135000	142	60.0-144	7.7	30.00
2-Hexanone	ND	473214	498000	105	473214	583000	123 *	42.0-111	16	30.00
4-Chlorotoluene	ND	94770	124000	130	94770	133000	140	59.0-141	7.1	30.00
4-Isopropyltoluene	ND	94770	113000	119	94770	117000	124 *	75.0-122	3.9	30.00
4-Methyl-2-pentanone	ND	473214	635000	134	473214	711000	150	6.90-166	11	30.00
Acetone	ND	473214	517000	109	473214	579000	122	6.80-355	11	30.00
Benzene	ND	94770	134000	142 *	94770	145000	153 *	75.0-133	8.2	30.00
Bromobenzene	ND	94770	128000	136	94770	153000	161 *	66.0-140	17	30.00
Bromochloromethane	ND	94770	135000	142 *	94770	137000	144 *	85.0-136	0.94	30.00
Bromodichloromethane	ND	94770	135000	142 *	94770	153000	162 *	77.0-140	13	30.00
Bromoform	ND	94770	133000	141	94770	143000	151	75.0-151	7.4	30.00
Bromomethane	ND	94770	124000	130 *	94770	159000	168 *	30.0-127	25	30.00
n-Butylbenzene	ND	94770	127000	134	94770	141000	149 *	41.0-147	11	30.00
Carbon disulfide	ND	94770	130000	137	94770	154000	163 *	64.0-145	17	30.00
Carbon tetrachloride	ND	94770	147000	155 *	94770	155000	164 *	64.0-142	5.9	30.00
Chlorobenzene	ND	94770	131000	138 *	94770	148000	157 *	66.0-135	12	30.00

Print Date: 11/28/2012 — N.C. Certification # 481

Matrix Spike Summary

Original Sample ID: 31203610049 (SB44-6-7) — Analysis Date: 11/12/2012 17:21
MS Sample ID: 99593 — Analysis Date: 11/12/2012 17:46
MSD Sample ID: 99594 — Analysis Date: 11/12/2012 18:11
Matrix: Soil-Solid as dry weight

QC for Samples: 31203610045, 31203610046, 31203610049, 31203610052, 31203610053, 31203610054, 31203610056, 31203610057, 31203610058

Results by **SW-846 8260B**

		Matrix Spike (ug/Kg)			Spike Duplicate (ug/Kg)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Chloroethane	ND	94770	119000	126	94770	139000	147	21.0-182	15	30.00
Chloroform	ND	94770	147000	155 *	94770	146000	154 *	71.0-143	0.0	30.00
Chloromethane	ND	94770	133000	140 *	94770	156000	165 *	69.0-138	17	30.00
Dibromochloromethane	ND	94770	122000	129	94770	141000	149 *	78.0-141	14	30.00
Dibromomethane	ND	94770	133000	140	94770	144000	152 *	80.0-150	8.3	30.00
Dichlorodifluoromethane	ND	94770	130000	138 *	94770	146000	154 *	82.0-130	12	30.00
cis-1,3-Dichloropropene	ND	94770	127000	134	94770	147000	155 *	72.0-146	15	30.00
trans-1,3-Dichloropropene	ND	94770	135000	142	94770	147000	155 *	45.0-144	8.1	30.00
Diisopropyl Ether	ND	94770	136000	144 *	94770	144000	152 *	79.0-122	5.5	30.00
Ethyl Benzene	3600	94770	121000	127 *	94770	137000	145 *	74.0-126	13	30.00
Hexachlorobutadiene	ND	94770	126000	133	94770	130000	138 *	52.0-134	3.5	30.00
Isopropylbenzene (Cumene)	ND	94770	122000	129 *	94770	139000	147 *	74.0-123	13	30.00
Methyl iodide	ND	94770	123000	130 *	94770	134000	142 *	41.0-126	8.5	30.00
Methylene chloride	ND	94770	136000	144	94770	136000	143	49.0-155	0.0	30.00
Naphthalene	ND	94770	102000	108	94770	126000	133	55.0-140	21	30.00
Styrene	ND	94770	121000	128 *	94770	133000	140 *	73.0-123	8.9	30.00
Tetrachloroethene	742000	94770	937000	205 *	94770	1920000	1241 *	46.0-153	69*	30.00
Toluene	ND	94770	132000	140 *	94770	145000	153 *	66.0-128	9.2	30.00
Trichloroethene	5500	94770	133000	140 *	94770	157000	166 *	85.0-136	17	30.00
Trichlorofluoromethane	ND	94770	128000	135 *	94770	154000	162 *	77.0-132	19	30.00
Vinyl chloride	ND	94770	112000	118	94770	130000	137	68.0-137	15	30.00
cis-1,2-Dichloroethene	ND	94770	137000	144 *	94770	145000	153 *	77.0-134	6.3	30.00
m,p-Xylene	9480	190051	261000	138 *	190051	304000	160 *	80.0-118	15	30.00
n-Propylbenzene	ND	94770	128000	135 *	94770	138000	145 *	72.0-128	6.7	30.00
o-Xylene	3600	94770	128000	136 *	94770	146000	155 *	80.0-121	13	30.00
sec-Butylbenzene	ND	94770	122000	129	94770	132000	139 *	57.0-138	7.2	30.00
tert-Butyl methyl ether (MTBE)	ND	94770	146000	154 *	94770	146000	154 *	67.0-135	0.87	30.00
tert-Butylbenzene	ND	94770	115000	122	94770	128000	135	61.0-142	10	30.00
trans-1,2-Dichloroethene	ND	94770	134000	142 *	94770	141000	149 *	72.0-135	5.6	30.00
trans-1,4-Dichloro-2-butene	ND	473214	584000	123	473214	637000	134	49.0-211	8.6	30.00

Surrogates

1,2-Dichloroethane-d4	112	109	55.0-173
4-Bromofluorobenzene	98	104	23.0-141
Toluene d8	102	100	57.0-134

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Matrix Spike Summary

Original Sample ID: 31203610049 (SB44-6-7) — Analysis Date: 11/12/2012 17:21
MS Sample ID: 99593 — Analysis Date: 11/12/2012 17:46
MSD Sample ID: 99594 — Analysis Date: 11/12/2012 18:11
Matrix: Soil-Solid as dry weight

QC for Samples: 31203610045, 31203610046, 31203610049, 31203610052, 31203610053, 31203610054, 31203610056, 31203610057, 31203610058

Results by **SW-846 8260B**

		Matrix Spike (%)			Spike Duplicate (%)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL

Batch Information

Analytical Batch: **VMS2730**
Analytical Method: **SW-846 8260B**
Instrument: **MSD8**
Analyst: **BWS**

Prep Batch: **VXX4329**
Prep Method: **SW-846 5035 SM**
Prep Date/Time: **11/06/2012 16:23**
MS Init Wt./Vol.: **6.73 g** Extract Vol.: **5 mL**
MSD Init Wt./Vol.: **6.73 g** Extract Vol.: **5 mL**

Print Date: 11/28/2012 — N.C. Certification # 481

Batch Summary

Analytical Method: SW-846 8260B-TCLP

Prep Method: SW-846 5030B
Prep Batch: VXX4324
Prep Date: 11/13/2012 08:54

Client Sample ID	Lab Sample ID	Analysis Date	Analytical Batch	Instrument	Analyst
LCS for HBN 31475 [VXX/4324]	99435	11/13/2012 10:07	VMS2734	MSD8	BWS
LCSD for HBN 31475 [VXX/4324]	99436	11/13/2012 10:32	VMS2734	MSD8	BWS
MB for HBN 31475 [VXX/4324]	99437	11/13/2012 11:21	VMS2734	MSD8	BWS
TCLP-B for HBN 31452 [LCH/1329	99305	11/13/2012 16:15	VMS2734	MSD8	BWS
East Trench Bedding-SS (TCLP)	31203610059	11/13/2012 16:40	VMS2734	MSD8	BWS
East Trench Bedding-SW (TCLP)	31203610060	11/13/2012 17:04	VMS2734	MSD8	BWS
West Trench Bedding-SW (TCLP)	31203610061	11/13/2012 17:29	VMS2734	MSD8	BWS
West Trench Bedding-SS (TCLP)	31203610062	11/13/2012 17:53	VMS2734	MSD8	BWS
IDW-Box 1 (TCLP)	31203610063	11/13/2012 18:18	VMS2734	MSD8	BWS
IDW-Box 2 (TCLP)	31203610064	11/13/2012 18:42	VMS2734	MSD8	BWS
IDW-Box 3 (TCLP)	31203610065	11/13/2012 19:07	VMS2734	MSD8	BWS
Incinerator Ash 2012(98551MS)	99672	11/13/2012 19:56	VMS2734	MSD8	BWS
Incinerator Ash 2012(98551MSD)	99673	11/13/2012 20:20	VMS2734	MSD8	BWS

Print Date: 11/28/2012

N.C. Certification # 481

Method Blank

Blank ID: TCLP-B for HBN 31452 [LCH/1329 Matrix: Water
Blank Lab ID: 99305
QC for Samples:
31203610059, 31203610060, 31203610061, 31203610062, 31203610063, 31203610064, 31203610065

Results by **SW-846 8260B-TCLP**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF
Vinyl chloride	ND	U	1.89	10.0	ug/L	10
1,1-Dichloroethene	ND	U	2.88	10.0	ug/L	10
2-Butanone	ND	U	15.3	250	ug/L	10
Chloroform	ND	U	1.84	10.0	ug/L	10
Carbon tetrachloride	ND	U	2.70	10.0	ug/L	10
Benzene	ND	U	1.56	10.0	ug/L	10
1,2-Dichloroethane	ND	U	2.96	10.0	ug/L	10
Trichloroethene	ND	U	2.27	10.0	ug/L	10
Tetrachloroethene	ND	U	2.64	10.0	ug/L	10
Chlorobenzene	ND	U	2.69	10.0	ug/L	10
1,4-Dichlorobenzene	ND	U	4.63	10.0	ug/L	10
Surrogates						
1,2-Dichloroethane-d4	97.0			64.0-140	%	10
Toluene d8	97.0			82.0-117	%	10
4-Bromofluorobenzene	95.0			85.0-115	%	10

Batch Information

Analytical Batch: VMS2734
Analytical Method: SW-846 8260B-TCLP
Instrument: MSD8
Analyst: BWS

Prep Batch: VXX4324
Prep Method: SW-846 5030B TCLP
Prep Date/Time: 11/13/2012 8:44:48AM
Prep Initial Wt./Vol.: 40 mL
Prep Extract Vol: 40 mL

Print Date: 11/28/2012 N.C. Certification # 481

Method Blank

Blank ID: MB for HBN 31475 [VXX/4324]
Matrix: Water
Blank Lab ID: 99437
QC for Samples:
31203610059, 31203610060, 31203610061, 31203610062, 31203610063, 31203610064, 31203610065

Results by **SW-846 8260B-TCLP**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF
Vinyl chloride	ND	U	0.189	1.00	ug/L	1
1,1-Dichloroethene	ND	U	0.288	1.00	ug/L	1
2-Butanone	ND	U	1.53	25.0	ug/L	1
Chloroform	ND	U	0.184	1.00	ug/L	1
Carbon tetrachloride	ND	U	0.270	1.00	ug/L	1
Benzene	ND	U	0.156	1.00	ug/L	1
1,2-Dichloroethane	ND	U	0.296	1.00	ug/L	1
Trichloroethene	ND	U	0.227	1.00	ug/L	1
Tetrachloroethene	ND	U	0.264	1.00	ug/L	1
Chlorobenzene	ND	U	0.269	1.00	ug/L	1
1,4-Dichlorobenzene	ND	U	0.463	1.00	ug/L	1
Surrogates						
1,2-Dichloroethane-d4	102			64.0-140	%	1
Toluene d8	100			82.0-117	%	1
4-Bromofluorobenzene	102			85.0-115	%	1

Batch Information

Analytical Batch: VMS2734
Analytical Method: SW-846 8260B-TCLP
Instrument: MSD8
Analyst: BWS

Prep Batch: VXX4324
Prep Method: SW-846 5030B
Prep Date/Time: 11/13/2012 8:54:16AM
Prep Initial Wt./Vol.: 40 mL
Prep Extract Vol: 40 mL

Print Date: 11/28/2012
N.C. Certification # 481

Blank Spike Summary

Blank Spike ID: LCS for HBN 31475 [VXX/4324]
Blank Spike Lab ID: 99435
Date Analyzed: 11/13/2012 10:07

Spike Duplicate ID: LCSD for HBN 31475 [VXX/4324]
Spike Duplicate Lab ID: 99436
Date Analyzed: 11/13/2012 10:32
Matrix: Water

QC for Samples: 31203610059, 31203610060, 31203610061, 31203610062, 31203610063, 31203610064, 31203610065

Results by **SW-846 8260B-TCLP**

	Blank Spike (ug/L)			Spike Duplicate (ug/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Vinyl chloride	5.00	4.97	99	5.00	4.83	97	59.0-138	2.9	30.00
1,1-Dichloroethene	5.00	4.80	96	5.00	4.68	94	71.0-128	2.5	30.00
2-Butanone	25.0	24.2	97	25.0	22.3	89	58.0-134	8.2	30.00
Chloroform	5.00	5.58	112	5.00	5.26	105	74.0-124	5.9	30.00
Carbon tetrachloride	5.00	5.44	109	5.00	5.50	110	75.0-120	1.1	30.00
Benzene	5.00	5.15	103	5.00	5.10	102	76.0-124	0.98	30.00
1,2-Dichloroethane	5.00	5.64	113	5.00	5.15	103	76.0-119	9.1	30.00
Trichloroethene	5.00	4.92	98	5.00	4.84	97	74.0-121	1.6	30.00
Tetrachloroethene	5.00	5.22	104	5.00	4.57	91	59.0-112	13	30.00
Chlorobenzene	5.00	5.58	112	5.00	4.81	96	74.0-120	15	30.00
1,4-Dichlorobenzene	5.00	4.60	92	5.00	4.39	88	70.0-125	4.7	30.00
Surrogates									
1,2-Dichloroethane-d4			107			103	64.0-140		
Toluene d8			100			104	82.0-117		
4-Bromofluorobenzene			107			100	85.0-115		

Batch Information

Analytical Batch: **VMS2734**
Analytical Method: **SW-846 8260B-TCLP**
Instrument: **MSD8**
Analyst: **BWS**

Prep Batch: **VXX4324**
Prep Method: **SW-846 5030B**
Prep Date/Time: **11/13/2012 08:54**
Spike Init Wt./Vol.: **40 mL** Extract Vol: **40 mL**
Dupe Init Wt./Vol.: **40 mL** Extract Vol: **40 mL**

Print Date: 11/28/2012

N.C. Certification # 481

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105578

(1)

CLIENT: Solutions, Inc

CONTACT: Jody Overman PHONE NO: (919) 873-1661

PROJECT: SITE/PWSID#:

REPORTS TO: 1101 Nowell Rd FAX NO.: ( )

INVOICE TO: Emily Dare QUOTE #:

P.O. NUMBER: 2012.0009

SGS Reference: 31203610

PAGE 1 OF 6

(2)

LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX	No CONTAINERS	SAMPLE TYPE (C= COMP, G= GRAB)	8260-Low Detection	8260	TCLP-8260							REMARKS
	MW-8	10-30-12	1510	GW	3	G	X									Low con Analysis
	MW-4	10-30-12	1545	GW	3	G	X									
	East Trench Bedding-SS	10-31-12	1140	Soil	6	G		X	X							
	East Trench Bedding-SW	10-31-12	1200	S	6	G		X	X							
	West Trench Bedding-SW	10-31-12	1345	S	6	G		X	X							
	West trench water-SW	10-31-12	1405	GW	3	G	X									
	West Trench bedding-SS	10-31-12	1435	S	6	G		X	X							
	IDW-Box 1	10-31-12	1530	S	6	G		X	X							
	IDW-Box 2	10-31-12	1600	S	6	G		X	X							
	IDW-Box 3	10-31-12	1615	S	6	G		X	X							

(3) Analysis Required

(4)

Shipping Carrier:

Shipping Ticket No:

Samples Received Cold? (Circle) YES NO

Temperature°C: 2.2, 2.1, 3.3, 2.0

Special Deliverable Requirements:

Chain of Custody Seal: (Circle) INTACT BROKEN ABSENT

Special Instructions:

Requested Turnaround Time: ☐ RUSH _____ Date Needed ☒ STD

(5)

Collected/Relinquished By:(1)	Date	Time	Received By:
[signature]	11/2/12	1100	[signature]
Relinquished By: (2) [signature]	11/2/12	1400	Received By: [signature]
Relinquished By: (3)	Date	Time	Received By:
Relinquished By: (4)	Date	Time	Received By:

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❑ 5500 Business Drive **Wilmington, NC 28405** Tel: (910) 350-1903 Fax: (910) 350-1557

White - Retained by Lab
Pink - Retained by Client

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105572

(1)

CLIENT: Solutions-ies

CONTACT: Jody Overmyer PHONE NO: (919) 873-1060

PROJECT: SITE/PWSID# :

REPORTS TO: 1101 Nowell Rd FAX NO.: ( )

INVOICE TO: Emily David QUOTE #:

P.O. NUMBER: 2012.0009

SGS Reference: 31203610

PAGE 2 OF 6

(2)

LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX	No CONTAINERS	SAMPLE TYPE (C= COMP, G= GRAB)	Analysis Required (3) 8260									REMARKS
	SB40-0-1	11-1-12	830	S	5	G	X									
	SB40-1-2		835													
	SB40-2-3		845													
	SB40-3-4		855													
	SB40-4-5		905													
	SB40-5-6		915													
	SB40-6-7		920													
	SB40-7-8		930													
	SB41-0-1		1035													
	SB41-1-2		1045													

Preservatives Used

(5)

Collected/Relinquished By:(1)	Date	Time	Received By:
[signature]	11/2/12	1100	[signature]
Relinquished By: (2) [signature]	11/2/12	1400	[signature]
Relinquished By: (3)	Date	Time	Received By:
Relinquished By: (4)	Date	Time	Received By:

(4)

Shipping Carrier:

Shipping Ticket No:

Samples Received Cold? (Circle) YES NO

Temperature°C: 22.1 3.3 2.0

Special Deliverable Requirements:

Chain of Custody Seal: (Circle) INTACT BROKEN ABSENT

Special Instructions:

Requested Turnaround Time:

☐ RUSH _____ Date Needed ☒ STD

☐ 200 W. Potter Drive **Anchorage, AK 99518** Tel: (907) 562-2343 Fax: (907) 561-5301
☐ 5500 Business Drive **Wilmington, NC 28405** Tel: (910) 350-1903 Fax: (910) 350-1557

White - Retained by Lab
Pink - Retained by Client

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105573

(1)

CLIENT: Solutions-ies

CONTACT: Jody Overmyer PHONE NO: (919) 873 1060

PROJECT: SITE/PWSID#:

REPORTS TO: 4101 Nixon Rd FAX NO.: ( )

INVOICE TO: Emily Davis QUOTE #:

P.O. NUMBER: 2012.0009

SGS Reference: 31203610

PAGE 3 OF 6

(2)

LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX	No CONTAINERS	SAMPLE TYPE (C= COMP, G= GRAB)	Preservatives Used	Analysis Required (3) 8260								REMARKS
	SB41-2-3	11-1-12	1050	S	5	G		X								
	SB41-3-4		1055													
	SB41-4-5		1100													
	SB41-5-6		1105													
	SB41-6-7		1115													
	SB41-7-8		1120													
	SB42-0-1		1145													
	SB42-1-2		1150													
	SB42-2-3		1200													
	SB42-3-4		1205													

(5)

Collected/Relinquished By:(1)	Date	Time	Received By:
[signature]	11-1-12	1100	[signature]
Relinquished By: (2) [signature]	11/2/12	1400	Received By: [signature]
Relinquished By: (3)	Date	Time	Received By:
Relinquished By: (4)	Date	Time	Received By:

(4)

Shipping Carrier:

Shipping Ticket No:

Samples Received Cold? (Circle) YES NO

Temperature°C: 2.0

Special Deliverable Requirements:

Chain of Custody Seal: (Circle) INTACT BROKEN ABSENT

Special Instructions:

Requested Turnaround Time:

☒ RUSH _____ Date Needed ☐ STD

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❑ 5500 Business Drive **Wilmington, NC 28405** Tel: (910) 350-1903 Fax: (910) 350-1557

White - Retained by Lab
Pink - Retained by Client

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105577

(1)

CLIENT: Solutions-ies

CONTACT: Jody Werner PHONE NO:(619) 873-1060

PROJECT: SITE/PWSID# :

REPORTS TO: 1101 Newell Rd FAX NO.:( )

INVOICE TO: Emily Davis QUOTE #:

P.O. NUMBER: 2012.0019

SGS Reference: 31203610

PAGE 4 OF 6

(2)

LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX	No CONTAINERS	SAMPLE TYPE (C= COMP, G= GRAB)	Analysis Required (3): 8260	REMARKS
	SB42-4-5	11-1-12	1215	S	5	G		
	SB42-5-6		1220					
	SB42-6-7		1230					
	SB42-7-8		1235					
	SB43-0-1		1300					
	SB43-1-2		1305					
	SB43-2-3		1315					
	SB43-3-4		1325					
	SB43-4-5		1335					
	SB43-5-6		1340					

Preservatives Used:

(5)

Collected/Relinquished By:(1)	Date	Time	Received By:
Sean Hart	11-2-12	1100	[signature]
Relinquished By: (2) [signature]	11/2/12	1400	[signature]
Relinquished By: (3)	Date	Time	Received By:
Relinquished By: (4)	Date	Time	Received By:

(4)

Shipping Carrier:

Shipping Ticket No:

Samples Received Cold? (Circle) YES NO

Temperature°C: 21, 20.2, 3.3

Special Deliverable Requirements:

Chain of Custody Seal: (Circle) INTACT BROKEN ABSENT

Special Instructions:

Requested Turnaround Time:

☐ RUSH _____ Date Needed ☑ STD

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White - Retained by Lab
Pink - Retained by Client

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105576

(1)

CLIENT: Solutions-IES

CONTACT: Jody Overman PHONE NO: (919) 873-1010

PROJECT: SITE/PWSID# :

REPORTS TO: 1101 Nowell Rd Raleigh NC 27607 FAX NO.:( )

INVOICE TO: Emily Davis QUOTE #:

P.O. NUMBER: 2012.0009

SGS Reference: 31203610

PAGE 5 OF 6

(2)

LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX	No CONTAINERS	SAMPLE TYPE (C= COMP, G= GRAB)	Preservatives Used	Analysis Required (3) 8260									REMARKS
	SB43-6-7	11-1-12	1350	S	5	G		X									
	SB43-7-8	↓	1355	↓	↓	↓		↓									
	SB44-0-1		1445														
	SB44-1-2		1455														
	SB44-2-3		1500														
	SB44-3-4		1505														
	SB44-4-5		1515														
	SB44-5-6		1520														
	SB44-6-7		1525														
	SB44-7-8	↓	1530	↓	↓	↓		↓									

(5)

Collected/Relinquished By:(1)	Date	Time	Received By:
[signature]	11-2-12	1100	[signature]
Relinquished By: (2) [signature]	11/2/12	1400	Received By: [signature]
Relinquished By: (3)	Date	Time	Received By:
Relinquished By: (4)	Date	Time	Received By:

(4)

Shipping Carrier:

Shipping Ticket No:

Samples Received Cold? (Circle) YES NO

Temperature°C: 2.1, 2.0, 2.3, 3.3

Special Deliverable Requirements:

Chain of Custody Seal: (Circle) INTACT BROKEN ABSENT

Special Instructions:

Requested Turnaround Time:

☐ RUSH _____ Date Needed ☒ STD

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White - Retained by Lab
Pink - Retained by Client

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105575

(1)

CLIENT: Solutions - IES

CONTACT: Jody Overmyer PHONE NO:(919) 873-1060

PROJECT: SITE/PWSID# :

REPORTS TO: 1101 Nowell Rd Raleigh NC 27607 FAX NO.:( )

INVOICE TO: Emily Davis QUOTE #:

P.O. NUMBER: 2012.0009

SGS Reference: 31203610

PAGE 6 OF 6

(2)

LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX	No CONTAINERS	SAMPLE TYPE (C= COMP, G= GRAB)	Preservatives Used	Analysis Required (3) 8260									REMARKS
	SB 45-0-1	11-1-12	1615	S	5	G		X									
	SB 45-1-2		1620					X									
	SB 45-2-3		1625					X									
	SB 45-3-4		1630					X									
	SB 45-4-5		1640					X									
	SB 45-5-6		1645					X									
	SB 45-6-7		1650					X									
	SB 45-7-8		1655					X									

(5)

Collected/Relinquished By:(1)	Date	Time	Received By:
[signature]	11-2-12	1100	[signature]
Relinquished By: (2) [signature]	11/2/12	1400	Received By: [signature]
Relinquished By: (3)	Date	Time	Received By:
Relinquished By: (4)	Date	Time	Received By:

(4)

Shipping Carrier:

Shipping Ticket No:

Samples Received Cold? (Circle) YES NO

Temperature°C: 2.2, 2.0, 2.1, 2.3°C

Special Deliverable Requirements:

Chain of Custody Seal: (Circle) INTACT BROKEN ABSENT

Special Instructions:

Requested Turnaround Time:

☐ RUSH _____ Date Needed ☑ STD

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White - Retained by Lab
Pink - Retained by Client

SGS North America Inc.

Sample Receipt Checklist (SRC)

Client: **Solutions-IES** Work Order No.: **31203610**

1. ___ Shipped
   X Hand Delivered

2. X COC Present on Receipt
   ___ No COC
   ___ Additional Transmittal Forms

3. ___ Custody Tape on Container
   X No Custody Tape

4. X Samples Intact
   ___ Samples Broken / Leaking

5. X Chilled on Receipt Actual Temp.(s) in °C: 2.1, 2.0, 2.2, 3.3
   ___ Ambient on Receipt
   ___ Walk-in on Ice; Coming down to temp.
   ___ Received Outside of Temperature Specifications

6. X Sufficient Sample Submitted
   ___ Insufficient Sample Submitted

7. ___ Chlorine absent
   ___ HNO3 < 2
   ___ HCL < 2
   ___ Additional Preservatives verified (see notes)

8. X Received Within Holding Time
   ___ Not Received Within Holding Time

9. X No Discrepancies Noted
   ___ Discrepancies Noted
   ___ NCDENR notified of Discrepancies*

10. ___ No Headspace present in VOC vials
    ___ Headspace present in VOC vials >6mm

Notes:

Comments:

Inspected and Logged in by: JJ

Date: Mon-11/5/12 00:00

*NCDENR must be notified when collection, holding time or preservation requirements are not met. MI_11.6

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SC Certification No. 99012
NC Drinking Water Cert No. 37735
VA Certification No. 1287
DoD ELAP Certification No. L2307

Case Narrative

02/13/2013

Solutions-IES, Inc.
Jody Overmyer
1101 Nowell Road
Raleigh, NC 27607

Project: Eaton Selma

Lab Submittal Date: 02/01/2013
Prism Work Order: 3020038

This data package contains the analytical results for the project identified above and includes a Case Narrative, Sample Results and Chain of Custody. Unless otherwise noted, all samples were received in acceptable condition and processed according to the referenced methods.

Data qualifiers are flagged individually on each sample. A key reference for the data qualifiers appears at the end of this case narrative.

Please call if you have any questions relating to this analytical report.

Respectfully,

PRISM LABORATORIES, INC.

VP Laboratory Services

Peggy F Kendall

Reviewed By

Data Qualifiers Key Reference:

J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
BRL	Below Reporting Limit
MDL	Method Detection Limit
RPD	Relative Percent Difference
*	Results reported to the reporting limit. All other results are reported to the MDL with values between MDL and reporting limit indicated with a J.

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Sample Receipt Summary

02/13/2013

Prism Work Order: 3020038

Client Sample ID	Lab Sample ID	Matrix	Date Sampled	Date Received
MW-4	3020038-01	Water	01/31/13	02/01/13
MW-8	3020038-02	Water	01/31/13	02/01/13

Samples received in good condition at 3.7 degrees C unless otherwise noted.

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Summary of Detections

02/13/2013

Prism Work Order: 3020038

Prism ID	Client ID	Parameter	Method	Result		Units
3020038-01	MW-4	1,1,1-Trichloroethane	8260B	14000		ug/L
3020038-01	MW-4	1,1-Dichloroethylene	8260B	4500		ug/L
3020038-01	MW-4	m,p-Xylenes	8260B	380	J	ug/L
3020038-01	MW-4	Tetrachloroethylene	8260B	37000		ug/L
3020038-01	MW-4	Trichloroethylene	8260B	4200		ug/L
3020038-02	MW-8	1,1,1-Trichloroethane	8260B	200		ug/L
3020038-02	MW-8	1,1-Dichloroethylene	8260B	400		ug/L
3020038-02	MW-8	Tetrachloroethylene	8260B	2100		ug/L
3020038-02	MW-8	Trichloroethylene	8260B	150		ug/L

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Laboratory Report

02/13/2013

Solutions-IES, Inc.
Attn: Jody Overmyer
1101 Nowell Road
Raleigh, NC 27607

Project: Eaton Selma

Sample Matrix: Water

Client Sample ID: MW-4
Prism Sample ID: 3020038-01
Prism Work Order: 3020038
Time Collected: 01/31/13 12:45
Time Submitted: 02/01/13 17:05

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/L	250	74	500	8260B	2/7/13 18:23	VHL	P3B0137
1,1,1-Trichloroethane	**14000**	**ug/L**	**250**	**31**	**500**	**8260B**	**2/7/13 18:23**	**VHL**	**P3B0137**
1,1,2,2-Tetrachloroethane	BRL	ug/L	250	36	500	8260B	2/7/13 18:23	VHL	P3B0137
1,1,2-Trichloroethane	BRL	ug/L	250	83	500	8260B	2/7/13 18:23	VHL	P3B0137
1,1-Dichloroethane	BRL	ug/L	250	48	500	8260B	2/7/13 18:23	VHL	P3B0137
1,1-Dichloroethylene	**4500**	**ug/L**	**250**	**39**	**500**	**8260B**	**2/7/13 18:23**	**VHL**	**P3B0137**
1,1-Dichloropropylene	BRL	ug/L	250	31	500	8260B	2/7/13 18:23	VHL	P3B0137
1,2,3-Trichlorobenzene	BRL	ug/L	1000	100	500	8260B	2/7/13 18:23	VHL	P3B0137
1,2,3-Trichloropropane	BRL	ug/L	500	41	500	8260B	2/7/13 18:23	VHL	P3B0137
1,2,4-Trichlorobenzene	BRL	ug/L	500	51	500	8260B	2/7/13 18:23	VHL	P3B0137
1,2,4-Trimethylbenzene	BRL	ug/L	250	24	500	8260B	2/7/13 18:23	VHL	P3B0137
1,2-Dibromo-3-chloropropane	BRL	ug/L	1000	300	500	8260B	2/7/13 18:23	VHL	P3B0137
1,2-Dibromoethane	BRL	ug/L	250	68	500	8260B	2/7/13 18:23	VHL	P3B0137
1,2-Dichlorobenzene	BRL	ug/L	250	38	500	8260B	2/7/13 18:23	VHL	P3B0137
1,2-Dichloroethane	BRL	ug/L	250	70	500	8260B	2/7/13 18:23	VHL	P3B0137
1,2-Dichloropropane	BRL	ug/L	250	64	500	8260B	2/7/13 18:23	VHL	P3B0137
1,3,5-Trimethylbenzene	BRL	ug/L	250	28	500	8260B	2/7/13 18:23	VHL	P3B0137
1,3-Dichlorobenzene	BRL	ug/L	250	37	500	8260B	2/7/13 18:23	VHL	P3B0137
1,3-Dichloropropane	BRL	ug/L	250	56	500	8260B	2/7/13 18:23	VHL	P3B0137
1,4-Dichlorobenzene	BRL	ug/L	250	34	500	8260B	2/7/13 18:23	VHL	P3B0137
2,2-Dichloropropane	BRL	ug/L	1000	57	500	8260B	2/7/13 18:23	VHL	P3B0137
2-Chloroethyl Vinyl Ether	BRL	ug/L	1000	110	500	8260B	2/7/13 18:23	VHL	P3B0137
2-Chlorotoluene	BRL	ug/L	250	19	500	8260B	2/7/13 18:23	VHL	P3B0137
4-Chlorotoluene	BRL	ug/L	250	26	500	8260B	2/7/13 18:23	VHL	P3B0137
4-Isopropyltoluene	BRL	ug/L	250	33	500	8260B	2/7/13 18:23	VHL	P3B0137
Acetone	BRL	ug/L	2500	310	500	8260B	2/7/13 18:23	VHL	P3B0137
Acrolein	BRL	ug/L	10000	550	500	8260B	2/7/13 18:23	VHL	P3B0137
Acrylonitrile	BRL	ug/L	10000	430	500	8260B	2/7/13 18:23	VHL	P3B0137
Benzene	BRL	ug/L	250	36	500	8260B	2/7/13 18:23	VHL	P3B0137
Bromobenzene	BRL	ug/L	250	32	500	8260B	2/7/13 18:23	VHL	P3B0137
Bromochloromethane	BRL	ug/L	250	63	500	8260B	2/7/13 18:23	VHL	P3B0137
Bromodichloromethane	BRL	ug/L	250	31	500	8260B	2/7/13 18:23	VHL	P3B0137
Bromoform	BRL	ug/L	500	140	500	8260B	2/7/13 18:23	VHL	P3B0137
Bromomethane	BRL	ug/L	500	230	500	8260B	2/7/13 18:23	VHL	P3B0137
Carbon disulfide	BRL	ug/L	2500	690	500	8260B	2/7/13 18:23	VHL	P3B0137
Carbon Tetrachloride	BRL	ug/L	250	59	500	8260B	2/7/13 18:23	VHL	P3B0137
Chlorobenzene	BRL	ug/L	250	31	500	8260B	2/7/13 18:23	VHL	P3B0137
Chloroethane	BRL	ug/L	250	64	500	8260B	2/7/13 18:23	VHL	P3B0137
Chloroform	BRL	ug/L	250	44	500	8260B	2/7/13 18:23	VHL	P3B0137
Chloromethane	BRL	ug/L	250	56	500	8260B	2/7/13 18:23	VHL	P3B0137
cis-1,2-Dichloroethylene	BRL	ug/L	250	38	500	8260B	2/7/13 18:23	VHL	P3B0137
cis-1,3-Dichloropropylene	BRL	ug/L	250	52	500	8260B	2/7/13 18:23	VHL	P3B0137

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Solutions-IES, Inc.
Attn: Jody Overmyer
1101 Nowell Road
Raleigh, NC 27607

Project: Eaton Selma

Sample Matrix: Water

Client Sample ID: MW-4
Prism Sample ID: 3020038-01
Prism Work Order: 3020038
Time Collected: 01/31/13 12:45
Time Submitted: 02/01/13 17:05

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Dibromochloromethane	BRL	ug/L	250	150	500	8260B	2/7/13 18:23	VHL	P3B0137
Dibromomethane	BRL	ug/L	250	65	500	8260B	2/7/13 18:23	VHL	P3B0137
Dichlorodifluoromethane	BRL	ug/L	500	54	500	8260B	2/7/13 18:23	VHL	P3B0137
Ethylbenzene	BRL	ug/L	250	34	500	8260B	2/7/13 18:23	VHL	P3B0137
Hexachlorobutadiene	BRL	ug/L	1000	180	500	8260B	2/7/13 18:23	VHL	P3B0137
Isopropyl Ether	BRL	ug/L	250	22	500	8260B	2/7/13 18:23	VHL	P3B0137
Isopropylbenzene (Cumene)	BRL	ug/L	250	36	500	8260B	2/7/13 18:23	VHL	P3B0137
m,p-Xylenes	**380 J**	**ug/L**	**500**	**40**	**500**	**8260B**	**2/7/13 18:23**	**VHL**	**P3B0137**
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	2500	94	500	8260B	2/7/13 18:23	VHL	P3B0137
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	2500	450	500	8260B	2/7/13 18:23	VHL	P3B0137
Methyl Isobutyl Ketone	BRL	ug/L	2500	62	500	8260B	2/7/13 18:23	VHL	P3B0137
Methylene Chloride	BRL	ug/L	500	220	500	8260B	2/7/13 18:23	VHL	P3B0137
Methyl-tert-Butyl Ether	BRL	ug/L	250	35	500	8260B	2/7/13 18:23	VHL	P3B0137
Naphthalene	BRL	ug/L	500	49	500	8260B	2/7/13 18:23	VHL	P3B0137
n-Butylbenzene	BRL	ug/L	500	56	500	8260B	2/7/13 18:23	VHL	P3B0137
n-Propylbenzene	BRL	ug/L	250	30	500	8260B	2/7/13 18:23	VHL	P3B0137
o-Xylene	BRL	ug/L	250	23	500	8260B	2/7/13 18:23	VHL	P3B0137
sec-Butylbenzene	BRL	ug/L	250	43	500	8260B	2/7/13 18:23	VHL	P3B0137
Styrene	BRL	ug/L	250	24	500	8260B	2/7/13 18:23	VHL	P3B0137
tert-Butylbenzene	BRL	ug/L	250	40	500	8260B	2/7/13 18:23	VHL	P3B0137
Tetrachloroethylene	**37000**	**ug/L**	**250**	**34**	**500**	**8260B**	**2/7/13 18:23**	**VHL**	**P3B0137**
Toluene	BRL	ug/L	250	21	500	8260B	2/7/13 18:23	VHL	P3B0137
trans-1,2-Dichloroethylene	BRL	ug/L	250	58	500	8260B	2/7/13 18:23	VHL	P3B0137
trans-1,3-Dichloropropylene	BRL	ug/L	250	22	500	8260B	2/7/13 18:23	VHL	P3B0137
Trichloroethylene	**4200**	**ug/L**	**250**	**27**	**500**	**8260B**	**2/7/13 18:23**	**VHL**	**P3B0137**
Trichlorofluoromethane	BRL	ug/L	250	44	500	8260B	2/7/13 18:23	VHL	P3B0137
Vinyl acetate	BRL	ug/L	1000	50	500	8260B	2/7/13 18:23	VHL	P3B0137
Vinyl chloride	BRL	ug/L	250	78	500	8260B	2/7/13 18:23	VHL	P3B0137

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*112 %*	*80-124*
Dibromofluoromethane	*104 %*	*75-129*
Toluene-d8	*104 %*	*77-123*

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Solutions-IES, Inc.
Attn: Jody Overmyer
1101 Nowell Road
Raleigh, NC 27607

Project: Eaton Selma

Sample Matrix: Water

Client Sample ID: MW-8
Prism Sample ID: 3020038-02
Prism Work Order: 3020038
Time Collected: 01/31/13 12:00
Time Submitted: 02/01/13 17:05

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/L	10	2.9	20	8260B	2/7/13 18:48	VHL	P3B0137
1,1,1-Trichloroethane	**200**	**ug/L**	**10**	**1.3**	**20**	**8260B**	**2/7/13 18:48**	**VHL**	**P3B0137**
1,1,2,2-Tetrachloroethane	BRL	ug/L	10	1.4	20	8260B	2/7/13 18:48	VHL	P3B0137
1,1,2-Trichloroethane	BRL	ug/L	10	3.3	20	8260B	2/7/13 18:48	VHL	P3B0137
1,1-Dichloroethane	BRL	ug/L	10	1.9	20	8260B	2/7/13 18:48	VHL	P3B0137
1,1-Dichloroethylene	**400**	**ug/L**	**10**	**1.6**	**20**	**8260B**	**2/7/13 18:48**	**VHL**	**P3B0137**
1,1-Dichloropropylene	BRL	ug/L	10	1.2	20	8260B	2/7/13 18:48	VHL	P3B0137
1,2,3-Trichlorobenzene	BRL	ug/L	40	4.0	20	8260B	2/7/13 18:48	VHL	P3B0137
1,2,3-Trichloropropane	BRL	ug/L	20	1.6	20	8260B	2/7/13 18:48	VHL	P3B0137
1,2,4-Trichlorobenzene	BRL	ug/L	20	2.0	20	8260B	2/7/13 18:48	VHL	P3B0137
1,2,4-Trimethylbenzene	BRL	ug/L	10	0.95	20	8260B	2/7/13 18:48	VHL	P3B0137
1,2-Dibromo-3-chloropropane	BRL	ug/L	40	12	20	8260B	2/7/13 18:48	VHL	P3B0137
1,2-Dibromoethane	BRL	ug/L	10	2.7	20	8260B	2/7/13 18:48	VHL	P3B0137
1,2-Dichlorobenzene	BRL	ug/L	10	1.5	20	8260B	2/7/13 18:48	VHL	P3B0137
1,2-Dichloroethane	BRL	ug/L	10	2.8	20	8260B	2/7/13 18:48	VHL	P3B0137
1,2-Dichloropropane	BRL	ug/L	10	2.5	20	8260B	2/7/13 18:48	VHL	P3B0137
1,3,5-Trimethylbenzene	BRL	ug/L	10	1.1	20	8260B	2/7/13 18:48	VHL	P3B0137
1,3-Dichlorobenzene	BRL	ug/L	10	1.5	20	8260B	2/7/13 18:48	VHL	P3B0137
1,3-Dichloropropane	BRL	ug/L	10	2.2	20	8260B	2/7/13 18:48	VHL	P3B0137
1,4-Dichlorobenzene	BRL	ug/L	10	1.4	20	8260B	2/7/13 18:48	VHL	P3B0137
2,2-Dichloropropane	BRL	ug/L	40	2.3	20	8260B	2/7/13 18:48	VHL	P3B0137
2-Chloroethyl Vinyl Ether	BRL	ug/L	40	4.5	20	8260B	2/7/13 18:48	VHL	P3B0137
2-Chlorotoluene	BRL	ug/L	10	0.76	20	8260B	2/7/13 18:48	VHL	P3B0137
4-Chlorotoluene	BRL	ug/L	10	1.1	20	8260B	2/7/13 18:48	VHL	P3B0137
4-Isopropyltoluene	BRL	ug/L	10	1.3	20	8260B	2/7/13 18:48	VHL	P3B0137
Acetone	BRL	ug/L	100	12	20	8260B	2/7/13 18:48	VHL	P3B0137
Acrolein	BRL	ug/L	400	22	20	8260B	2/7/13 18:48	VHL	P3B0137
Acrylonitrile	BRL	ug/L	400	17	20	8260B	2/7/13 18:48	VHL	P3B0137
Benzene	BRL	ug/L	10	1.4	20	8260B	2/7/13 18:48	VHL	P3B0137
Bromobenzene	BRL	ug/L	10	1.3	20	8260B	2/7/13 18:48	VHL	P3B0137
Bromochloromethane	BRL	ug/L	10	2.5	20	8260B	2/7/13 18:48	VHL	P3B0137
Bromodichloromethane	BRL	ug/L	10	1.2	20	8260B	2/7/13 18:48	VHL	P3B0137
Bromoform	BRL	ug/L	20	5.4	20	8260B	2/7/13 18:48	VHL	P3B0137
Bromomethane	BRL	ug/L	20	9.3	20	8260B	2/7/13 18:48	VHL	P3B0137
Carbon disulfide	BRL	ug/L	100	28	20	8260B	2/7/13 18:48	VHL	P3B0137
Carbon Tetrachloride	BRL	ug/L	10	2.4	20	8260B	2/7/13 18:48	VHL	P3B0137
Chlorobenzene	BRL	ug/L	10	1.2	20	8260B	2/7/13 18:48	VHL	P3B0137
Chloroethane	BRL	ug/L	10	2.6	20	8260B	2/7/13 18:48	VHL	P3B0137
Chloroform	BRL	ug/L	10	1.8	20	8260B	2/7/13 18:48	VHL	P3B0137
Chloromethane	BRL	ug/L	10	2.2	20	8260B	2/7/13 18:48	VHL	P3B0137
cis-1,2-Dichloroethylene	BRL	ug/L	10	1.5	20	8260B	2/7/13 18:48	VHL	P3B0137
cis-1,3-Dichloropropylene	BRL	ug/L	10	2.1	20	8260B	2/7/13 18:48	VHL	P3B0137

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Solutions-IES, Inc.
Attn: Jody Overmyer
1101 Nowell Road
Raleigh, NC 27607

Project: Eaton Selma

Sample Matrix: Water

Client Sample ID: MW-8
Prism Sample ID: 3020038-02
Prism Work Order: 3020038
Time Collected: 01/31/13 12:00
Time Submitted: 02/01/13 17:05

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Dibromochloromethane	BRL	ug/L	10	6.0	20	8260B	2/7/13 18:48	VHL	P3B0137
Dibromomethane	BRL	ug/L	10	2.6	20	8260B	2/7/13 18:48	VHL	P3B0137
Dichlorodifluoromethane	BRL	ug/L	20	2.1	20	8260B	2/7/13 18:48	VHL	P3B0137
Ethylbenzene	BRL	ug/L	10	1.3	20	8260B	2/7/13 18:48	VHL	P3B0137
Hexachlorobutadiene	BRL	ug/L	40	7.3	20	8260B	2/7/13 18:48	VHL	P3B0137
Isopropyl Ether	BRL	ug/L	10	0.87	20	8260B	2/7/13 18:48	VHL	P3B0137
Isopropylbenzene (Cumene)	BRL	ug/L	10	1.4	20	8260B	2/7/13 18:48	VHL	P3B0137
m,p-Xylenes	BRL	ug/L	20	1.6	20	8260B	2/7/13 18:48	VHL	P3B0137
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	100	3.8	20	8260B	2/7/13 18:48	VHL	P3B0137
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	100	18	20	8260B	2/7/13 18:48	VHL	P3B0137
Methyl Isobutyl Ketone	BRL	ug/L	100	2.5	20	8260B	2/7/13 18:48	VHL	P3B0137
Methylene Chloride	BRL	ug/L	20	8.9	20	8260B	2/7/13 18:48	VHL	P3B0137
Methyl-tert-Butyl Ether	BRL	ug/L	10	1.4	20	8260B	2/7/13 18:48	VHL	P3B0137
Naphthalene	BRL	ug/L	20	2.0	20	8260B	2/7/13 18:48	VHL	P3B0137
n-Butylbenzene	BRL	ug/L	20	2.3	20	8260B	2/7/13 18:48	VHL	P3B0137
n-Propylbenzene	BRL	ug/L	10	1.2	20	8260B	2/7/13 18:48	VHL	P3B0137
o-Xylene	BRL	ug/L	10	0.92	20	8260B	2/7/13 18:48	VHL	P3B0137
sec-Butylbenzene	BRL	ug/L	10	1.7	20	8260B	2/7/13 18:48	VHL	P3B0137
Styrene	BRL	ug/L	10	0.94	20	8260B	2/7/13 18:48	VHL	P3B0137
tert-Butylbenzene	BRL	ug/L	10	1.6	20	8260B	2/7/13 18:48	VHL	P3B0137
Tetrachloroethylene	**2100**	**ug/L**	**10**	**1.4**	**20**	**8260B**	**2/7/13 18:48**	**VHL**	**P3B0137**
Toluene	BRL	ug/L	10	0.85	20	8260B	2/7/13 18:48	VHL	P3B0137
trans-1,2-Dichloroethylene	BRL	ug/L	10	2.3	20	8260B	2/7/13 18:48	VHL	P3B0137
trans-1,3-Dichloropropylene	BRL	ug/L	10	0.87	20	8260B	2/7/13 18:48	VHL	P3B0137
Trichloroethylene	**150**	**ug/L**	**10**	**1.1**	**20**	**8260B**	**2/7/13 18:48**	**VHL**	**P3B0137**
Trichlorofluoromethane	BRL	ug/L	10	1.8	20	8260B	2/7/13 18:48	VHL	P3B0137
Vinyl acetate	BRL	ug/L	40	2.0	20	8260B	2/7/13 18:48	VHL	P3B0137
Vinyl chloride	BRL	ug/L	10	3.1	20	8260B	2/7/13 18:48	VHL	P3B0137

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*111 %*	*80-124*
Dibromofluoromethane	*102 %*	*75-129*
Toluene-d8	*103 %*	*77-123*

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Solutions-IES, Inc.
Attn: Jody Overmyer
1101 Nowell Road
Raleigh, NC 27607

Project: Eaton Selma

Prism Work Order: 3020038
Time Submitted: 2/1/2013 5:05:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3B0137 - 5030B										
Blank (P3B0137-BLK1)				Prepared & Analyzed: 02/07/13						
1,1,1,2-Tetrachloroethane	BRL	0.50	ug/L							
1,1,1-Trichloroethane	BRL	0.50	ug/L							
1,1,2,2-Tetrachloroethane	BRL	0.50	ug/L							
1,1,2-Trichloroethane	BRL	0.50	ug/L							
1,1-Dichloroethane	BRL	0.50	ug/L							
1,1-Dichloroethylene	BRL	0.50	ug/L							
1,1-Dichloropropylene	BRL	0.50	ug/L							
1,2,3-Trichlorobenzene	BRL	2.0	ug/L							
1,2,3-Trichloropropane	BRL	1.0	ug/L							
1,2,4-Trichlorobenzene	BRL	1.0	ug/L							
1,2,4-Trimethylbenzene	BRL	0.50	ug/L							
1,2-Dibromo-3-chloropropane	BRL	2.0	ug/L							
1,2-Dibromoethane	BRL	0.50	ug/L							
1,2-Dichlorobenzene	BRL	0.50	ug/L							
1,2-Dichloroethane	BRL	0.50	ug/L							
1,2-Dichloropropane	BRL	0.50	ug/L							
1,3,5-Trimethylbenzene	BRL	0.50	ug/L							
1,3-Dichlorobenzene	BRL	0.50	ug/L							
1,3-Dichloropropane	BRL	0.50	ug/L							
1,4-Dichlorobenzene	BRL	0.50	ug/L							
2,2-Dichloropropane	BRL	2.0	ug/L							
2-Chloroethyl Vinyl Ether	BRL	2.0	ug/L							
2-Chlorotoluene	BRL	0.50	ug/L							
4-Chlorotoluene	BRL	0.50	ug/L							
4-Isopropyltoluene	BRL	0.50	ug/L							
Acetone	BRL	5.0	ug/L							
Acrolein	BRL	20	ug/L							
Acrylonitrile	BRL	20	ug/L							
Benzene	BRL	0.50	ug/L							
Bromobenzene	BRL	0.50	ug/L							
Bromochloromethane	BRL	0.50	ug/L							
Bromodichloromethane	BRL	0.50	ug/L							
Bromoform	BRL	1.0	ug/L							
Bromomethane	BRL	1.0	ug/L							
Carbon disulfide	BRL	5.0	ug/L							
Carbon Tetrachloride	BRL	0.50	ug/L							
Chlorobenzene	BRL	0.50	ug/L							
Chloroethane	BRL	0.50	ug/L							
Chloroform	BRL	0.50	ug/L							
Chloromethane	BRL	0.50	ug/L							
cis-1,2-Dichloroethylene	BRL	0.50	ug/L							
cis-1,3-Dichloropropylene	BRL	0.50	ug/L							
Dibromochloromethane	BRL	0.50	ug/L							
Dibromomethane	BRL	0.50	ug/L							
Dichlorodifluoromethane	BRL	1.0	ug/L							
Ethylbenzene	BRL	0.50	ug/L							

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Solutions-IES, Inc.
Attn: Jody Overmyer
1101 Nowell Road
Raleigh, NC 27607

Project: Eaton Selma

Prism Work Order: 3020038
Time Submitted: 2/1/2013 5:05:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3B0137 - 5030B										
Blank (P3B0137-BLK1)				Prepared & Analyzed: 02/07/13						
Hexachlorobutadiene	BRL	2.0	ug/L							
Isopropyl Ether	BRL	0.50	ug/L							
Isopropylbenzene (Cumene)	BRL	0.50	ug/L							
m,p-Xylenes	BRL	1.0	ug/L							
Methyl Butyl Ketone (2-Hexanone)	BRL	5.0	ug/L							
Methyl Ethyl Ketone (2-Butanone)	BRL	5.0	ug/L							
Methyl Isobutyl Ketone	BRL	5.0	ug/L							
Methylene Chloride	BRL	1.0	ug/L							
Methyl-tert-Butyl Ether	BRL	0.50	ug/L							
Naphthalene	BRL	1.0	ug/L							
n-Butylbenzene	BRL	1.0	ug/L							
n-Propylbenzene	BRL	0.50	ug/L							
o-Xylene	BRL	0.50	ug/L							
sec-Butylbenzene	BRL	0.50	ug/L							
Styrene	BRL	0.50	ug/L							
tert-Butylbenzene	BRL	0.50	ug/L							
Tetrachloroethylene	BRL	0.50	ug/L							
Toluene	BRL	0.50	ug/L							
trans-1,2-Dichloroethylene	BRL	0.50	ug/L							
trans-1,3-Dichloropropylene	BRL	0.50	ug/L							
Trichloroethylene	BRL	0.50	ug/L							
Trichlorofluoromethane	BRL	0.50	ug/L							
Vinyl acetate	BRL	2.0	ug/L							
Vinyl chloride	BRL	0.50	ug/L							
Surrogate: 4-Bromofluorobenzene	*56.2*		*ug/L*	*50.00*		*112*	*80-124*			
Surrogate: Dibromofluoromethane	*51.6*		*ug/L*	*50.00*		*103*	*75-129*			
Surrogate: Toluene-d8	*51.9*		*ug/L*	*50.00*		*104*	*77-123*			

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Solutions-IES, Inc.
Attn: Jody Overmyer
1101 Nowell Road
Raleigh, NC 27607

Project: Eaton Selma

Prism Work Order: 3020038
Time Submitted: 2/1/2013 5:05:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3B0137 - 5030B										
LCS (P3B0137-BS1)				Prepared & Analyzed: 02/07/13						
1,1-Dichloroethylene	22.3	0.50	ug/L	20.00		112	70-154			
Benzene	19.8	0.50	ug/L	20.00		99	77-128			
Chlorobenzene	19.9	0.50	ug/L	20.00		100	78-119			
Toluene	20.0	0.50	ug/L	20.00		100	76-131			
Trichloroethylene	18.0	0.50	ug/L	20.00		90	77-133			
Surrogate: 4-Bromofluorobenzene	*53.9*		*ug/L*	*50.00*		*108*	*80-124*			
Surrogate: Dibromofluoromethane	*51.1*		*ug/L*	*50.00*		*102*	*75-129*			
Surrogate: Toluene-d8	*51.4*		*ug/L*	*50.00*		*103*	*77-123*			
LCS Dup (P3B0137-BSD1)				Prepared & Analyzed: 02/07/13						
1,1-Dichloroethylene	23.5	0.50	ug/L	20.00		118	70-154	5	20	
Benzene	21.2	0.50	ug/L	20.00		106	77-128	7	20	
Chlorobenzene	21.0	0.50	ug/L	20.00		105	78-119	5	20	
Toluene	21.5	0.50	ug/L	20.00		108	76-131	7	20	
Trichloroethylene	19.6	0.50	ug/L	20.00		98	77-133	8	20	
Surrogate: 4-Bromofluorobenzene	*53.6*		*ug/L*	*50.00*		*107*	*80-124*			
Surrogate: Dibromofluoromethane	*50.4*		*ug/L*	*50.00*		*101*	*75-129*			
Surrogate: Toluene-d8	*51.2*		*ug/L*	*50.00*		*102*	*77-123*			

Sample Extraction Data

Prep Method: 5030B

Lab Number	Batch	Initial	Final	Date/Time
3020038-01	P3B0137	10 mL	10 mL	02/07/13 7:25
3020038-02	P3B0137	10 mL	10 mL	02/07/13 7:25

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PRISM LABORATORIES, INC.
Full-Service Analytical & Environmental Solutions
449 Springbrook Road • P.O. Box 240543 • Charlotte, NC 28224-0543
Phone: 704/529-6364 • Fax: 704/525-0409

CHAIN OF CUSTODY RECORD

PAGE 1 OF 1 QUOTE # TO ENSURE PROPER BILLING:

Client Company Name: Solutions-IES
Report To/Contact Name: Jody Overmyer
Reporting Address: 1101 Nowell Rd
Raleigh NC, 27607
Phone: 919-833-1060 Fax (Yes) (No):
Email (Yes) (No) Email Address jovermyer@solutionsies.com
EDD Type: PDF___ Excel___ Other
Site Location Name: Eaton Selma
Site Location Physical Address:

Project Name: Eaton Selma
Short Hold Analysis: (Yes) (No) UST Project: (Yes) (No)
*Please ATTACH any project specific reporting (QC LEVEL I II III IV) provisions and/or QC Requirements
Invoice To: Emily Davis
Address:

Purchase Order No./Billing Reference
Requested Due Date ☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 4 Days ☐ 5 Days
"Working Days" ☐ 6-9 Days ☒ Standard 10 days ☐ Rush Work Must Be Pre-Approved
Samples received after 15:00 will be processed next business day.
Turnaround time is based on business days, excluding weekends and holidays.
(SEE REVERSE FOR TERMS & CONDITIONS REGARDING SERVICES RENDERED BY PRISM LABORATORIES, INC. TO CLIENT)

LAB USE ONLY

	YES	NO	N/A
Samples INTACT upon arrival?	✓		
Received ON WET ICE? Temp 3.7°	✓		
PROPER PRESERVATIVES indicated?	✓		
Received WITHIN HOLDING TIMES?	✓		
CUSTODY SEALS INTACT?			✓
VOLATILES rec'd W/OUT HEADSPACE?	✓		
PROPER CONTAINERS used?	✓		

TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL
Certification: NELAC___ USACE___ FL___ NC ✓
SC___ OTHER___ N/A___
Water Chlorinated: YES___ NO___
Sample Iced Upon Collection: YES___ NO___

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER OR SLUDGE)	SAMPLE CONTAINER *TYPE SEE BELOW	NO.	SIZE	PRESERVATIVES	VOCs 8260B						REMARKS	PRISM LAB ID NO.
MW-4	1/31/2013	1245	GW	40mL VOA			HCl, None	X							01
MW-8	1/31/2013	1200	GW	"			"	X							02

Sampler's Signature: [signature] Sampled By (Print Name): Samuel McIntyre Affiliation: Solutions-IES

PRESS DOWN FIRMLY - 3 COPIES

Upon relinquishing, this Chain of Custody is your authorization for Prism to proceed with the analyses as requested above. Any changes must be submitted in writing to the Prism Project Manager. There will be charges for any changes after analyses have been initialized.

Relinquished By: (Signature)	Received By: (Signature)	Date	Military/Hours
[signature]	[signature]	2/1/13	13:23
[signature]	[signature]	2/1/13	13:35
[signature]	Received For Prism Laboratories By: [signature]	2/1/13	17:05

Method of Shipment: NOTE: ALL SAMPLE COOLERS SHOULD BE TAPED SHUT WITH CUSTODY SEALS FOR TRANSPORTATION TO THE LABORATORY. SAMPLES ARE NOT ACCEPTED AND VERIFIED AGAINST COC UNTIL RECEIVED AT THE LABORATORY.
☐ Fed Ex ☐ UPS ☐ Hand-delivered ☒ Prism Field Service ☐ Other

COC Group No. 3020038

Additional Comments:

PRISM USE ONLY
Site Arrival Time:
Site Departure Time:
Field Tech Fee:
Mileage:

NPDES:	UST:	GROUNDWATER:	DRINKING WATER:	SOLID WASTE:	RCRA:	CERCLA	LANDFILL	OTHER:
☐ NC ☐ SC	☐ NC ☐ SC	☒ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC

*CONTAINER TYPE CODES: A = Amber C = Clear G = Glass P = Plastic; TL = Teflon-Lined Cap VOA = Volatile Organics Analysis (Zero Head Space)

SEE REVERSE FOR TERMS & CONDITIONS

ORIGINAL

APPENDIX D

OCTOBER 2012 PDI FIELD NOTES

J. Jarvel

PDI 2012.0009 Eaton Selma 40° - cloud

815	Depart office
9:05	Arrive on-site. Sign HASP.
9:30	Located SW + SS Lines. Begin to mark out estimated boring locations + trenches for KEI.
935	Roto Rooter on-site. Does not have proper size camera for SW.
	Some roots noticed at 10' seams + seepage noted at 2 locations so far. Stained seepage noted at top crown of seams w/ no roots
10:30	Convey on-site w/ Aqua-Buff
	≈ 86' toward road from mw-8 the sanitary sewer is under water + backed up to cross road. Could not see anything - No grade
11:35	Roto rooter off-site

10/30/12 0009 Drizzle

1140 EVO on-site. Discuss positions of roll-off Boxes + Excavator

1220 KCI - on-site

1250 EVO off-site

1300 KCI - off-site

1310 Spigot Located near mw-9, left message

Open all wells for gauging

ID	DTW (TOC)	ID	DTW-(TOC)
mw-1	10.18	DP-1	2.95
mw-2	9.21	DP-2	2.82
mw-3	9.20	DP-3	2.94
mw-4	9.48	PZ-2A	10.62
mw-5	8.75	PZ-2B	Dry at 5.50
mw-6	11.85	PZ-3	Dry at 7.90
mw-7	12.53		
mw-8	8.99		
mw-9	10.72		
mw-11	8.45		
mw-14	9.22		
mw-15	9.47		

10/30/12 0009

1435 Calibrate meter + set up on mw-8

1510 Sampled mw-8 - Low in VOC

1545 Sampled mw-4 - 3260 Low Low VOC

1555 Labeled H_2O - IDW dam + staged next to soil dam - Labeled Soil - 4/27/12 - Pending ≈ 1/3 full

EVO
- East Roll-off BKRU026520 sub.
- West roll off - no ID - Blue
- Excavator 2000 LC

West utilities ≈ 6' apart

East utilities ≈ 10' apart

1600 J.O. Directed to dig in between 2 lines on N + S side

1605 off-site for day

1650 Arrive at office

S. JAMAL

10/31/12 0009 PDT 40° clear

6:45 Depart office

7:30 Arrive on-site. Begin bottle prep

7:45 EVO is running late. Should arrive at 8:30

820 Pick up ice for sample

835 EVO on-site. Explained work plan. One operator on-site. Fill truck w/ gravel is on its way. Paul = operator

9:00 Begin EAST trench, Fill gravel on-site William - EVO Track driver. Trench will be sloped for stability. Requested EVO to stay as narrow as possible to reduce amt of soil excavated

1000 Western MAW hole shows SS ≈ 4.5' to top of 8" Terracotta Line

1005 John called & left msg + will call me back regarding use. gave OK

1030 BACK-hoe on-site

10/31/12

11:00 will bring EAST trench to 8', will sample ≈ 7.5' bgs (under storm water) + on opposite side of trench ≈ 8' bgs

1140 Collected EAST Trench Bedding - SS ≈ 8' bgs - PID 1.0

1145 will transfer + overfill EAST Box (white) + even out with third box when it arrives later in project

EAST Trench ≈ 6.5' x 12 x 8

1200 Collected EAST Trench Bedding - SW PID - 0. ≈ 5.5' bgs - below storm drain at seam. moisture present

* bottom of storm drain ≈ 5' bgs sample collected 5.5' bgs

1215 SS Located 5' off marked line ≈ 5' off from storm drain pipe is broken. Pipe 7' bgs contacted. PM. Will dig near pipe to measure diameter for repair.

10-31-12

1245 Begin West Trench

1305 Contacted John McLamb & left message re broken sewer line

1310 Selmc Sewer on-site. Requested we put Caution tape around trench. They will be on-site tomorrow to repair Line.

1320 Top of Storm Drain 28" bgs bottom ≈ 48"

1335 Small Leak in excavation, coming from catch basin or pipe ≈ 4' 5" down bgs.

1345 Collect West Trench Bedding - SW ≈ 4.5' bgs below storm drain P.id = 0.0

1405 Collected West trench water - SW - Leak from Storm pipe, in center of trench ≈ 4.5' bgs. Seperate from Leak mentioned at 13:35

10-31-12

1410 1" gap between pipe joints is where water is coming from. Took photo

1415 Top of West SS is 58" bgs. Bottom ≈ 69" bgs.

1435 Collected West Trench bedding - SS ≈ 72" bgs from under SS line (DAMP) P.id = 11.7

West Trench is 5'x8'x8'

1445 Added 1 drum Aqua Bott to West Trench

H_2O Meter 9730 - START H_2O Stop at 10220 (5 gpm)

1500 Putting Stone for EAST trench on ground behind (North) of Trench so he can pick up Sand + Fill

1505 William off site (Vo) for fill PAUL off for Lunch - return 1510 William return at 15:50 w/ Fill

10/31/12 0009

1530 Collected IDW-Box 1 from EAST Box (white) BKRU026520

1600 Collected IDW-Box 2 from West Box - Blue

Both samples collected @ 3.5'-4.5' in center of Box. Silty clay.

Third coll-off will be from Box #1

1615 Collected IDW-Box 3 from soil to be moved to Box 3 from Box 1 @ 3.5' bgs. Mostly top 4'-silt material

1620 500 gal H_2O in West Trench

1700 Filled west trench w/ gravel + graded + continue to Back Fill West Trench

1730 Compacted West trench w/ mechanical Compactor + Back Fill (Top Soil) on-site

1800 Secured site. off site for day

11/1/12 2012 0009 Eaton Selma 45°-clear

6:30 Depart office w/ geoprobe

7:10 Arrive on-site. Sign HASP. Set up geoprobe on SB-40, west end of borings

7:30 off-site for Diesel fuel for geoprobe

755 re-set up on SB-40, Calibrate PID

820 City of Selma on-site. Will have to wait for Evo to move equipment. Evo in route w/ Back-Fill.

855 Evo on-site w/ Back Fill

950 SS in East trench repaired. City did test/Pressure test.

1000 Dumped Aqua Bift in East trench + Added 500 gal. START 1022 STOP 1027 + Added gravel

1230 Excavator off-site. Back Fill East Trench + Compact

11-1-12

Time Collected	Boring	interval	PID
8:30	SB-40	0-1	0.0
835		1-2	0.0
845		2-3	0.0
855		3-4	0.1
905		4-5	1.0
915		5-6	4.2
920		6-7	5.5
930		7-8	5.4
1035	SB-41	0-1	0
1045		1-2	0
1050		2-3	0
1055		3-4	0
11:00		4-5	0
11:05		5-6	1.6
11:15		6-7	3.6
11:20		7-8	21.6

11-1-12

Time Collect	Boring	interval	PID
1145	SB-42	0-1	0
1150		1-2	0
1200		2-3	0.1
1205		3-4	1.0
1215		4-5	617.0
1220		5-6	1677.0
1230		6-7	249.3
1235		7-8	108.4
1300	SB-43	0-1	0
1305		1-2	0
1315		2-3	0
1325		3-4	0
1335		4-5	23.2
1340		5-6	35.8
1350		6-7	85.3
1355		7-8	41.5

APPENDIX E

TRENCH RECORD

Solutions-IES
Industrial & Environmental Services

Page _____ of _____

TRENCH RECORD

Client	Eaton Corporation	Date	10-31-12
Project Name	Former Eaton Selma PDI	Project Number	2012.0009.EATN/4
Project Location	1100 East Preston Street, Selma	Weather Conditions	50° - clear
Time Trench Began	9:00	Time Trench Ended	1245

Depth (ft bgs)	EAST Trench Descirption	Sample Collected (Y/N) If Y, Include ID
0-1	Brown + gray sandy + silt ~~clay~~ some clay lots of small roots. Dry	
1-2'	Lt Brown sandy silt. Dry, some clay	
2-3'	Same as above. mostly Dry brown silt	
	Top of Storm Water drain ≈ 3.5' bgs.	
3-4'	Dry, gray + orange clayey silt	
4-6'	Dry, gray, orange + tan clayy silt. * No gravel * Intersected Storm Drain at Coupling	
6-7'	Same as Above, more clay	
7'-8'	Dry to Damp orange gray silty clay.	

Solutions-IES
Industrial & Environmental Services

Page _____ of _____

TRENCH RECORD

Client	Eaton Corporation	Date	10-31-12
Project Name	Former Eaton Selma PDI	Project Number	2012.0009.EATN/4
Project Location	1100 East Preston Street, Selma	Weather Conditions	50 - clear
Time Trench Began	1245	Time Trench Ended	1435

Depth (ft bgs)	West Trench Description	Sample Collected (Y/N) If Y, Include ID
0-1	Brown sandy silt. Top soil. Dry + roots	
2-4	Brown + orange clayey silt. Dry	
4-5	Same as above, more clay	
5-8'	Brown, orange + tan silty clay - Dry	
	Top of ~~Sewer~~ Storm Drain = 28" bgs	
	Bottom ≈ 4' (48")	Y at 4.5' bgs (53") below storm drain West Trench - SW
	moist soil around drain, small leak from catch basin	
	Leak in concrete drain pipe, center of trench, bottom of pipe. (1" gap between joint)	
	Top of SS is 58" bgs, bottom = 69"	
	Soil is moist near SS line	

APPENDIX F

FEBRUARY 2012 PDI ANALYTICAL LABOROATORY REPORT

NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert No. 37735
VA Certification No. 460211
DoD ELAP Certification No. L2307

Case Narrative

03/28/2013

Solutions-IES, Inc.
Tony Lieberman
1101 Nowell Road
Raleigh, NC 27607

Project: Eaton Selma

Lab Submittal Date: 03/01/2013
Prism Work Order: 3030011

This data package contains the analytical results for the project identified above and includes a Case Narrative, Sample Results and Chain of Custody. Unless otherwise noted, all samples were received in acceptable condition and processed according to the referenced methods.

Data qualifiers are flagged individually on each sample. A key reference for the data qualifiers appears at the end of this case narrative.

Please call if you have any questions relating to this analytical report.

Respectfully,

PRISM LABORATORIES, INC.

Angela D. Overcash
VP Laboratory Services

Reviewed By Steven H. Guptill For Angela D. Overcash
Project Manager

Data Qualifiers Key Reference:

A	Compound recovered low in CCV, but passed CCV criteria in the BS and BSD.
J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
M	Matrix spike outside of the control limits.
MI	Matrix spike outside of the control limits. Matrix interference suspected.
SR	Surrogate recovery outside the QC limits.
BRL	Below Reporting Limit
MDL	Method Detection Limit
RPD	Relative Percent Difference
*	Results reported to the reporting limit. All other results are reported to the MDL with values between MDL and reporting limit indicated with a J.

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Sample Receipt Summary

03/28/2013

Prism Work Order: 3030011

Client Sample ID	Lab Sample ID	Matrix	Date Sampled	Date Received
SB-47-CS-4-6	3030011-01	Solid	02/27/13	03/01/13
SB-47-CS-6-8	3030011-02	Solid	02/27/13	03/01/13
SB-47-CS-8-10	3030011-03	Solid	02/27/13	03/01/13
SB-47-SG-10-12	3030011-04	Solid	02/27/13	03/01/13
SB-47-SG-16-18	3030011-05	Solid	02/27/13	03/01/13
SB-47-SG-18-20	3030011-06	Solid	02/27/13	03/01/13
SB-48-CS-6-8	3030011-07	Solid	02/28/13	03/01/13
SB-48-CS-8-10	3030011-08	Solid	02/28/13	03/01/13
SB-48-CS-10-12	3030011-09	Solid	02/28/13	03/01/13
SB-48-SG-16-18	3030011-10	Solid	02/28/13	03/01/13
SB-48-SG-18-20	3030011-11	Solid	02/28/13	03/01/13
SB-48-SG-20-22	3030011-12	Solid	02/28/13	03/01/13
SB-49-10-12	3030011-13	Solid	02/27/13	03/01/13
SB-50-10-12	3030011-14	Solid	02/27/13	03/01/13

Samples received in good condition at degrees C unless otherwise noted.

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Summary of Detections

03/28/2013

Prism Work Order: 3030011

Prism ID	Client ID	Parameter	Method	Result		Units
3030011-01	SB-47-CS-4-6	pH	*9045D	4.0		pH Units
3030011-02	SB-47-CS-6-8	pH	*9045D	3.8		pH Units
3030011-03	SB-47-CS-8-10	pH	*9045D	3.6		pH Units
3030011-04	SB-47-SG-10-12	pH	*9045D	4.0		pH Units
3030011-05	SB-47-SG-16-18	pH	*9045D	4.4		pH Units
3030011-06	SB-47-SG-18-20	pH	*9045D	4.6		pH Units
3030011-07	SB-48-CS-6-8	pH	*9045D	3.4		pH Units
3030011-08	SB-48-CS-8-10	pH	*9045D	3.9		pH Units
3030011-09	SB-48-CS-10-12	pH	*9045D	3.8		pH Units
3030011-10	SB-48-SG-16-18	pH	*9045D	4.3		pH Units
3030011-11	SB-48-SG-18-20	pH	*9045D	4.7		pH Units
3030011-12	SB-48-SG-20-22	pH	*9045D	4.8		pH Units
3030011-13	SB-49-10-12	pH	*9045D	3.8		pH Units
3030011-13	SB-49-10-12	1,1,1-Trichloroethane	8260B	0.099		mg/kg dry
3030011-13	SB-49-10-12	1,1-Dichloroethane	8260B	0.0027	J	mg/kg dry
3030011-13	SB-49-10-12	1,1-Dichloroethylene	8260B	0.14		mg/kg dry
3030011-13	SB-49-10-12	cis-1,2-Dichloroethylene	8260B	0.0032	J	mg/kg dry
3030011-13	SB-49-10-12	Trichloroethylene	8260B	0.030		mg/kg dry
3030011-13	SB-49-10-12	Trichlorofluoromethane	8260B	0.0020	J	mg/kg dry
3030011-13	SB-49-10-12	Tetrachloroethylene	8260B	1.0		mg/kg dry
3030011-14	SB-50-10-12	pH	*9045D	3.5		pH Units
3030011-14	SB-50-10-12	1,1-Dichloroethane	8260B	0.016		mg/kg dry
3030011-14	SB-50-10-12	cis-1,2-Dichloroethylene	8260B	0.024		mg/kg dry
3030011-14	SB-50-10-12	Ethylbenzene	8260B	0.0061		mg/kg dry
3030011-14	SB-50-10-12	m,p-Xylenes	8260B	0.019		mg/kg dry
3030011-14	SB-50-10-12	o-Xylene	8260B	0.0049		mg/kg dry
3030011-14	SB-50-10-12	Toluene	8260B	0.0034	J	mg/kg dry
3030011-14	SB-50-10-12	Trichloroethylene	8260B	0.069		mg/kg dry
3030011-14	SB-50-10-12	Trichlorofluoromethane	8260B	0.0084		mg/kg dry
3030011-14	SB-50-10-12	Vinyl chloride	8260B	0.0035	J	mg/kg dry
3030011-14	SB-50-10-12	Xylenes, total	8260B	0.024		mg/kg dry
3030011-14	SB-50-10-12	1,1,1-Trichloroethane	8260B	0.54		mg/kg dry
3030011-14	SB-50-10-12	1,1-Dichloroethylene	8260B	0.57		mg/kg dry
3030011-14	SB-50-10-12	Tetrachloroethylene	8260B	3.9		mg/kg dry

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Laboratory Report

03/28/2013

Solutions-IES, Inc.
Attn: Tony Lieberman
1101 Nowell Road
Raleigh, NC 27607

Project: Eaton Selma

Sample Matrix: Solid

Client Sample ID: SB-47-CS-4-6
Prism Sample ID: 3030011-01
Prism Work Order: 3030011
Time Collected: 02/27/13 10:20
Time Submitted: 03/01/13 10:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
General Chemistry Parameters									
pH	**4.0**	**pH Units**			**1**	***9045D**	**3/6/13 11:00**	**JAB**	**P3C0090**

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Laboratory Report

03/28/2013

Solutions-IES, Inc.
Attn: Tony Lieberman
1101 Nowell Road
Raleigh, NC 27607

Project: Eaton Selma

Sample Matrix: Solid

Client Sample ID: SB-47-CS-6-8
Prism Sample ID: 3030011-02
Prism Work Order: 3030011
Time Collected: 02/27/13 10:30
Time Submitted: 03/01/13 10:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
General Chemistry Parameters									
pH	**3.8**	**pH Units**			**1**	***9045D**	**3/6/13 11:00**	**JAB**	**P3C0090**

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Laboratory Report

03/28/2013

Solutions-IES, Inc.
Attn: Tony Lieberman
1101 Nowell Road
Raleigh, NC 27607

Project: Eaton Selma

Sample Matrix: Solid

Client Sample ID: SB-47-CS-8-10
Prism Sample ID: 3030011-03
Prism Work Order: 3030011
Time Collected: 02/27/13 10:40
Time Submitted: 03/01/13 10:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
General Chemistry Parameters									
pH	**3.6**	**pH Units**			**1**	***9045D**	**3/6/13 11:00**	**JAB**	**P3C0090**

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Laboratory Report

03/28/2013

Solutions-IES, Inc.
Attn: Tony Lieberman
1101 Nowell Road
Raleigh, NC 27607

Project: Eaton Selma

Sample Matrix: Solid

Client Sample ID: SB-47-SG-10-12
Prism Sample ID: 3030011-04
Prism Work Order: 3030011
Time Collected: 02/27/13 12:00
Time Submitted: 03/01/13 10:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
General Chemistry Parameters									
pH	**4.0**	**pH Units**			**1**	***9045D**	**3/6/13 11:00**	**JAB**	**P3C0090**

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Laboratory Report

03/28/2013

Solutions-IES, Inc.
Attn: Tony Lieberman
1101 Nowell Road
Raleigh, NC 27607

Project: Eaton Selma

Sample Matrix: Solid

Client Sample ID: SB-47-SG-16-18
Prism Sample ID: 3030011-05
Prism Work Order: 3030011
Time Collected: 02/27/13 12:15
Time Submitted: 03/01/13 10:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
General Chemistry Parameters									
pH	**4.4**	**pH Units**			**1**	***9045D**	**3/6/13 11:00**	**JAB**	**P3C0090**

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Laboratory Report

03/28/2013

Solutions-IES, Inc.
Attn: Tony Lieberman
1101 Nowell Road
Raleigh, NC 27607

Project: Eaton Selma

Sample Matrix: Solid

Client Sample ID: SB-47-SG-18-20
Prism Sample ID: 3030011-06
Prism Work Order: 3030011
Time Collected: 02/27/13 12:30
Time Submitted: 03/01/13 10:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
General Chemistry Parameters									
pH	**4.6**	**pH Units**			**1**	***9045D**	**3/6/13 11:00**	**JAB**	**P3C0090**

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Laboratory Report

03/28/2013

Solutions-IES, Inc.
Attn: Tony Lieberman
1101 Nowell Road
Raleigh, NC 27607

Project: Eaton Selma

Sample Matrix: Solid

Client Sample ID: SB-48-CS-6-8
Prism Sample ID: 3030011-07
Prism Work Order: 3030011
Time Collected: 02/28/13 10:40
Time Submitted: 03/01/13 10:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
General Chemistry Parameters									
pH	**3.4**	**pH Units**			**1**	***9045D**	**3/6/13 11:00**	**JAB**	**P3C0090**

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Laboratory Report

03/28/2013

Solutions-IES, Inc.
Attn: Tony Lieberman
1101 Nowell Road
Raleigh, NC 27607

Project: Eaton Selma

Sample Matrix: Solid

Client Sample ID: SB-48-CS-8-10
Prism Sample ID: 3030011-08
Prism Work Order: 3030011
Time Collected: 02/28/13 10:55
Time Submitted: 03/01/13 10:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
General Chemistry Parameters									
pH	**3.9**	**pH Units**			**1**	***9045D**	**3/6/13 11:00**	**JAB**	**P3C0090**

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Laboratory Report

03/28/2013

Solutions-IES, Inc.
Attn: Tony Lieberman
1101 Nowell Road
Raleigh, NC 27607

Project: Eaton Selma

Sample Matrix: Solid

Client Sample ID: SB-48-CS-10-12
Prism Sample ID: 3030011-09
Prism Work Order: 3030011
Time Collected: 02/28/13 11:15
Time Submitted: 03/01/13 10:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
General Chemistry Parameters									
pH	**3.8**	**pH Units**			**1**	***9045D**	**3/6/13 11:00**	**JAB**	**P3C0090**

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Laboratory Report

03/28/2013

Solutions-IES, Inc.
Attn: Tony Lieberman
1101 Nowell Road
Raleigh, NC 27607

Project: Eaton Selma

Sample Matrix: Solid

Client Sample ID: SB-48-SG-16-18
Prism Sample ID: 3030011-10
Prism Work Order: 3030011
Time Collected: 02/28/13 12:35
Time Submitted: 03/01/13 10:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
General Chemistry Parameters									
pH	**4.3**	**pH Units**			**1**	***9045D**	**3/6/13 11:00**	**JAB**	**P3C0090**

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03/28/2013

Solutions-IES, Inc.
Attn: Tony Lieberman
1101 Nowell Road
Raleigh, NC 27607

Project: Eaton Selma

Sample Matrix: Solid

Client Sample ID: SB-48-SG-18-20
Prism Sample ID: 3030011-11
Prism Work Order: 3030011
Time Collected: 02/28/13 12:45
Time Submitted: 03/01/13 10:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
General Chemistry Parameters									
pH	**4.7**	**pH Units**			**1**	***9045D**	**3/6/13 11:00**	**JAB**	**P3C0090**

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Solutions-IES, Inc.
Attn: Tony Lieberman
1101 Nowell Road
Raleigh, NC 27607

Project: Eaton Selma

Sample Matrix: Solid

Client Sample ID: SB-48-SG-20-22
Prism Sample ID: 3030011-12
Prism Work Order: 3030011
Time Collected: 02/28/13 12:55
Time Submitted: 03/01/13 10:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
General Chemistry Parameters									
pH	**4.8**	**pH Units**			**1**	***9045D**	**3/6/13 11:00**	**JAB**	**P3C0090**

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Laboratory Report

03/28/2013

Solutions-IES, Inc.
Attn: Tony Lieberman
1101 Nowell Road
Raleigh, NC 27607

Project: Eaton Selma

Sample Matrix: Solid

Client Sample ID: SB-49-10-12
Prism Sample ID: 3030011-13
Prism Work Order: 3030011
Time Collected: 02/27/13 16:00
Time Submitted: 03/01/13 10:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
General Chemistry Parameters									
% Solids	**79.0**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**3/5/13 8:45**	**LTB**	**P3C0047**
pH	**3.8**	**pH Units**			**1**	***9045D**	**3/6/13 11:00**	**JAB**	**P3C0090**
Volatile Organic Compounds by GC/MS									
1,1,1-Trichloroethane	**0.099**	**mg/kg dry**	**0.0037**	**0.00012**	**1**	**8260B**	**3/4/13 17:00**	**MSC**	**P3C0046**
1,1,2,2-Tetrachloroethane	BRL	mg/kg dry	0.0037	0.00062	1	8260B	3/4/13 17:00	MSC	P3C0046
1,1,2-Trichloroethane	BRL	mg/kg dry	0.0037	0.00031	1	8260B	3/4/13 17:00	MSC	P3C0046
1,1-Dichloroethane	**0.0027 J**	**mg/kg dry**	**0.0037**	**0.00031**	**1**	**8260B**	**3/4/13 17:00**	**MSC**	**P3C0046**
1,1-Dichloroethylene	**0.14**	**mg/kg dry**	**0.0037**	**0.00023**	**1**	**8260B**	**3/4/13 17:00**	**MSC**	**P3C0046**
1,1-Dichloropropylene	BRL	mg/kg dry	0.0037	0.00039	1	8260B	3/4/13 17:00	MSC	P3C0046
1,2,3-Trichlorobenzene	BRL	mg/kg dry	0.0037	0.00028	1	8260B	3/4/13 17:00	MSC	P3C0046
1,2,3-Trichloropropane	BRL	mg/kg dry	0.0037	0.00056	1	8260B	3/4/13 17:00	MSC	P3C0046
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.0037	0.00022	1	8260B	3/4/13 17:00	MSC	P3C0046
1,2,4-Trimethylbenzene	BRL	mg/kg dry	0.0037	0.00073	1	8260B	3/4/13 17:00	MSC	P3C0046
1,2-Dibromoethane	BRL	mg/kg dry	0.0037	0.00043	1	8260B	3/4/13 17:00	MSC	P3C0046
1,2-Dichlorobenzene	BRL	mg/kg dry	0.0037	0.00017	1	8260B	3/4/13 17:00	MSC	P3C0046
1,2-Dichloroethane	BRL	mg/kg dry	0.0037	0.00060	1	8260B	3/4/13 17:00	MSC	P3C0046
1,2-Dichloropropane	BRL	mg/kg dry	0.0037	0.00024	1	8260B	3/4/13 17:00	MSC	P3C0046
1,3,5-Trimethylbenzene	BRL	mg/kg dry	0.0037	0.00018	1	8260B	3/4/13 17:00	MSC	P3C0046
1,3-Dichlorobenzene	BRL	mg/kg dry	0.0037	0.000051	1	8260B	3/4/13 17:00	MSC	P3C0046
1,3-Dichloropropane	BRL	mg/kg dry	0.0037	0.00040	1	8260B	3/4/13 17:00	MSC	P3C0046
1,4-Dichlorobenzene	BRL	mg/kg dry	0.0037	0.00027	1	8260B	3/4/13 17:00	MSC	P3C0046
2,2-Dichloropropane	BRL	mg/kg dry	0.0037	0.00024	1	8260B	3/4/13 17:00	MSC	P3C0046
2-Chlorotoluene	BRL	mg/kg dry	0.0037	0.00023	1	8260B	3/4/13 17:00	MSC	P3C0046
4-Chlorotoluene	BRL	mg/kg dry	0.0037	0.00018	1	8260B	3/4/13 17:00	MSC	P3C0046
4-Isopropyltoluene	BRL	mg/kg dry	0.0037	0.00024	1	8260B	3/4/13 17:00	MSC	P3C0046
Acetone	BRL A	mg/kg dry	0.037	0.0020	1	8260B	3/4/13 17:00	MSC	P3C0046
Benzene	BRL	mg/kg dry	0.0022	0.00023	1	8260B	3/4/13 17:00	MSC	P3C0046
Bromobenzene	BRL	mg/kg dry	0.0037	0.00016	1	8260B	3/4/13 17:00	MSC	P3C0046
Bromochloromethane	BRL	mg/kg dry	0.0037	0.00054	1	8260B	3/4/13 17:00	MSC	P3C0046
Bromodichloromethane	BRL	mg/kg dry	0.0037	0.00017	1	8260B	3/4/13 17:00	MSC	P3C0046
Bromoform	BRL	mg/kg dry	0.0037	0.00066	1	8260B	3/4/13 17:00	MSC	P3C0046
Bromomethane	BRL	mg/kg dry	0.0075	0.0011	1	8260B	3/4/13 17:00	MSC	P3C0046
Carbon Tetrachloride	BRL	mg/kg dry	0.0037	0.00020	1	8260B	3/4/13 17:00	MSC	P3C0046
Chlorobenzene	BRL	mg/kg dry	0.0037	0.00017	1	8260B	3/4/13 17:00	MSC	P3C0046
Chloroethane	BRL	mg/kg dry	0.0075	0.0028	1	8260B	3/4/13 17:00	MSC	P3C0046
Chloroform	BRL	mg/kg dry	0.0037	0.00016	1	8260B	3/4/13 17:00	MSC	P3C0046
Chloromethane	BRL	mg/kg dry	0.0037	0.0019	1	8260B	3/4/13 17:00	MSC	P3C0046
cis-1,2-Dichloroethylene	**0.0032 J**	**mg/kg dry**	**0.0037**	**0.00030**	**1**	**8260B**	**3/4/13 17:00**	**MSC**	**P3C0046**
cis-1,3-Dichloropropylene	BRL	mg/kg dry	0.0037	0.00018	1	8260B	3/4/13 17:00	MSC	P3C0046
Dibromochloromethane	BRL	mg/kg dry	0.0037	0.00025	1	8260B	3/4/13 17:00	MSC	P3C0046
Dichlorodifluoromethane	BRL	mg/kg dry	0.0037	0.00040	1	8260B	3/4/13 17:00	MSC	P3C0046

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Laboratory Report

03/28/2013

Solutions-IES, Inc.
Attn: Tony Lieberman
1101 Nowell Road
Raleigh, NC 27607

Project: Eaton Selma

Sample Matrix: Solid

Client Sample ID: SB-49-10-12
Prism Sample ID: 3030011-13
Prism Work Order: 3030011
Time Collected: 02/27/13 16:00
Time Submitted: 03/01/13 10:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Ethylbenzene	BRL	mg/kg dry	0.0037	0.00024	1	8260B	3/4/13 17:00	MSC	P3C0046
Isopropyl Ether	BRL	mg/kg dry	0.0037	0.00016	1	8260B	3/4/13 17:00	MSC	P3C0046
Isopropylbenzene (Cumene)	BRL	mg/kg dry	0.0037	0.00019	1	8260B	3/4/13 17:00	MSC	P3C0046
m,p-Xylenes	BRL	mg/kg dry	0.0075	0.00048	1	8260B	3/4/13 17:00	MSC	P3C0046
Methyl Butyl Ketone (2-Hexanone)	BRL	mg/kg dry	0.037	0.00077	1	8260B	3/4/13 17:00	MSC	P3C0046
Methyl Ethyl Ketone (2-Butanone)	BRL	mg/kg dry	0.075	0.0013	1	8260B	3/4/13 17:00	MSC	P3C0046
Methyl Isobutyl Ketone	BRL	mg/kg dry	0.037	0.00098	1	8260B	3/4/13 17:00	MSC	P3C0046
Methylene Chloride	BRL	mg/kg dry	0.0037	0.00027	1	8260B	3/4/13 17:00	MSC	P3C0046
Methyl-tert-Butyl Ether	BRL	mg/kg dry	0.0075	0.00029	1	8260B	3/4/13 17:00	MSC	P3C0046
Naphthalene	BRL	mg/kg dry	0.0075	0.00027	1	8260B	3/4/13 17:00	MSC	P3C0046
n-Butylbenzene	BRL	mg/kg dry	0.0037	0.00016	1	8260B	3/4/13 17:00	MSC	P3C0046
n-Propylbenzene	BRL	mg/kg dry	0.0037	0.00021	1	8260B	3/4/13 17:00	MSC	P3C0046
o-Xylene	BRL	mg/kg dry	0.0037	0.00024	1	8260B	3/4/13 17:00	MSC	P3C0046
sec-Butylbenzene	BRL	mg/kg dry	0.0037	0.00015	1	8260B	3/4/13 17:00	MSC	P3C0046
Styrene	BRL	mg/kg dry	0.0037	0.00016	1	8260B	3/4/13 17:00	MSC	P3C0046
tert-Butylbenzene	BRL	mg/kg dry	0.0037	0.00019	1	8260B	3/4/13 17:00	MSC	P3C0046
Tetrachloroethylene	See 8260ML	mg/kg dry	0.0037	0.00026	1	8260B	3/4/13 17:00	MSC	P3C0046
Toluene	BRL	mg/kg dry	0.0037	0.00022	1	8260B	3/4/13 17:00	MSC	P3C0046
trans-1,2-Dichloroethylene	BRL	mg/kg dry	0.0037	0.00043	1	8260B	3/4/13 17:00	MSC	P3C0046
trans-1,3-Dichloropropylene	BRL	mg/kg dry	0.0037	0.00018	1	8260B	3/4/13 17:00	MSC	P3C0046
Trichloroethylene	**0.030**	**mg/kg dry**	**0.0037**	**0.00035**	**1**	**8260B**	**3/4/13 17:00**	**MSC**	**P3C0046**
Trichlorofluoromethane	**0.0020 J**	**mg/kg dry**	**0.0037**	**0.00030**	**1**	**8260B**	**3/4/13 17:00**	**MSC**	**P3C0046**
Vinyl acetate	BRL	mg/kg dry	0.019	0.0011	1	8260B	3/4/13 17:00	MSC	P3C0046
Vinyl chloride	BRL	mg/kg dry	0.0037	0.00048	1	8260B	3/4/13 17:00	MSC	P3C0046
Xylenes, total	BRL	mg/kg dry	0.011	0.00070	1	8260B	3/4/13 17:00	MSC	P3C0046

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*96 %*	*70-130*
Dibromofluoromethane	*96 %*	*84-123*
Toluene-d8	*90 %*	*76-129*

Volatile Organic Compounds by GC/MS (Medium Level)

Tetrachloroethylene	**1.0**	**mg/kg dry**	**0.21**	**0.063**	**50**	**8260B**	**3/5/13 20:49**	**MSC**	**P3C0071**

Surrogate	Recovery	Control Limits	
4-Bromofluorobenzene	*129 %*	*70-130*	
Dibromofluoromethane	*130 %*	*70-130*	
Toluene-d8	*138 %*	*70-130*	*SR*

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Laboratory Report

03/28/2013

Solutions-IES, Inc.
Attn: Tony Lieberman
1101 Nowell Road
Raleigh, NC 27607

Project: Eaton Selma

Sample Matrix: Solid

Client Sample ID: SB-50-10-12
Prism Sample ID: 3030011-14
Prism Work Order: 3030011
Time Collected: 02/27/13 16:20
Time Submitted: 03/01/13 10:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
General Chemistry Parameters									
% Solids	**76.3**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**3/5/13 8:45**	**LTB**	**P3C0047**
pH	**3.5**	**pH Units**			**1**	***9045D**	**3/6/13 11:00**	**JAB**	**P3C0090**
Volatile Organic Compounds by GC/MS									
1,1,1-Trichloroethane	See 8260ML	mg/kg dry	0.0036	0.00012	1	8260B	3/4/13 17:33	MSC	P3C0046
1,1,2,2-Tetrachloroethane	BRL	mg/kg dry	0.0036	0.00060	1	8260B	3/4/13 17:33	MSC	P3C0046
1,1,2-Trichloroethane	BRL	mg/kg dry	0.0036	0.00031	1	8260B	3/4/13 17:33	MSC	P3C0046
1,1-Dichloroethane	**0.016**	**mg/kg dry**	**0.0036**	**0.00031**	**1**	**8260B**	**3/4/13 17:33**	**MSC**	**P3C0046**
1,1-Dichloroethylene	See 8260ML	mg/kg dry	0.0036	0.00022	1	8260B	3/4/13 17:33	MSC	P3C0046
1,1-Dichloropropylene	BRL	mg/kg dry	0.0036	0.00038	1	8260B	3/4/13 17:33	MSC	P3C0046
1,2,3-Trichlorobenzene	BRL	mg/kg dry	0.0036	0.00027	1	8260B	3/4/13 17:33	MSC	P3C0046
1,2,3-Trichloropropane	BRL	mg/kg dry	0.0036	0.00055	1	8260B	3/4/13 17:33	MSC	P3C0046
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.0036	0.00021	1	8260B	3/4/13 17:33	MSC	P3C0046
1,2,4-Trimethylbenzene	BRL	mg/kg dry	0.0036	0.00071	1	8260B	3/4/13 17:33	MSC	P3C0046
1,2-Dibromoethane	BRL	mg/kg dry	0.0036	0.00042	1	8260B	3/4/13 17:33	MSC	P3C0046
1,2-Dichlorobenzene	BRL	mg/kg dry	0.0036	0.00016	1	8260B	3/4/13 17:33	MSC	P3C0046
1,2-Dichloroethane	BRL	mg/kg dry	0.0036	0.00059	1	8260B	3/4/13 17:33	MSC	P3C0046
1,2-Dichloropropane	BRL	mg/kg dry	0.0036	0.00023	1	8260B	3/4/13 17:33	MSC	P3C0046
1,3,5-Trimethylbenzene	BRL	mg/kg dry	0.0036	0.00017	1	8260B	3/4/13 17:33	MSC	P3C0046
1,3-Dichlorobenzene	BRL	mg/kg dry	0.0036	0.000050	1	8260B	3/4/13 17:33	MSC	P3C0046
1,3-Dichloropropane	BRL	mg/kg dry	0.0036	0.00039	1	8260B	3/4/13 17:33	MSC	P3C0046
1,4-Dichlorobenzene	BRL	mg/kg dry	0.0036	0.00027	1	8260B	3/4/13 17:33	MSC	P3C0046
2,2-Dichloropropane	BRL	mg/kg dry	0.0036	0.00023	1	8260B	3/4/13 17:33	MSC	P3C0046
2-Chlorotoluene	BRL	mg/kg dry	0.0036	0.00022	1	8260B	3/4/13 17:33	MSC	P3C0046
4-Chlorotoluene	BRL	mg/kg dry	0.0036	0.00017	1	8260B	3/4/13 17:33	MSC	P3C0046
4-Isopropyltoluene	BRL	mg/kg dry	0.0036	0.00023	1	8260B	3/4/13 17:33	MSC	P3C0046
Acetone	BRL A	mg/kg dry	0.036	0.0019	1	8260B	3/4/13 17:33	MSC	P3C0046
Benzene	BRL	mg/kg dry	0.0022	0.00022	1	8260B	3/4/13 17:33	MSC	P3C0046
Bromobenzene	BRL	mg/kg dry	0.0036	0.00015	1	8260B	3/4/13 17:33	MSC	P3C0046
Bromochloromethane	BRL	mg/kg dry	0.0036	0.00053	1	8260B	3/4/13 17:33	MSC	P3C0046
Bromodichloromethane	BRL	mg/kg dry	0.0036	0.00017	1	8260B	3/4/13 17:33	MSC	P3C0046
Bromoform	BRL	mg/kg dry	0.0036	0.00064	1	8260B	3/4/13 17:33	MSC	P3C0046
Bromomethane	BRL	mg/kg dry	0.0073	0.0010	1	8260B	3/4/13 17:33	MSC	P3C0046
Carbon Tetrachloride	BRL	mg/kg dry	0.0036	0.00020	1	8260B	3/4/13 17:33	MSC	P3C0046
Chlorobenzene	BRL	mg/kg dry	0.0036	0.00017	1	8260B	3/4/13 17:33	MSC	P3C0046
Chloroethane	BRL	mg/kg dry	0.0073	0.0028	1	8260B	3/4/13 17:33	MSC	P3C0046
Chloroform	BRL	mg/kg dry	0.0036	0.00015	1	8260B	3/4/13 17:33	MSC	P3C0046
Chloromethane	BRL	mg/kg dry	0.0036	0.0018	1	8260B	3/4/13 17:33	MSC	P3C0046
cis-1,2-Dichloroethylene	**0.024**	**mg/kg dry**	**0.0036**	**0.00029**	**1**	**8260B**	**3/4/13 17:33**	**MSC**	**P3C0046**
cis-1,3-Dichloropropylene	BRL	mg/kg dry	0.0036	0.00018	1	8260B	3/4/13 17:33	MSC	P3C0046
Dibromochloromethane	BRL	mg/kg dry	0.0036	0.00025	1	8260B	3/4/13 17:33	MSC	P3C0046
Dichlorodifluoromethane	BRL	mg/kg dry	0.0036	0.00039	1	8260B	3/4/13 17:33	MSC	P3C0046

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PRISM LABORATORIES, INC. | Full-Service Analytical & Environmental Solutions

Laboratory Report

03/28/2013

Solutions-IES, Inc.
Attn: Tony Lieberman
1101 Nowell Road
Raleigh, NC 27607

Project: Eaton Selma

Sample Matrix: Solid

Client Sample ID: SB-50-10-12
Prism Sample ID: 3030011-14
Prism Work Order: 3030011
Time Collected: 02/27/13 16:20
Time Submitted: 03/01/13 10:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Ethylbenzene	**0.0061**	**mg/kg dry**	**0.0036**	**0.00023**	**1**	**8260B**	**3/4/13 17:33**	**MSC**	**P3C0046**
Isopropyl Ether	BRL	mg/kg dry	0.0036	0.00016	1	8260B	3/4/13 17:33	MSC	P3C0046
Isopropylbenzene (Cumene)	BRL	mg/kg dry	0.0036	0.00018	1	8260B	3/4/13 17:33	MSC	P3C0046
m,p-Xylenes	**0.019**	**mg/kg dry**	**0.0073**	**0.00047**	**1**	**8260B**	**3/4/13 17:33**	**MSC**	**P3C0046**
Methyl Butyl Ketone (2-Hexanone)	BRL	mg/kg dry	0.036	0.00075	1	8260B	3/4/13 17:33	MSC	P3C0046
Methyl Ethyl Ketone (2-Butanone)	BRL	mg/kg dry	0.073	0.0013	1	8260B	3/4/13 17:33	MSC	P3C0046
Methyl Isobutyl Ketone	BRL	mg/kg dry	0.036	0.00096	1	8260B	3/4/13 17:33	MSC	P3C0046
Methylene Chloride	BRL	mg/kg dry	0.0036	0.00026	1	8260B	3/4/13 17:33	MSC	P3C0046
Methyl-tert-Butyl Ether	BRL	mg/kg dry	0.0073	0.00028	1	8260B	3/4/13 17:33	MSC	P3C0046
Naphthalene	BRL	mg/kg dry	0.0073	0.00027	1	8260B	3/4/13 17:33	MSC	P3C0046
n-Butylbenzene	BRL	mg/kg dry	0.0036	0.00016	1	8260B	3/4/13 17:33	MSC	P3C0046
n-Propylbenzene	BRL	mg/kg dry	0.0036	0.00021	1	8260B	3/4/13 17:33	MSC	P3C0046
o-Xylene	**0.0049**	**mg/kg dry**	**0.0036**	**0.00023**	**1**	**8260B**	**3/4/13 17:33**	**MSC**	**P3C0046**
sec-Butylbenzene	BRL	mg/kg dry	0.0036	0.00015	1	8260B	3/4/13 17:33	MSC	P3C0046
Styrene	BRL	mg/kg dry	0.0036	0.00016	1	8260B	3/4/13 17:33	MSC	P3C0046
tert-Butylbenzene	BRL	mg/kg dry	0.0036	0.00019	1	8260B	3/4/13 17:33	MSC	P3C0046
Tetrachloroethylene	See 8260ML	mg/kg dry	0.0036	0.00025	1	8260B	3/4/13 17:33	MSC	P3C0046
Toluene	**0.0034 J**	**mg/kg dry**	**0.0036**	**0.00022**	**1**	**8260B**	**3/4/13 17:33**	**MSC**	**P3C0046**
trans-1,2-Dichloroethylene	BRL	mg/kg dry	0.0036	0.00042	1	8260B	3/4/13 17:33	MSC	P3C0046
trans-1,3-Dichloropropylene	BRL	mg/kg dry	0.0036	0.00017	1	8260B	3/4/13 17:33	MSC	P3C0046
Trichloroethylene	**0.069**	**mg/kg dry**	**0.0036**	**0.00034**	**1**	**8260B**	**3/4/13 17:33**	**MSC**	**P3C0046**
Trichlorofluoromethane	**0.0084**	**mg/kg dry**	**0.0036**	**0.00029**	**1**	**8260B**	**3/4/13 17:33**	**MSC**	**P3C0046**
Vinyl acetate	BRL	mg/kg dry	0.018	0.0010	1	8260B	3/4/13 17:33	MSC	P3C0046
Vinyl chloride	**0.0035 J**	**mg/kg dry**	**0.0036**	**0.00047**	**1**	**8260B**	**3/4/13 17:33**	**MSC**	**P3C0046**
Xylenes, total	**0.024**	**mg/kg dry**	**0.011**	**0.00068**	**1**	**8260B**	**3/4/13 17:33**	**MSC**	**P3C0046**

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*96 %*	*70-130*
Dibromofluoromethane	*98 %*	*84-123*
Toluene-d8	*89 %*	*76-129*

Volatile Organic Compounds by GC/MS (Medium Level)

1,1,1-Trichloroethane	**0.54**	**mg/kg dry**	**0.17**	**0.062**	**50**	**8260B**	**3/5/13 21:40**	**MSC**	**P3C0071**
1,1-Dichloroethylene	**0.57**	**mg/kg dry**	**0.17**	**0.073**	**50**	**8260B**	**3/5/13 21:40**	**MSC**	**P3C0071**
Tetrachloroethylene	**3.9**	**mg/kg dry**	**0.34**	**0.11**	**100**	**8260B**	**3/5/13 22:06**	**MSC**	**P3C0071**

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*113 %*	*70-130*
Dibromofluoromethane	*121 %*	*70-130*
Toluene-d8	*118 %*	*70-130*

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Solutions-IES, Inc.
Attn: Tony Lieberman
1101 Nowell Road
Raleigh, NC 27607

Project: Eaton Selma

Prism Work Order: 3030011
Time Submitted: 3/1/2013 10:00:00AM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3C0046 - 5035										
Blank (P3C0046-BLK1)				Prepared & Analyzed: 03/04/13						
1,1,1-Trichloroethane	BRL	0.0050	mg/kg wet							
1,1,2,2-Tetrachloroethane	BRL	0.0050	mg/kg wet							
1,1,2-Trichloroethane	BRL	0.0050	mg/kg wet							
1,1-Dichloroethane	BRL	0.0050	mg/kg wet							
1,1-Dichloroethylene	BRL	0.0050	mg/kg wet							
1,1-Dichloropropylene	BRL	0.0050	mg/kg wet							
1,2,3-Trichlorobenzene	BRL	0.0050	mg/kg wet							
1,2,3-Trichloropropane	BRL	0.0050	mg/kg wet							
1,2,4-Trichlorobenzene	BRL	0.0050	mg/kg wet							
1,2,4-Trimethylbenzene	BRL	0.0050	mg/kg wet							
1,2-Dibromoethane	BRL	0.0050	mg/kg wet							
1,2-Dichlorobenzene	BRL	0.0050	mg/kg wet							
1,2-Dichloroethane	BRL	0.0050	mg/kg wet							
1,2-Dichloropropane	BRL	0.0050	mg/kg wet							
1,3,5-Trimethylbenzene	BRL	0.0050	mg/kg wet							
1,3-Dichlorobenzene	BRL	0.0050	mg/kg wet							
1,3-Dichloropropane	BRL	0.0050	mg/kg wet							
1,4-Dichlorobenzene	BRL	0.0050	mg/kg wet							
2,2-Dichloropropane	BRL	0.0050	mg/kg wet							
2-Chlorotoluene	BRL	0.0050	mg/kg wet							
4-Chlorotoluene	BRL	0.0050	mg/kg wet							
4-Isopropyltoluene	BRL	0.0050	mg/kg wet							
Acetone	BRL	0.050	mg/kg wet							
Benzene	BRL	0.0030	mg/kg wet							
Bromobenzene	BRL	0.0050	mg/kg wet							
Bromochloromethane	BRL	0.0050	mg/kg wet							
Bromodichloromethane	BRL	0.0050	mg/kg wet							
Bromoform	BRL	0.0050	mg/kg wet							
Bromomethane	BRL	0.010	mg/kg wet							
Carbon Tetrachloride	BRL	0.0050	mg/kg wet							
Chlorobenzene	BRL	0.0050	mg/kg wet							
Chloroethane	BRL	0.010	mg/kg wet							
Chloroform	BRL	0.0050	mg/kg wet							
Chloromethane	BRL	0.0050	mg/kg wet							
cis-1,2-Dichloroethylene	BRL	0.0050	mg/kg wet							
cis-1,3-Dichloropropylene	BRL	0.0050	mg/kg wet							
Dibromochloromethane	BRL	0.0050	mg/kg wet							
Dichlorodifluoromethane	BRL	0.0050	mg/kg wet							
Ethylbenzene	BRL	0.0050	mg/kg wet							
Isopropyl Ether	BRL	0.0050	mg/kg wet							
Isopropylbenzene (Cumene)	BRL	0.0050	mg/kg wet							
m,p-Xylenes	BRL	0.010	mg/kg wet							
Methyl Butyl Ketone (2-Hexanone)	BRL	0.050	mg/kg wet							
Methyl Ethyl Ketone (2-Butanone)	BRL	0.10	mg/kg wet							
Methyl Isobutyl Ketone	BRL	0.050	mg/kg wet							
Methylene Chloride	BRL	0.0050	mg/kg wet							

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Solutions-IES, Inc.
Attn: Tony Lieberman
1101 Nowell Road
Raleigh, NC 27607

Project: Eaton Selma

Prism Work Order: 3030011
Time Submitted: 3/1/2013 10:00:00AM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3C0046 - 5035										
Blank (P3C0046-BLK1)				Prepared & Analyzed: 03/04/13						
Methyl-tert-Butyl Ether	BRL	0.010	mg/kg wet							
Naphthalene	BRL	0.010	mg/kg wet							
n-Butylbenzene	BRL	0.0050	mg/kg wet							
n-Propylbenzene	BRL	0.0050	mg/kg wet							
o-Xylene	BRL	0.0050	mg/kg wet							
sec-Butylbenzene	BRL	0.0050	mg/kg wet							
Styrene	BRL	0.0050	mg/kg wet							
tert-Butylbenzene	BRL	0.0050	mg/kg wet							
Tetrachloroethylene	BRL	0.0050	mg/kg wet							
Toluene	BRL	0.0050	mg/kg wet							
trans-1,2-Dichloroethylene	BRL	0.0050	mg/kg wet							
trans-1,3-Dichloropropylene	BRL	0.0050	mg/kg wet							
Trichloroethylene	BRL	0.0050	mg/kg wet							
Trichlorofluoromethane	BRL	0.0050	mg/kg wet							
Vinyl acetate	BRL	0.025	mg/kg wet							
Vinyl chloride	BRL	0.0050	mg/kg wet							
Xylenes, total	BRL	0.015	mg/kg wet							
Surrogate: 4-Bromofluorobenzene	*0.0496*		*mg/kg wet*	*0.05000*		*99*	*70-130*			
Surrogate: Dibromofluoromethane	*0.0458*		*mg/kg wet*	*0.05000*		*92*	*84-123*			
Surrogate: Toluene-d8	*0.0500*		*mg/kg wet*	*0.05000*		*100*	*76-129*			
LCS (P3C0046-BS1)				Prepared & Analyzed: 03/04/13						
1,1-Dichloroethylene	0.0439	0.0050	mg/kg wet	0.05000		88	67-149			
Benzene	0.0458	0.0030	mg/kg wet	0.05000		92	74-127			
Chlorobenzene	0.0501	0.0050	mg/kg wet	0.05000		100	74-118			
Toluene	0.0495	0.0050	mg/kg wet	0.05000		99	71-129			
Trichloroethylene	0.0475	0.0050	mg/kg wet	0.05000		95	75-133			
Surrogate: 4-Bromofluorobenzene	*0.0476*		*mg/kg wet*	*0.05000*		*95*	*70-130*			
Surrogate: Dibromofluoromethane	*0.0466*		*mg/kg wet*	*0.05000*		*93*	*84-123*			
Surrogate: Toluene-d8	*0.0486*		*mg/kg wet*	*0.05000*		*97*	*76-129*			

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Solutions-IES, Inc.
Attn: Tony Lieberman
1101 Nowell Road
Raleigh, NC 27607

Project: Eaton Selma

Prism Work Order: 3030011
Time Submitted: 3/1/2013 10:00:00AM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3C0046 - 5035										
LCS Dup (P3C0046-BSD1)				Prepared & Analyzed: 03/04/13						
1,1-Dichloroethylene	0.0404	0.0050	mg/kg wet	0.05000		81	67-149	8	200	
Benzene	0.0422	0.0030	mg/kg wet	0.05000		84	74-127	8	200	
Chlorobenzene	0.0466	0.0050	mg/kg wet	0.05000		93	74-118	7	200	
Toluene	0.0457	0.0050	mg/kg wet	0.05000		91	71-129	8	200	
Trichloroethylene	0.0441	0.0050	mg/kg wet	0.05000		88	75-133	8	200	
Surrogate: 4-Bromofluorobenzene	*0.0492*		*mg/kg wet*	*0.05000*		*98*	*70-130*			
Surrogate: Dibromofluoromethane	*0.0459*		*mg/kg wet*	*0.05000*		*92*	*84-123*			
Surrogate: Toluene-d8	*0.0482*		*mg/kg wet*	*0.05000*		*96*	*76-129*			
Matrix Spike (P3C0046-MS1)		**Source: 3030011-14**		Prepared: 03/04/13 Analyzed: 03/05/13						
1,1-Dichloroethylene	0.184	0.0066	mg/kg dry	0.06553	See 8260ML	NR	54-162			M, MI
Benzene	0.0521	0.0039	mg/kg dry	0.06553	BRL	79	60-135			
Chlorobenzene	0.0534	0.0066	mg/kg dry	0.06553	BRL	82	57-125			
Toluene	0.0570	0.0066	mg/kg dry	0.06553	0.00338	82	57-135			
Trichloroethylene	0.0791	0.0066	mg/kg dry	0.06553	0.0690	15	38-164			M
Surrogate: 4-Bromofluorobenzene	*0.0633*		*mg/kg dry*	*0.06553*		*97*	*70-130*			
Surrogate: Dibromofluoromethane	*0.0614*		*mg/kg dry*	*0.06553*		*94*	*84-123*			
Surrogate: Toluene-d8	*0.0621*		*mg/kg dry*	*0.06553*		*95*	*76-129*			
Matrix Spike Dup (P3C0046-MSD1)		**Source: 3030011-14**		Prepared: 03/04/13 Analyzed: 03/05/13						
1,1-Dichloroethylene	0.224	0.0066	mg/kg dry	0.06553	See 8260ML	NR	54-162	19	22	M, MI
Benzene	0.0486	0.0039	mg/kg dry	0.06553	BRL	74	60-135	7	20	
Chlorobenzene	0.0508	0.0066	mg/kg dry	0.06553	BRL	77	57-125	5	14	
Toluene	0.0530	0.0066	mg/kg dry	0.06553	0.00338	76	57-135	7	22	
Trichloroethylene	0.0847	0.0066	mg/kg dry	0.06553	0.0690	24	38-164	7	18	M
Surrogate: 4-Bromofluorobenzene	*0.0640*		*mg/kg dry*	*0.06553*		*98*	*70-130*			
Surrogate: Dibromofluoromethane	*0.0622*		*mg/kg dry*	*0.06553*		*95*	*84-123*			
Surrogate: Toluene-d8	*0.0621*		*mg/kg dry*	*0.06553*		*95*	*76-129*			

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Solutions-IES, Inc.
Attn: Tony Lieberman
1101 Nowell Road
Raleigh, NC 27607

Project: Eaton Selma

Prism Work Order: 3030011
Time Submitted: 3/1/2013 10:00:00AM

Volatile Organic Compounds by GC/MS (Medium Level) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3C0071 - 5035										
Blank (P3C0071-BLK1)				Prepared & Analyzed: 03/05/13						
Surrogate: 4-Bromofluorobenzene	*2.37*		*mg/kg wet*	*2.500*		*95*	*70-130*			
Surrogate: Dibromofluoromethane	*2.52*		*mg/kg wet*	*2.500*		*101*	*70-130*			
Surrogate: Toluene-d8	*2.33*		*mg/kg wet*	*2.500*		*93*	*70-130*			
LCS (P3C0071-BS1)				Prepared & Analyzed: 03/05/13						
Surrogate: 4-Bromofluorobenzene	*2.41*		*mg/kg wet*	*2.500*		*96*	*70-130*			
Surrogate: Dibromofluoromethane	*2.57*		*mg/kg wet*	*2.500*		*103*	*70-130*			
Surrogate: Toluene-d8	*2.42*		*mg/kg wet*	*2.500*		*97*	*70-130*			
LCS Dup (P3C0071-BSD1)				Prepared & Analyzed: 03/05/13						
Surrogate: 4-Bromofluorobenzene	*2.16*		*mg/kg wet*	*2.500*		*86*	*70-130*			
Surrogate: Dibromofluoromethane	*2.39*		*mg/kg wet*	*2.500*		*96*	*70-130*			
Surrogate: Toluene-d8	*2.25*		*mg/kg wet*	*2.500*		*90*	*70-130*			

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Level II QC Report

3/28/13

Solutions-IES, Inc.
Attn: Tony Lieberman
1101 Nowell Road
Raleigh, NC 27607

Project: Eaton Selma

Prism Work Order: 3030011
Time Submitted: 3/1/2013 10:00:00AM

General Chemistry Parameters - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3C0047 - NO PREP										
Blank (P3C0047-BLK1)				Prepared: 03/04/13 Analyzed: 03/05/13						
% Solids	99.9	0.100	% by Weight							
Batch P3C0090 - NO PREP										
LCS (P3C0090-BS1)				Prepared & Analyzed: 03/06/13						
pH	6.87		pH Units	6.880		100	99-101			
Duplicate (P3C0090-DUP1)		**Source: 3030011-07**		Prepared & Analyzed: 03/06/13						
pH	3.41		pH Units		3.44			0.9	20	
Duplicate (P3C0090-DUP2)		**Source: 3030011-14**		Prepared & Analyzed: 03/06/13						
pH	3.49		pH Units		3.51			0.6	20	

Sample Extraction Data

Prep Method: 5035

Lab Number	Batch	Initial	Final	Date/Time
3030011-13	P3C0046	8.49 g	5 mL	03/04/13 13:18
3030011-14	P3C0046	9.03 g	5 mL	03/04/13 13:18

Prep Method: 5035

Lab Number	Batch	Initial	Final	Date/Time
3030011-13	P3C0071	7.62 g	5 mL	03/05/13 16:09
3030011-14	P3C0071	9.5 g	5 mL	03/05/13 16:09
3030011-14	P3C0071	9.5 g	5 mL	03/05/13 16:09

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Subcontracted Analyses

The following analyses were subcontracted to Access Analytical

Lab Number	Analysis
3030011-01	Particle Size Distribution (Sub)
3030011-02	Particle Size Distribution (Sub)
3030011-03	Particle Size Distribution (Sub)
3030011-04	Particle Size Distribution (Sub)
3030011-05	Particle Size Distribution (Sub)
3030011-06	Particle Size Distribution (Sub)
3030011-07	Particle Size Distribution (Sub)
3030011-08	Particle Size Distribution (Sub)
3030011-09	Particle Size Distribution (Sub)
3030011-10	Particle Size Distribution (Sub)
3030011-11	Particle Size Distribution (Sub)
3030011-12	Particle Size Distribution (Sub)

The following analyses were subcontracted to Gulf Coast Analytical Labs, Inc.

Lab Number	Analysis
3030011-01	TOC (Sub)
3030011-02	TOC (Sub)
3030011-03	TOC (Sub)
3030011-04	TOC (Sub)
3030011-05	TOC (Sub)
3030011-06	TOC (Sub)
3030011-07	TOC (Sub)
3030011-08	TOC (Sub)
3030011-09	TOC (Sub)
3030011-10	TOC (Sub)
3030011-11	TOC (Sub)
3030011-12	TOC (Sub)

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CHAIN OF CUSTODY RECORD

PAGE 1 OF 2 QUOTE # TO ENSURE PROPER BILLING:

Project Name: Eaton Selma PDI

Short Hold Analysis: (Yes) (No) UST Project: (Yes) (No)

*Please ATTACH any project specific reporting (QC LEVEL I II III IV) provisions and/or QC Requirements

Invoice To: Emily Davis

Address:

Client Company Name: Solutions-IES

Report To/Contact Name: Jody Overmyer

Reporting Address: 1101 Nowell Rd
raleigh, nc, 27607

Phone: (919) 873-1060 Fax (Yes) (No):

Email (Y×s) (No) Email Address: jovermyer@solutionsies.com

EDD Type: ___ PDF ___ Excel ✓ Other jovermyer@solutionsies.com, ellieberman

Site Location Name: Eaton Selma

Site Location Physical Address: Selma, NC

Purchase Order No./Billing Reference 2013.0014/2

Requested Due Date 1 Day 2 Days 3 Days 4 Days 5 Days
"Working Days" 6-9 Days ✓ Standard 10 days

Samples received after 15:00 will be processed next business day.
Turnaround time is based on business days, excluding weekends and holidays.
(SEE REVERSE FOR TERMS & CONDITIONS REGARDING SERVICES RENDERED BY PRISM LABORATORIES, INC. TO CLIENT)

LAB USE ONLY

	YES	NO	N/A
Samples INTACT upon arrival?			
Received ON WET ICE? Temp			
PROPER PRESERVATIVES indicated?			
Received WITHIN HOLDING TIMES?			
CUSTODY SEALS INTACT?			
VOLATILES rec'd W/OUT HEADSPACE?			
PROPER CONTAINERS used?			

TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL

Certification: NELAC ___ USACE ___ FL ___ NC ✓
SC ___ OTHER ___ N/A ___

Water Chlorinated: YES ___ NO ___

Sample Iced Upon Collection: YES ✓ NO ___

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER OR SLUDGE)	SAMPLE CONTAINER *TYPE SEE BELOW	NO.	SIZE	PRESERVATIVES	grain size	PH	TOC				REMARKS	PRISM LAB ID NO.
SB-47-CS-4-6	2-27-13	10:20	Soil		3		none	✓	✓	✓					01
SB-47-CS-6-8	↓	10:30	Soil		3			✓	✓	✓					02
SB-47-CS-8-10		10:40	Soil		3			✓	✓	✓					03
SB-47-SG-10-12		12:00	Soil		3			✓	✓	✓					04
SB-47-SG-16-18		12:15	Soil		3			✓	✓	✓					05
SB-47-SG-18-20	↓	12:30	Soil		3			✓	✓	✓					06
SB-48-CS-6-8	2-28-13	10:40	Soil		3			✓	✓	✓					07
SB-48-CS-8-10	↓	10:55	Soil		3			✓	✓	✓					08
SB-48-CS-10-12		11:15	Soil		3			✓	✓	✓					09
SB-48-SG-16-18	↓	1235	Soil		3			✓	✓	✓					10

Sampler's Signature [signature] Sampled By (Print Name) SEAN JERAL Affiliation Solutions

PRESS DOWN FIRMLY - 3 COPIES

Upon relinquishing, this Chain of Custody is your authorization for Prism to proceed with the analyses as requested above. Any changes must be submitted in writing to the Prism Project Manager. There will be charges for any changes after analyses have been initialized.

Relinquished By: (Signature)	Received By: (Signature)	Date	Military/Hours
[signature]	Naim Daud	02-28	14:50
Relinquished By: (Signature)	Received By: (Signature)	Date	
[signature]			
Relinquished By: (Signature)	Received For Prism Laboratories By:	Date	
	[signature]	3/1/13	10:00

Method of Shipment: NOTE: ALL SAMPLE COOLERS SHOULD BE TAPED SHUT WITH CUSTODY SEALS FOR TRANSPORTATION TO THE LABORATORY. SAMPLES ARE NOT ACCEPTED AND VERIFIED AGAINST COC UNTIL RECEIVED AT THE LABORATORY.

Fed Ex UPS Hand-delivered Prism Field Service Other

Log-In Group No.: 3030011

Additional Comments: Grain size, PH - 9045D, TOC - 9060A,

PRISM USE ONLY

Site Arrival Time:
Site Departure Time:
Field Tech Fee:
Mileage:

NPDES:	UST:	GROUNDWATER:	DRINKING WATER:	SOLID WASTE:	RCRA:	CERCLA	LANDFILL	OTHER:
_ NC _ SC	NC _ SC	_ NC _ SC	_ NC _ SC	✓ NC _ SC	_ NC _ SC	_ NC _ SC	_ NC _ SC	_ NC _ SC

SEE REVERSE FOR TERMS & CONDITIONS

ORIGINAL

PRISM LABORATORIES, INC.

Full Service Analytical & Environmental Solutions

449 Springbrook Road • P.O. Box 240543 • Charlotte, NC 28224-0543
Phone: 704/529-6364 • Fax: 704/525-0409

CHAIN OF CUSTODY RECORD

PAGE 1 OF 2 QUOTE # TO ENSURE PROPER BILLING: _____

Project Name: Eaton Selma PDI

Short Hold Analysis: (Yes) (No) UST Project: (Yes) (No)

*Please ATTACH any project specific reporting (QC LEVEL I II III IV) provisions and/or QC Requirements

Invoice To: Emily Davis

Address: _____

Client Company Name: Solutions-IES

Report To/Contact Name: Jody Overmyer ~~Fighes Joyner~~ ~~Sean Langman~~

Reporting Address: 1101 Nowell Rd
raleigh, nc, 27607

Phone: (919) 873-1060 Fax (Yes) (No): _____

Email (Y*s) (No) Email Address ~~Joyner@ies-solutions-ies.com~~

EDD Type: ___ PDF ___ Excel ✓ Other jeremy@ies-solutions-ies.com + tlaberman@solutions-ies.com

Site Location Name: Eaton Selma

Site Location Physical Address: Selma, NC

Purchase Order No./Billing Reference 2013-0014/2

Requested Due Date 1 Day 2 Days 3 Days 4 Days 5 Days
"Working Days" 6-9 Days ✓ Standard 10 days

Samples received after 15:00 will be processed next business day.
Turnaround time is based on business days, excluding weekends and holidays.
(SEE REVERSE FOR TERMS & CONDITIONS REGARDING SERVICES RENDERED BY PRISM LABORATORIES, INC. TO CLIENT)

LAB USE ONLY

	YES	NO	N/A
Samples INTACT upon arrival?			
Received ON WET ICE? Temp ____			
PROPER PRESERVATIVES indicated?			
Received WITHIN HOLDING TIMES?			
CUSTODY SEALS INTACT?			
VOLATILES rec'd W/OUT HEADSPACE?			
PROPER CONTAINERS used?			

TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL

Certification: NELAC ___ USACE ___ FL ___ NC ✓ SC ___ OTHER ___ N/A ___

Water Chlorinated: YES ___ NO ___

Sample Iced Upon Collection: YES ✓ NO ___

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER OR SLUDGE)	SAMPLE CONTAINER *TYPE SEE BELOW	NO.	SIZE	PRESERVATIVES	grain size	PH	TOC	VOC			REMARKS	PRISM LAB ID NO.
SB-48-SG-18-20	2-28-13	1245	Soil		3			✓	✓	✓					11
SB-48-SG-20-22	2-28-13	1255	Soil		3			✓	✓	✓					12
SB-49-10-12	2/27/13	1600	Soil		3				✓		✓				13
SB-50-10-12	2/27/13	1620	Soil		4				✓		✓				14

Sampler's Signature [signature] Sampled By (Print Name) Sean Janak Affiliation Solutions-ies

PRESS DOWN FIRMLY - 3 COPIES

Upon relinquishing, this Chain of Custody is your authorization for Prism to proceed with the analyses as requested above. Any changes must be submitted in writing to the Prism Project Manager. There will be charges for any changes after analyses have been initialized.

Relinquished By: (Signature) [signature]	Received By: (Signature) Joseph Davis	Date 2-28	Military/Hours 14:50
Relinquished By: (Signature)	Received By: (Signature)	Date	
Relinquished By: (Signature)	Received For Prism Laboratories By: [signature]	Date 3/1/13	10:00

Method of Shipment: NOTE: ALL SAMPLE COOLERS SHOULD BE TAPED SHUT WITH CUSTODY SEALS FOR TRANSPORTATION TO THE LABORATORY. SAMPLES ARE NOT ACCEPTED AND VERIFIED AGAINST COC UNTIL RECEIVED AT THE LABORATORY.

Fed Ex UPS Hand-delivered Prism Field Service Other _____

Log-In Group No. 3030011

Additional Comments: Grain size, PH - 9045D-soil, TOC - 9060A, VOC-8260

PRISM USE ONLY

Site Arrival Time:
Site Departure Time:
Field Tech Fee:
Mileage:

NPDES:	UST:	GROUNDWATER:	DRINKING WATER:	SOLID WASTE:	RCRA:	CERCLA	LANDFILL	OTHER:
_ NC _ SC	NC _ SC	_ NC _ SC	_ NC _ SC	✓ NC _ SC	_ NC _ SC	_ NC _ SC	_ NC _ SC	_ NC _ SC

SEE REVERSE FOR TERMS & CONDITIONS

ORIGINAL

ACCESS
ANALYTICAL, INC.

ANALYTICAL REPORT

CLIENT
Prism Laboratories, Inc.
PO BOX 240543
Charlotte, NC 28224

ATTENTION
Angie Overcash

PROJECT ID
3030011

LABORATORY REPORT NUMBER
213030817

DATE
03/18/2013

Primary Data Review By

Curtis Ekker
Data Validation Manager, GCAL

Secondary Data Review By

Ashley B. Amick
Project Manager, Access Analytical, Inc.
aamick@accessanalyticalinc.com

PLEASE NOTE:

- **Unless otherwise noted, all analysis on this report performed at Gulf Coast Analytical Labs (GCAL), 7979 GSRI Avenue, Baton Rouge, LA 70820.**
- **GCAL is SCDHEC certified laboratory # 73006, NCDENR certified lab # 618, GA certified lab # LA-01955, NELAP certified laboratory # 01955**
- Local support services for this project are provided by Access Analytical, Inc.. Access Analytical is a representative of GCAL serving clients in the SC/NC/GA areas. All questions regarding this report should be directed to your local Access Analytical representative at 803.781.4243 or toll free at 888.315.4243.

NELAP CERTIFICATE NUMBER 01955
DOD ELAP CERTIFICATE NUMBER ADE - 1482

ANALYTICAL RESULTS

PERFORMED BY

GULF COAST ANALYTICAL LABORATORIES, INC.
7979 GSRI Avenue
Baton Rouge, LA 70820

Report Date 03/18/2013

GCAL Report 213030817

Deliver To	Prism Laboratories, Inc. PO BOX 240543 Charlotte, NC 28224 706-529-6364
Attn	Angie Overcash

Project 3030011

CASE NARRATIVE

Client: Access Analytical **Report:** 213030817

Gulf Coast Analytical Laboratories received and analyzed the sample(s) listed on the sample cross-reference page of this report. Receipt of the sample(s) is documented by the attached chain of custody. This applies only to the sample(s) listed in this report. No sample integrity or quality control exceptions were identified unless noted below.

No anomalies were found for the analyzed sample(s).

Laboratory Endorsement

Sample analysis was performed in accordance with approved methodologies provided by the Environmental Protection Agency or other recognized agencies. The samples and their corresponding extracts will be maintained for a period of 30 days unless otherwise arranged. Following this retention period the samples will be disposed in accordance with GCAL's Standard Operating Procedures.

Common Abbreviations Utilized in this Report

ND	Indicates the result was Not Detected at the specified RDL
DO	Indicates the result was Diluted Out
MI	Indicates the result was subject to Matrix Interference
TNTC	Indicates the result was Too Numerous To Count
SUBC	Indicates the analysis was Sub-Contracted
FLD	Indicates the analysis was performed in the Field
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
RDL	Reporting Detection Limit
00:00	Reported as a time equivalent to 12:00 AM

Reporting Flags Utilized in this Report

J	Indicates the result is between the MDL and RDL
U	Indicates the compound was analyzed for but not detected
B	Indicates the analyte was detected in the associated Method Blank

Sample receipt at GCAL is documented through the attached chain of custody. In accordance with NELAC, this report shall be reproduced only in full and with the written permission of GCAL. The results contained within this report relate only to the samples reported. The documented results are presented within this report.

This report pertains only to the samples listed in the Report Sample Summary and should be retained as a permanent record thereof. The results contained within this report are intended for the use of the client. Any unauthorized use of the information contained in this report is prohibited.

I certify that this data package is in compliance with the NELAC standard and terms and conditions of the contract and Statement of Work both technically and for completeness, for other than the conditions in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted has been authorized by the Quality Assurance Manager or his/her designee, as verified by the following signature.

Estimated uncertainty of measurement is available upon request. This report is in compliance with the DOD QSM as specified in the contract if applicable.

Robyn Migues
Technical Director
GCAL REPORT 213030817

THIS REPORT CONTAINS 22 PAGES.

Report Sample Summary

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21303081701	3030011-01	Solid	02/27/2013 10:20	03/08/2013 10:10
21303081702	3030011-02	Solid	02/27/2013 10:30	03/08/2013 10:10
21303081703	3030011-03	Solid	02/27/2013 10:40	03/08/2013 10:10
21303081704	3030011-04	Solid	02/27/2013 12:00	03/08/2013 10:10
21303081705	3030011-05	Solid	02/27/2013 12:15	03/08/2013 10:10
21303081706	3030011-06	Solid	02/27/2013 12:30	03/08/2013 10:10
21303081707	3030011-07	Solid	02/28/2013 10:40	03/08/2013 10:10
21303081708	3030011-08	Solid	02/28/2013 10:55	03/08/2013 10:10
21303081709	3030011-09	Solid	02/28/2013 11:15	03/08/2013 10:10
21303081710	3030011-10	Solid	02/28/2013 12:35	03/08/2013 10:10
21303081711	3030011-11	Solid	02/28/2013 12:45	03/08/2013 10:10
21303081712	3030011-12	Solid	02/28/2013 12:55	03/08/2013 10:10

Summary of Compounds Detected

GCAL ID	Client ID		Matrix	Collect Date/Time	Receive Date/Time
21303081708	**3030011-08**	SB48-CS 8-10	Solid	02/28/2013 10:55	03/08/2013 10:10

SW-846 9060M

CAS#	Parameter	Result	RDL	MDL	Units
C-012	Total Organic Carbon	15400	200	97.0	mg/kg

GCAL ID	Client ID		Matrix	Collect Date/Time	Receive Date/Time
21303081701	**3030011-01**	SB47 CS 4-6	Solid	02/27/2013 10:20	03/08/2013 10:10

SW-846 9060M

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/15/2013 08:58	AEL	503124

CAS#	Parameter	Result	RDL	MDL	Units
C-012	Total Organic Carbon	97.0U	200	97.0	mg/kg

RESULTS REPORTED ON A DRY WEIGHT BASIS

GCAL ID	Client ID		Matrix	Collect Date/Time	Receive Date/Time
21303081702	3030011-02	SB47 CS 6-8	Solid	02/27/2013 10:30	03/08/2013 10:10

SW-846 9060M

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/15/2013 09:06	AEL	503124

CAS#	Parameter	Result	RDL	MDL	Units
C-012	Total Organic Carbon	97.0U	200	97.0	mg/kg

RESULTS REPORTED ON A DRY WEIGHT BASIS

GCAL ID	Client ID		Matrix	Collect Date/Time	Receive Date/Time
21303081703	3030011-03	SD47 CS 8-10	Solid	02/27/2013 10:40	03/08/2013 10:10

SW-846 9060M

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/15/2013 09:13	AEL	503124

CAS#	Parameter	Result	RDL	MDL	Units
C-012	Total Organic Carbon	97.0U	200	97.0	mg/kg

RESULTS REPORTED ON A DRY WEIGHT BASIS

GCAL ID	Client ID		Matrix	Collect Date/Time	Receive Date/Time
21303081704	3030011-04	SB47 SG 10-12	Solid	02/27/2013 12:00	03/08/2013 10:10

SW-846 9060M

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/15/2013 09:24	AEL	503124

CAS#	Parameter	Result	RDL	MDL	Units
C-012	Total Organic Carbon	97.0U	200	97.0	mg/kg

RESULTS REPORTED ON A DRY WEIGHT BASIS

GCAL ID	Client ID		Matrix	Collect Date/Time	Receive Date/Time
21303081705	**3030011-05**	SB47 SG 16-18	Solid	02/27/2013 12:15	03/08/2013 10:10

SW-846 9060M

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/15/2013 09:29	AEL	503124

CAS#	Parameter	Result	RDL	MDL	Units
C-012	Total Organic Carbon	97.0U	200	97.0	mg/kg

RESULTS REPORTED ON A DRY WEIGHT BASIS

GCAL ID	Client ID		Matrix	Collect Date/Time	Receive Date/Time
21303081706	3030011-06	SB47 SG 18-20	Solid	02/27/2013 12:30	03/08/2013 10:10

SW-846 9060M

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/15/2013 10:14	AEL	503124

CAS#	Parameter	Result	RDL	MDL	Units
C-012	Total Organic Carbon	97.0U	200	97.0	mg/kg

RESULTS REPORTED ON A DRY WEIGHT BASIS

GCAL ID	Client ID		Matrix	Collect Date/Time	Receive Date/Time
21303081707	3030011-07	SB48 CS 6-8	Solid	02/28/2013 10:40	03/08/2013 10:10

SW-846 9060M

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/15/2013 10:26	AEL	503124

CAS#	Parameter	Result	RDL	MDL	Units
C-012	Total Organic Carbon	97.0U	200	97.0	mg/kg

RESULTS REPORTED ON A DRY WEIGHT BASIS

GCAL ID	Client ID		Matrix	Collect Date/Time	Receive Date/Time
21303081708	3030011-08	SB48 CS 8-10	Solid	02/28/2013 10:55	03/08/2013 10:10

SW-846 9060M

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/15/2013 10:39	AEL	503124

CAS#	Parameter	Result	RDL	MDL	Units
C-012	Total Organic Carbon	15400	200	97.0	mg/kg

RESULTS REPORTED ON A DRY WEIGHT BASIS

GCAL ID	Client ID		Matrix	Collect Date/Time	Receive Date/Time
21303081709	3030011-09	SB48 CS 10-12	Solid	02/28/2013 11:15	03/08/2013 10:10

SW-846 9060M

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/15/2013 10:48	AEL	503124

CAS#	Parameter	Result	RDL	MDL	Units
C-012	Total Organic Carbon	97.0U	200	97.0	mg/kg

RESULTS REPORTED ON A DRY WEIGHT BASIS

GCAL ID	Client ID		Matrix	Collect Date/Time	Receive Date/Time
21303081710	3030011-10	SB48 SG 16-18	Solid	02/28/2013 12:35	03/08/2013 10:10

SW-846 9060M

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/15/2013 10:54	AEL	503124

CAS#	Parameter	Result	RDL	MDL	Units
C-012	Total Organic Carbon	97.0U	200	97.0	mg/kg

RESULTS REPORTED ON A DRY WEIGHT BASIS

GCAL ID	Client ID		Matrix	Collect Date/Time	Receive Date/Time
21303081711	**3030011-11**	SB48 SG 18-20	Solid	02/28/2013 12:45	03/08/2013 10:10

SW-846 9060M

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/15/2013 11:18	AEL	503124

CAS#	Parameter	Result	RDL	MDL	Units
C-012	Total Organic Carbon	97.0U	200	97.0	mg/kg

RESULTS REPORTED ON A DRY WEIGHT BASIS

GCAL ID	Client ID		Matrix	Collect Date/Time	Receive Date/Time
21303081712	**3030011-12**	SB48 SG 20-22	Solid	02/28/2013 12:55	03/08/2013 10:10

SW-846 9060M

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/15/2013 11:27	AEL	503124

CAS#	Parameter	Result	RDL	MDL	Units
C-012	Total Organic Carbon	97.0U	200	97.0	mg/kg

RESULTS REPORTED ON A DRY WEIGHT BASIS

General Chemistry Quality Control Summary

Analytical Batch 503124	**Client ID**	MB503124			LCS503124		
Prep Batch N/A	**GCAL ID**	1171375			1171376		
	Sample Type	Method Blank			LCS		
	Analytical Date	03/15/2013 07:54			03/15/2013 08:05		
	Matrix	Solid			Solid		
SW-846 9060M		**Units**	mg/kg	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
C-012	Total Organic Carbon	97.0U	97.0	10000	11000	110	69 - 128

Analytical Batch 503124	**Client ID**	705450-SAMPLE OF R290 B/F HYDR		1167914DUP		
Prep Batch N/A	**GCAL ID**	21303056201		1171379		
	Sample Type	SAMPLE		DUP		
	Analytical Date	03/15/2013 08:17		03/15/2013 08:43		
	Matrix	Solid		Solid		
SW-846 9060M		**Units**	mg/kg	**Result**		**RPD**
		Result	**RDL**		**RPD**	**Limit**
C-012	Total Organic Carbon	54000	97.0	54200	0.4	25

GCAL Access|4565|2130308 17|3/15/13

PRISM LABORATORIES, INC. | Full-Service Analytical & Environmental Solutions

SUBCONTRACT ORDER

Prism Laboratories, Inc.

3030011

Certification: NELAC___ USACE___
SC___ Other _____
N/A____

SENDING LABORATORY:

Prism Laboratories, Inc.
P. O. Box 240543
Charlotte, NC 28224-0543
Phone: 800-529-6364
Fax: 704-525-0409
Project Manager: Angela D. Overcash

RECEIVING LABORATORY:

Gulf Coast Analytical Labs, Inc.
7979 GSRI Avenue
Baton Rouge, LA 70820
Phone :(225) 769-4900
Fax: (225) 767-5717

Analysis	Due	Expires	Laboratory ID	Comments
Sample ID: 3030011-01	**Solid**	**Sampled:02/27/13 10:20**		1
TOC (Sub)		03/13/13 10:20		
Containers Supplied: 4oz GLASS				
Sample ID: 3030011-02	**Solid**	**Sampled:02/27/13 10:30**		2
TOC (Sub)		03/13/13 10:30		
Containers Supplied:				
Sample ID: 3030011-03	**Solid**	**Sampled:02/27/13 10:40**		3
TOC (Sub)		03/13/13 10:40		
Containers Supplied:				
Sample ID: 3030011-04	**Solid**	**Sampled:02/27/13 12:00**		4
TOC (Sub)		03/13/13 12:00		
Containers Supplied:				
Sample ID: 3030011-05	**Solid**	**Sampled:02/27/13 12:15**		5
TOC (Sub)		03/13/13 12:15	7949 1989 1470	3.2

Released By	Date	Received By	Date	
	3/7/13	FED EX	3/7/13	
FED EX	3/8/13	M Campana GCAL	3/8/13	10:10

Access | 4565 | 213030817 | 3/15/13

SUBCONTRACT ORDER
Prism Laboratories, Inc.
3030011

Certification: NELAC___ USACE___
SC___ Other _____
N/A_____

Analysis	Due	Expires	Laboratory ID	Comments
Containers Supplied:				
Sample ID: 3030011-06	**Solid**	**Sampled:02/27/13 12:30**		6
TOC (Sub)		03/13/13 12:30		
Containers Supplied: 4oz GLASS				
Sample ID: 3030011-07	**Solid**	**Sampled:02/28/13 10:40**		7
TOC (Sub)		03/14/13 10:40		
Containers Supplied:				
Sample ID: 3030011-08	**Solid**	**Sampled:02/28/13 10:55**		8
TOC (Sub)		03/14/13 10:55		
Containers Supplied:				
Sample ID: 3030011-09	**Solid**	**Sampled:02/28/13 11:15**		9
TOC (Sub)		03/14/13 11:15		
Containers Supplied:				
Sample ID: 3030011-10	**Solid**	**Sampled:02/28/13 12:35**		10
TOC (Sub)		03/14/13 12:35		
Containers Supplied:				
Sample ID: 3030011-11	**Solid**	**Sampled:02/28/13 12:45**		11
TOC (Sub)		03/14/13 12:45		
Containers Supplied:				
Sample ID: 3030011-12	**Solid**	**Sampled:02/28/13 12:55**		12
TOC (Sub)		03/14/13 12:55		
Containers Supplied:				

Released By	Date	Received By	Date
[signature]	3/7/13	FED EX	3/7/13
FED EX	3/8/13	M Campagna	3/8/13 10:10
		GCAL	

GCAL ANALYTICAL LABORATORIES, LLC

SAMPLE RECEIVING CHECKLIST

213030817

SAMPLE DELIVERY GROUP	213030817
Client 4565 - Access Analytical	**Transport Method** FEDEX
Profile Number 80251	**Received By** Saucier, Charlotte
Line Item(s) 2 - Solid	**Receive Date(s)** 03/08/13

CHECKLIST

	Yes	No	NA
Were all samples received using proper thermal preservation?	☑	☐	☐
When used, were all custody seals intact?	☑	☐	☐
Were all samples received in proper containers?	☑	☐	☐
Were all samples received using proper chemical preservation?	☑	☐	☐
Was preservative added to any container at the lab?	☐	☑	☐
Were all containers received in good condition?	☑	☐	☐
Were all VOA vials received with no head space?	☐	☐	☑
Do all sample labels match the Chain of Custody?	☑	☐	☐
Did the Chain of Custody list the sampling technician?	☐	☑	☐
Was the COC maintained i.e. all signatures, dates and time of receipt included?	☑	☐	☐

COOLERS

Airbill	Temp(oC)
7949 1989 1470	3.2

DISCREPANCIES

None

LABORATORY PRESERVATIONS

None

NOTES

Revision 1.4

Angie Overcash

From: <info@gcal.com>
To: <aovercash@prismlabs.com>
Sent: Monday, March 11, 2013 4:49 PM
Attach: 213030817.pdf; GCBR_213030817_ELD.csv
Subject: GCAL LETTER OF RECEIPT - Report#(213030817)

GCAL LETTER OF RECEIPT

Dear Angie Overcash,

Thank you for your recent request for analytical services. These samples were assigned to the Report# shown below.

Additionally the Chain-of-Custody(s) for your referenced Project/Report# are included as an Adobe Acrobat (.PDF) attachment. The Adobe Acrobat Reader is available as a free download at:
http://www.adobe.com/products/acrobat/readstep2.html

Client Access Analytical
Project 3030011
Report# 213030817

The following samples were received and scheduled for the analyses indicated.

GCAL ID	Client ID	Matrix	Collect Date	Collect Time	Received	Prelim Results Due
21303081701	3030011-01	Solid	02/27/13	10:20	03/08/13	03/15/13

Scheduled Analysis: Dry Weight
SW-846 9060M

GCAL ID	Client ID	Matrix	Collect Date	Collect Time	Received	Prelim Results Due
21303081702	3030011-02	Solid	02/27/13	10:30	03/08/13	03/15/13

Scheduled Analysis: Dry Weight
SW-846 9060M

GCAL ID	Client ID	Matrix	Collect	Collect	Received	Prelim Results

GCAL

PRISM LABORATORIES, INC. | Full-Service Analytical & Environmental Solutions

SUBCONTRACT ORDER

Prism Laboratories, Inc.

3030011

Certification: NELAC___ USACE____
SC___ Other _____
N/A_____

SENDING LABORATORY:

Prism Laboratories, Inc.
P. O. Box 240543
Charlotte, NC 28224-0543
Phone: 800-529-6364
Fax: 704-525-0409
Project Manager: Angela D. Overcash

RECEIVING LABORATORY:

Gulf Coast Analytical Labs, Inc.
7979 GSRI Avenue
Baton Rouge, LA 70820
Phone :(225) 769-4900
Fax: (225) 767-5717

Analysis	Due	Expires	Laboratory ID	Comments
Sample ID: 3030011-01	**Solid**	**Sampled:02/27/13 10:20**		
TOC (Sub)		03/13/13 10:20		
Containers Supplied: 4oz GLASS				
Sample ID: 3030011-02	**Solid**	**Sampled:02/27/13 10:30**		
TOC (Sub)		03/13/13 10:30		
Containers Supplied:				
Sample ID: 3030011-03	**Solid**	**Sampled:02/27/13 10:40**		
TOC (Sub)		03/13/13 10:40		
Containers Supplied:				
Sample ID: 3030011-04	**Solid**	**Sampled:02/27/13 12:00**		
TOC (Sub)		03/13/13 12:00		
Containers Supplied:				
Sample ID: 3030011-05	**Solid**	**Sampled:02/27/13 12:15**		
TOC (Sub)		03/13/13 12:15		

Released By	Date	Received By	Date
[signature]	3/7/13	FED EX	3/7/13
FED EX	3/8/13	GCAL	

21303081708	3030011-08	Solid	02/28/13	10:55	03/08/13	03/15/13

Scheduled Analysis: Dry Weight
SW-846 9060M

GCAL ID	Client ID	Matrix	Collect Date	Collect Time	Received	Prelim Results Due
21303081709	3030011-09	Solid	02/28/13	11:15	03/08/13	03/15/13

Scheduled Analysis: Dry Weight
SW-846 9060M

GCAL ID	Client ID	Matrix	Collect Date	Collect Time	Received	Prelim Results Due
21303081710	3030011-10	Solid	02/28/13	12:35	03/08/13	03/15/13

Scheduled Analysis: Dry Weight
SW-846 9060M

GCAL ID	Client ID	Matrix	Collect Date	Collect Time	Received	Prelim Results Due
21303081711	3030011-11	Solid	02/28/13	12:45	03/08/13	03/15/13

Scheduled Analysis: Dry Weight
SW-846 9060M

GCAL ID	Client ID	Matrix	Collect Date	Collect Time	Received	Prelim Results Due
21303081712	3030011-12	Solid	02/28/13	12:55	03/08/13	03/15/13

Scheduled Analysis: Dry Weight
SW-846 9060M

For further information or assistance concerning these samples, please contact me at your earliest convenience.

S&ME

SUBCONTRACT ORDER

Prism Laboratories, Inc.

3030011

Certification: NELAC___ USACE____
SC___ Other _____
N/A_____

SENDING LABORATORY:

Prism Laboratories, Inc.
P. O. Box 240543
Charlotte, NC 28224-0543
Phone: 800-529-6364
Fax: 704-525-0409
Project Manager: Angela D. Overcash

RECEIVING LABORATORY:

S&ME, Inc - Charlotte
9751 Southern Pine Blvd.
Charlotte, NC 28273-5560
Phone :7045234726
Fax: 7045253953

Analysis	Due	Expires	Laboratory ID	Comments
SB47 CS 4-6				
Sample ID: 3030011-01	**Solid**	**Sampled:02/27/13 10:20**		Grain size analysis
Particle Size Distribution (Sub)		03/27/13 10:20		
Containers Supplied: 1 LITER GLASS				
SB47 CS 6-8				
Sample ID: 3030011-02	**Solid**	**Sampled:02/27/13 10:30**		
Particle Size Distribution (Sub)		03/27/13 10:30		
Containers Supplied:				
SB47 CS 8-10				
Sample ID: 3030011-03	**Solid**	**Sampled:02/27/13 10:40**		
Particle Size Distribution (Sub)		03/27/13 10:40		
Containers Supplied:				
SB47 SG 10-12				
Sample ID: 3030011-04	**Solid**	**Sampled:02/27/13 12:00**		
Particle Size Distribution (Sub)		03/27/13 12:00		
Containers Supplied:				
SB47 SG 16-18				
Sample ID: 3030011-05	**Solid**	**Sampled:02/27/13 12:15**		
Particle Size Distribution (Sub)		03/27/13 12:15		
Containers Supplied:				

Released By	Date	Received By	Date
	3/7/13		3/7/13
	3/7/13		

March 27, 2013

Terracon

Access Analytical
7478 Carlisle Street
Irmo, South Carolina 29063

Attn: Mr. Ashley Amick

Re: Summary of Laboratory Testing
3030011
Terracon Project No. 73075016

Dear Mr. Amick:

Terracon has performed the requested laboratory testing program indicated by your Chain of Custody Record, dated 03/21/13. The correspondence indicated hydrometer testing for Samples 01 to 12. The individual data sheets are attached.

The results have been electronically forwarded to you in PDF format at aamick@accessanalyticalinc.com, as instructed. If there are any questions regarding the results or if we can be of additional service, please contact us.

Sincerely,
Terracon Consultants, Inc.

Rebecca Simms, CET
Laboratory Manager

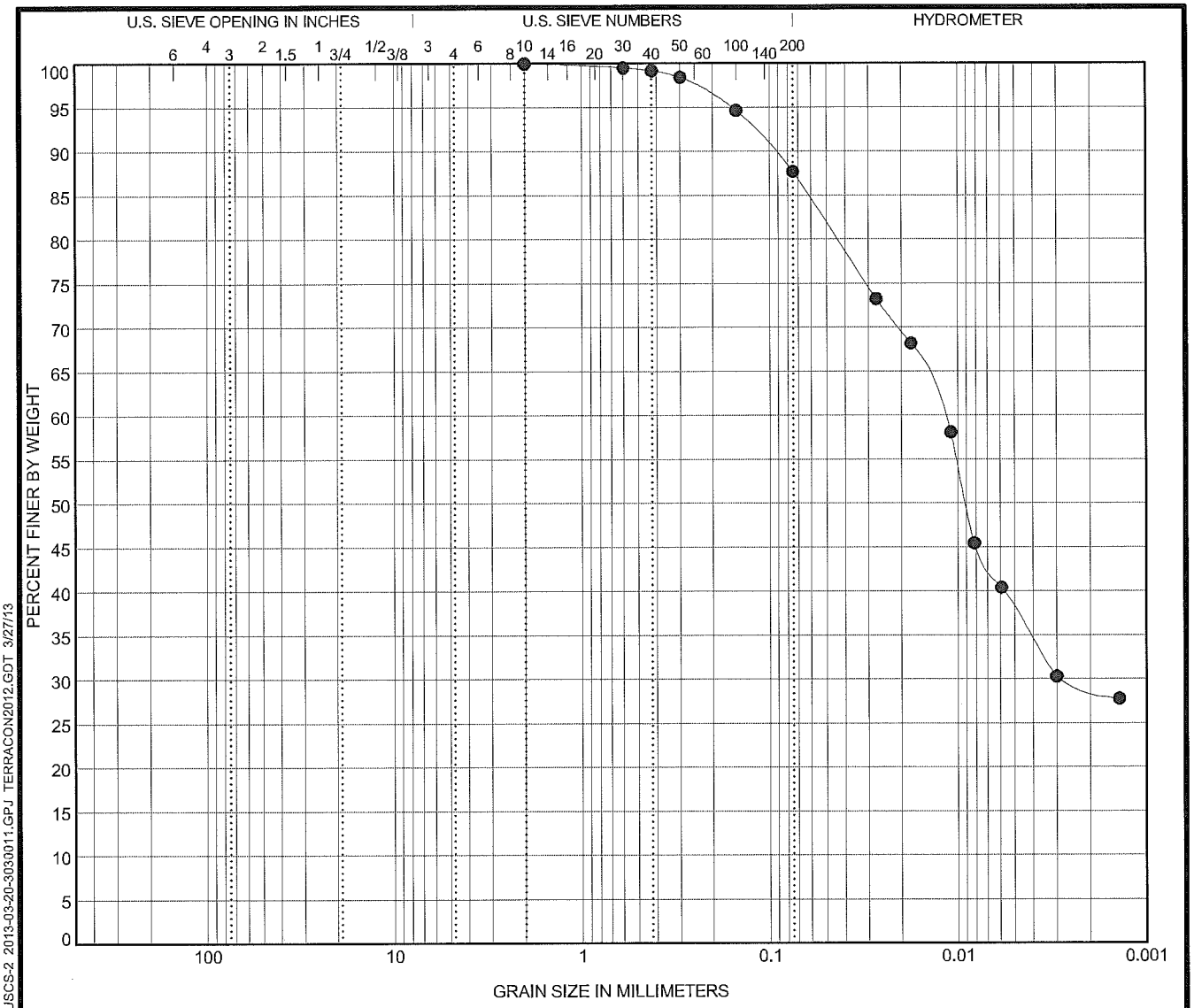
Phillip A. Morrison, P.E.
Geotechnical Department Manager

Attachments
Copies:
1xc: Above
1xc: Above (PDF via email)
1xc: File

RS/PM

GRAIN SIZE DISTRIBUTION

ASTM D422



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

	Boring ID	Depth (ft)	USCS Classification	LL	PL	PI	Cc	Cu
●	01	0.0 -						

	Boring ID	Depth (ft)	D_{100}	D_{60}	D_{30}	D_{10}	% Gravel	% Sand	% Silt	% Clay
●	01	0.0 -	2	0.012	0.003		0.0	12.3	49.8	38.0

SB47 CS 4-6

PROJECT: 3030011

SITE: , NORTH CAROLINA

Terracon
521 Clemson Road
Columbia, South Carolina

PROJECT NUMBER: 73075016

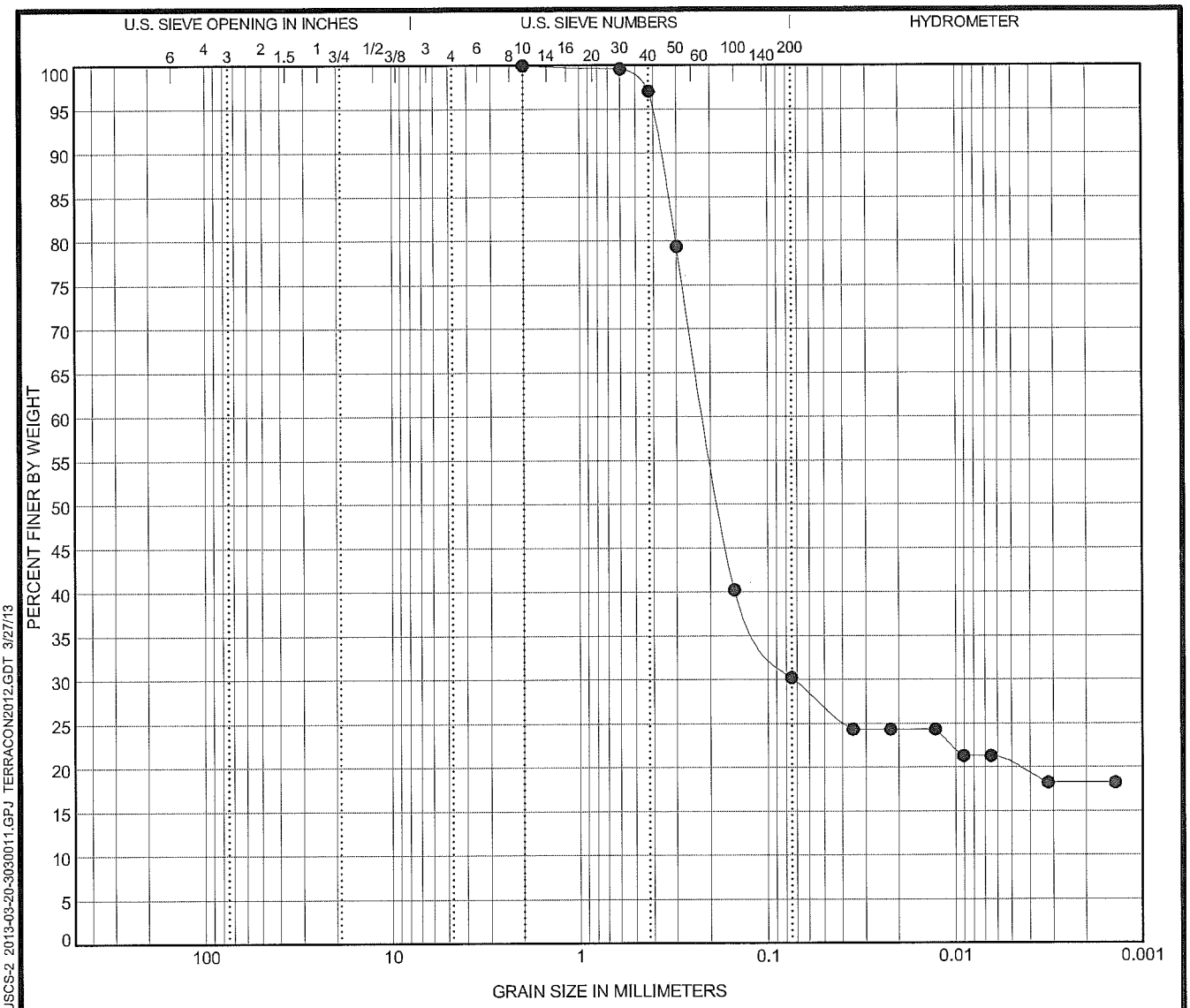
CLIENT: ACCESS ANALYTICAL

EXHIBIT: B-1

LABORATORY TESTS ARE NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GRAIN SIZE: USCS-2 2013-03-20-3030011.GPJ TERRACON2012.GDT 3/27/13

GRAIN SIZE DISTRIBUTION

ASTM D422



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Boring ID	Depth (ft)	USCS Classification	LL	PL	PI	Cc	Cu
02	0.0 -						

Boring ID	Depth (ft)	D_{100}	D_{60}	D_{30}	D_{10}	% Gravel	% Sand	% Silt	% Clay
02	0.0 -	2	0.213	0.073		0.0	69.7	10.1	20.2

SB47 CS 6-8

PROJECT: 3030011

SITE: , NORTH CAROLINA

Terracon
521 Clemson Road
Columbia, South Carolina

PROJECT NUMBER: 73075016

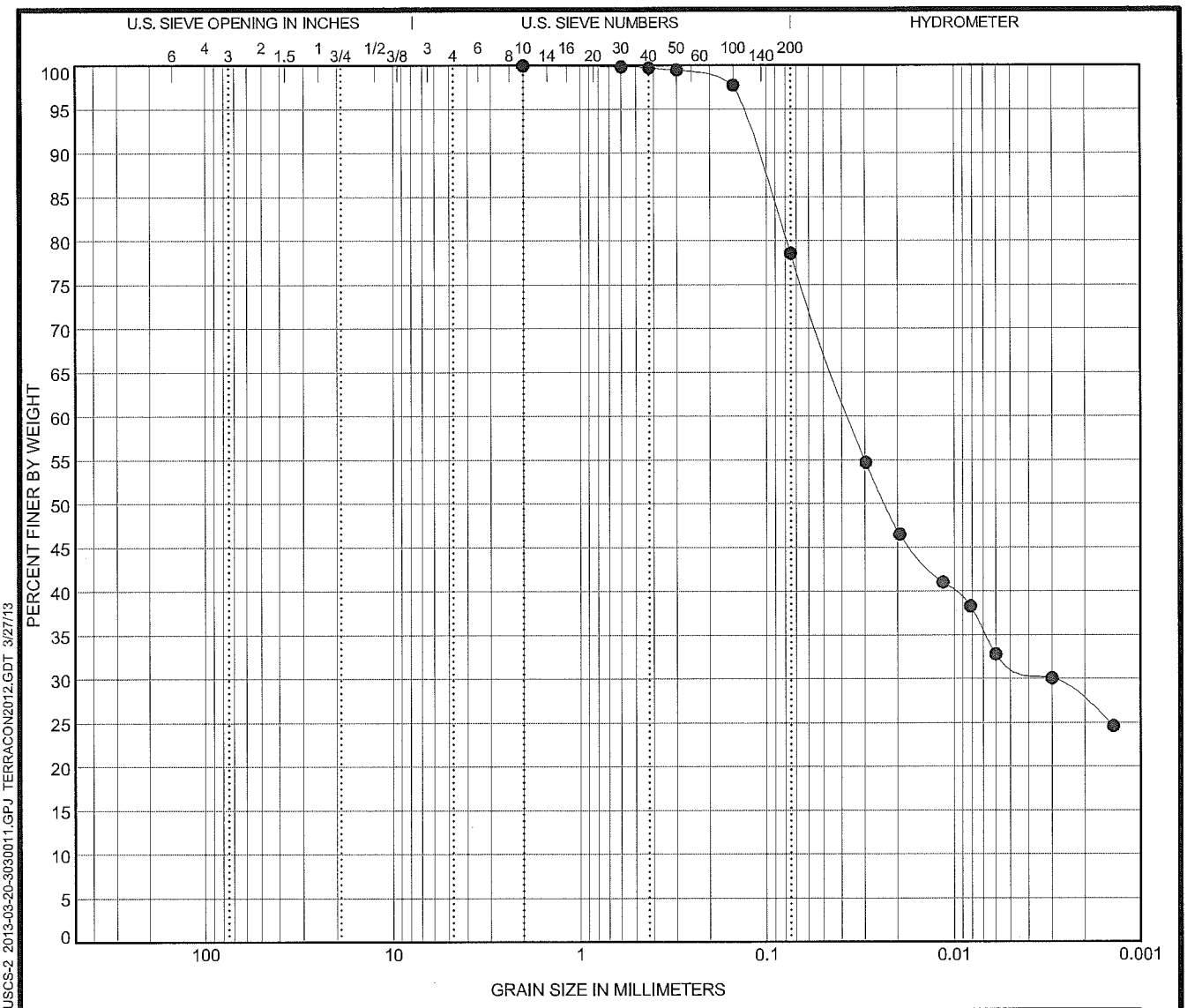
CLIENT: ACCESS ANALYTICAL

EXHIBIT: B-2

LABORATORY TESTS ARE NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GRAIN SIZE: USCS-2 2013-03-20-3030011.GPJ TERRACON2012.GDT 3/27/13

GRAIN SIZE DISTRIBUTION

ASTM D422



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

	Boring ID	Depth (ft)	USCS Classification	LL	PL	PI	Cc	Cu
●	03	0.0 -						

	Boring ID	Depth (ft)	D_{100}	D_{60}	D_{30}	D_{10}	% Gravel	% Sand	% Silt	% Clay
●	03	0.0 -	2	0.036	0.003		0.0	21.4	46.5	32.1

SB47 CS 8-10

PROJECT: 3030011

SITE: , NORTH CAROLINA

Terracon
521 Clemson Road
Columbia, South Carolina

PROJECT NUMBER: 73075016

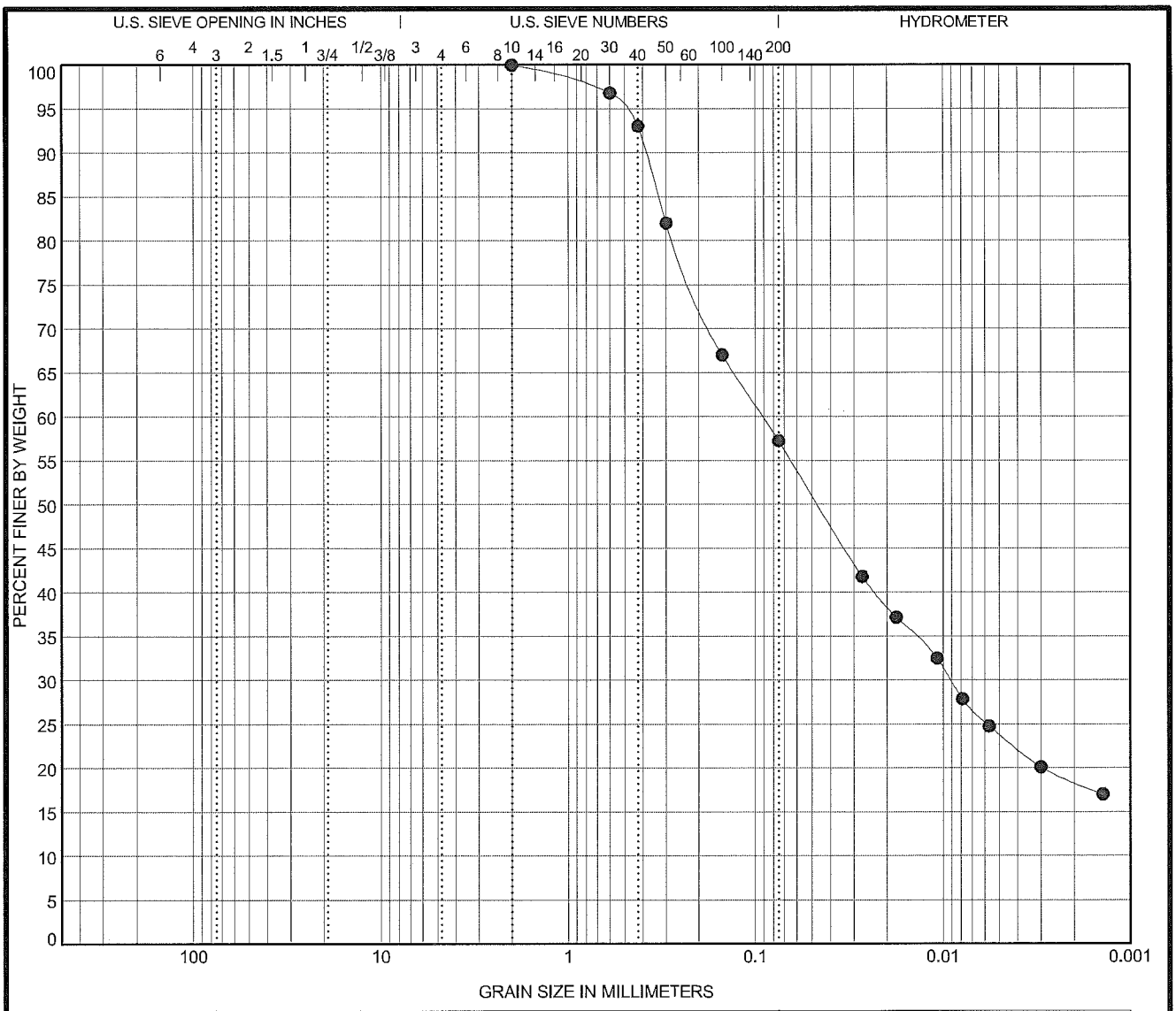
CLIENT: ACCESS ANALYTICAL

EXHIBIT: B-3

LABORATORY TESTS ARE NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GRAIN SIZE: USCS-2 2013-03-20-3030011.GPJ TERRACON2012.GDT 3/27/13

GRAIN SIZE DISTRIBUTION

ASTM D422



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

	Boring ID	Depth (ft)	USCS Classification	LL	PL	PI	Cc	Cu
●	04	0.0 -						

	Boring ID	Depth (ft)	D_{100}	D_{60}	D_{30}	D_{10}	% Gravel	% Sand	% Silt	% Clay
●	04	0.0 -	2	0.091	0.009		0.0	42.7	33.4	23.8

SB47 SG 10-12

PROJECT: 3030011

SITE: , NORTH CAROLINA

Terracon
521 Clemson Road
Columbia, South Carolina

PROJECT NUMBER: 73075016

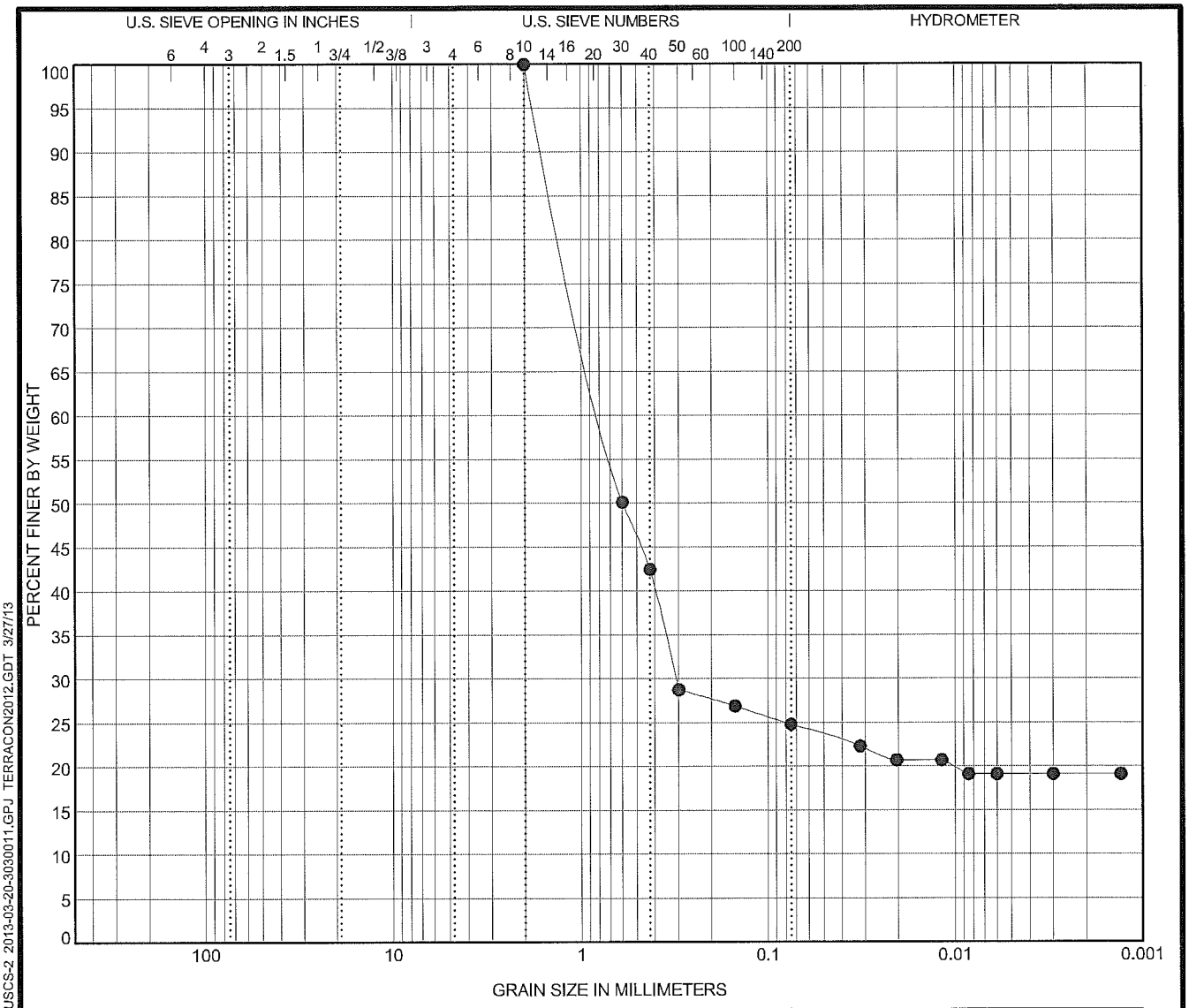
CLIENT: ACCESS ANALYTICAL

EXHIBIT: B-4

LABORATORY TESTS ARE NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GRAIN SIZE: USCS-2 2013-03-20-3030011.GPJ TERRACON2012.GDT 3/27/13

GRAIN SIZE DISTRIBUTION

ASTM D422



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

	Boring ID	Depth (ft)	USCS Classification	LL	PL	PI	Cc	Cu
●	05	0.0 -						

	Boring ID	Depth (ft)	D_{100}	D_{60}	D_{30}	D_{10}	% Gravel	% Sand	% Silt	% Clay
●	05	0.0 -	2	0.761	0.31		0.0	75.2	5.7	19.1

SB47 SG 16-18

PROJECT: 3030011

SITE: , NORTH CAROLINA

Terracon
521 Clemson Road
Columbia, South Carolina

PROJECT NUMBER: 73075016

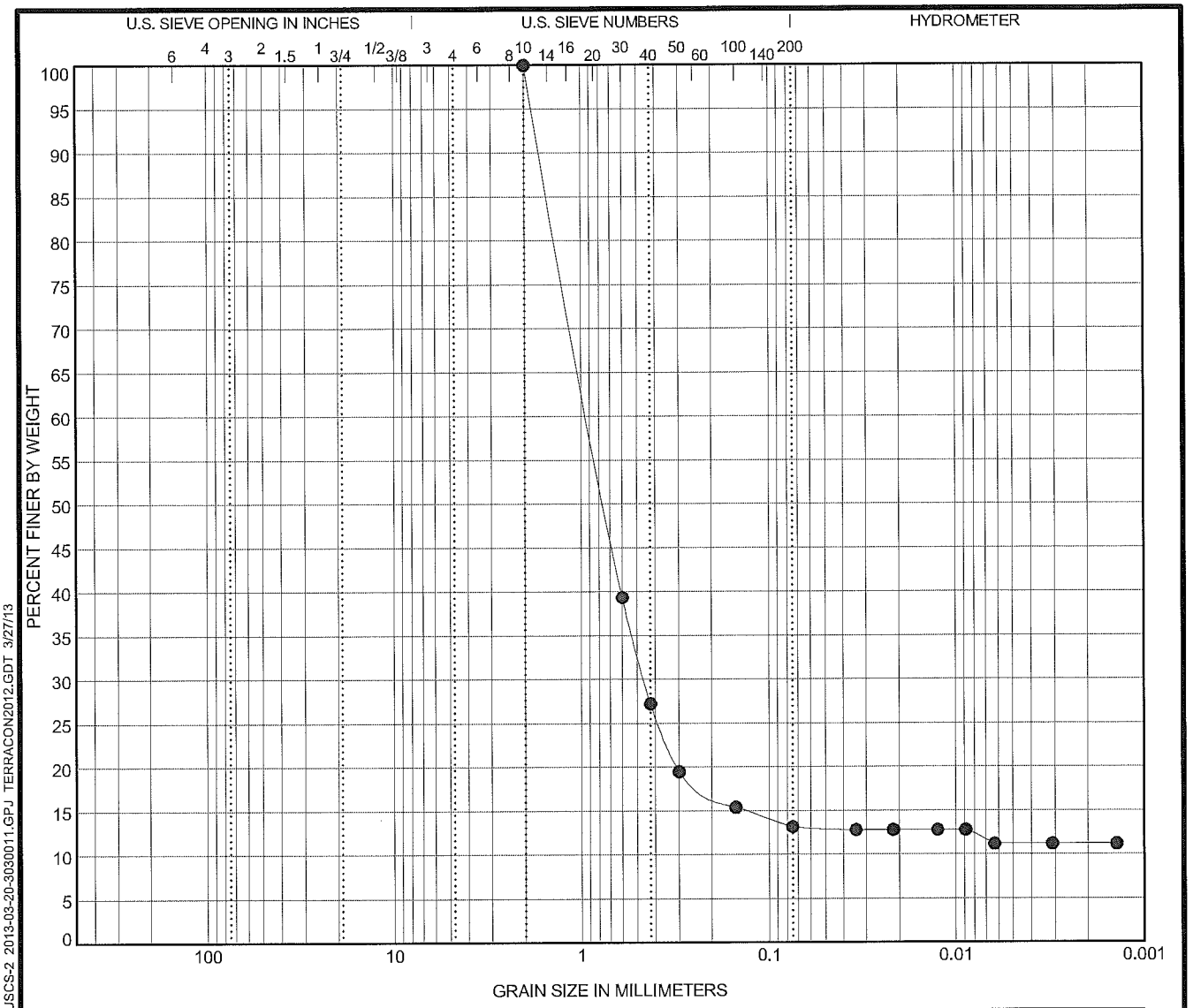
CLIENT: ACCESS ANALYTICAL

EXHIBIT: B-5

LABORATORY TESTS ARE NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GRAIN SIZE: USCS-2 2013-03-20-3030011.GPJ TERRACON2012.GDT 3/27/13

GRAIN SIZE DISTRIBUTION

ASTM D422



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

	Boring ID	Depth (ft)	USCS Classification	LL	PL	PI	Cc	Cu
●	06	0.0 -						

	Boring ID	Depth (ft)	D_{100}	D_{60}	D_{30}	D_{10}	% Gravel	% Sand	% Silt	% Clay
●	06	0.0 -	2	0.904	0.46		0.0	86.8	2.0	11.2

SB47 SG 18-20

PROJECT: 3030011

SITE: , NORTH CAROLINA

Terracon
521 Clemson Road
Columbia, South Carolina

PROJECT NUMBER: 73075016

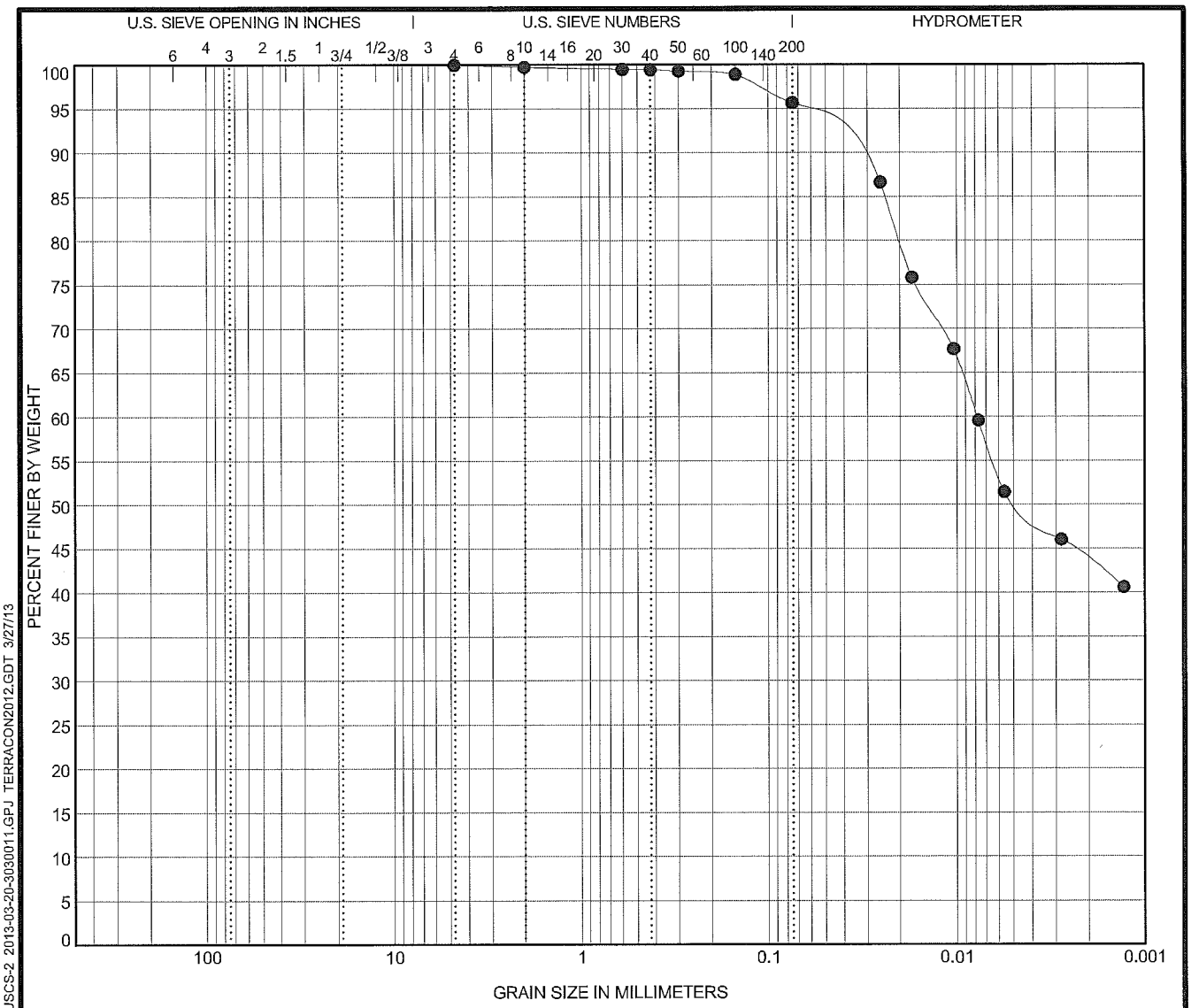
CLIENT: ACCESS ANALYTICAL

EXHIBIT: B-6

LABORATORY TESTS ARE NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GRAIN SIZE: USCS-2 2013-03-20-3030011.GPJ TERRACON2012.GDT 3/27/13

GRAIN SIZE DISTRIBUTION

ASTM D422



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

	Boring ID	Depth (ft)	USCS Classification	LL	PL	PI	Cc	Cu
●	07	0.0 -						

	Boring ID	Depth (ft)	D_{100}	D_{60}	D_{30}	D_{10}	% Gravel	% Sand	% Silt	% Clay
●	07	0.0 -	4.75	0.008			0.0	4.3	45.1	50.6

SB48 CS 6-8

PROJECT: 3030011

SITE: , NORTH CAROLINA

Terracon
521 Clemson Road
Columbia, South Carolina

PROJECT NUMBER: 73075016

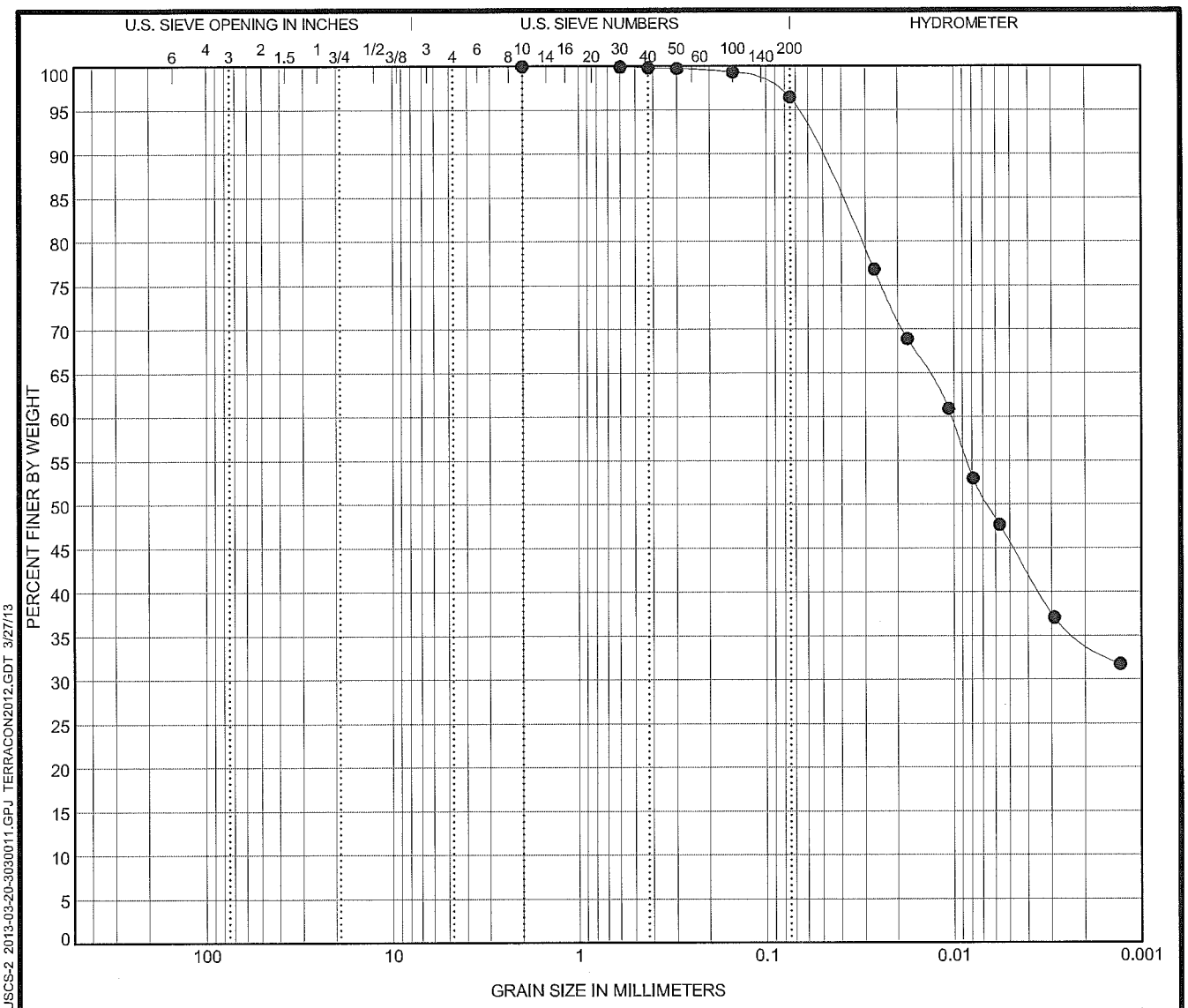
CLIENT: ACCESS ANALYTICAL

EXHIBIT: B-7

LABORATORY TESTS ARE NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GRAIN SIZE: USCS-2 2013-03-20-3030011.GPJ TERRACON2012.GDT 3/27/13

GRAIN SIZE DISTRIBUTION

ASTM D422



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Boring ID	Depth (ft)	USCS Classification	LL	PL	PI	Cc	Cu
08	0.0 -						

Boring ID	Depth (ft)	D_{100}	D_{60}	D_{30}	D_{10}	% Gravel	% Sand	% Silt	% Clay
08	0.0 -	2	0.01			0.0	3.5	50.9	45.6

SB48 CS 8-10

PROJECT: 3030011

SITE: , NORTH CAROLINA

Terracon
521 Clemson Road
Columbia, South Carolina

PROJECT NUMBER: 73075016

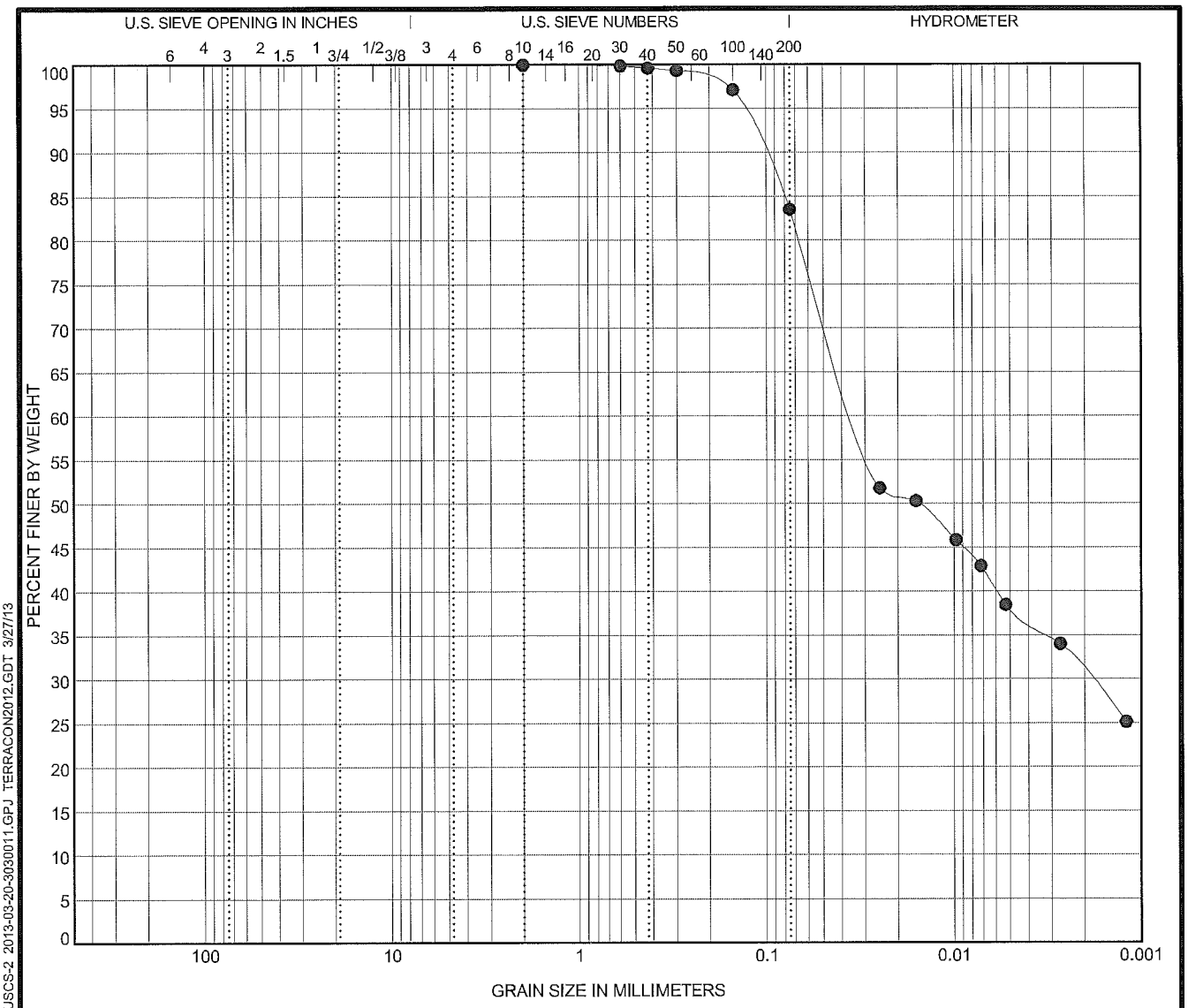
CLIENT: ACCESS ANALYTICAL

EXHIBIT: B-8

LABORATORY TESTS ARE NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GRAIN SIZE: USCS-2 2013-03-20-3030011.GPJ TERRACON2012.GDT 3/27/13

GRAIN SIZE DISTRIBUTION

ASTM D422



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

	Boring ID	Depth (ft)	USCS Classification	LL	PL	PI	Cc	Cu
●	09	0.0 -						

	Boring ID	Depth (ft)	D_{100}	D_{60}	D_{30}	D_{10}	% Gravel	% Sand	% Silt	% Clay
●	09	0.0 -	2	0.033	0.002		0.0	16.5	45.5	38.1

SB48 CS 10-12

PROJECT: 3030011

SITE: , NORTH CAROLINA

Terracon
521 Clemson Road
Columbia, South Carolina

PROJECT NUMBER: 73075016

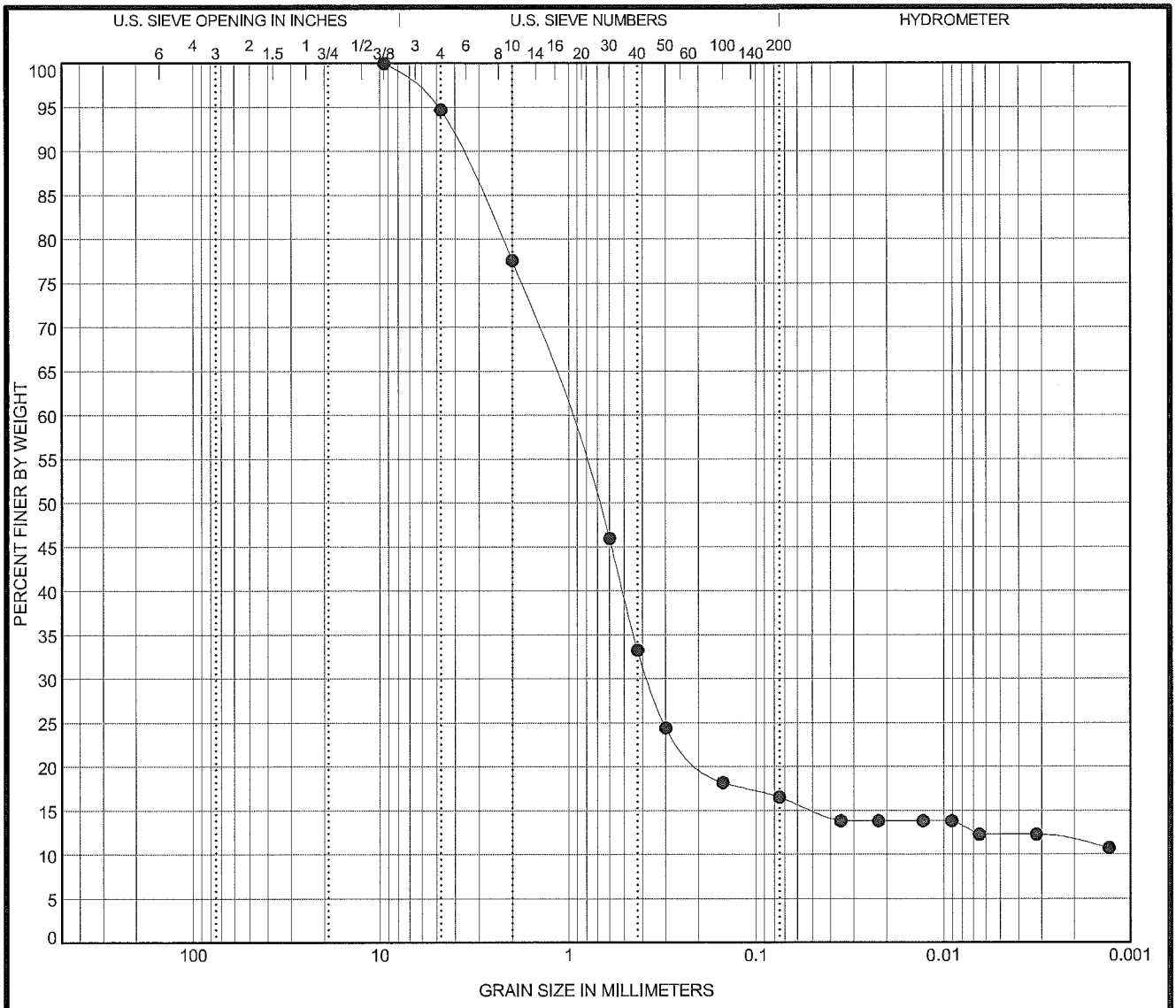
CLIENT: ACCESS ANALYTICAL

EXHIBIT: B-9

LABORATORY TESTS ARE NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GRAIN SIZE: USCS-2 2013-03-20-3030011.GPJ TERRACON2012.GDT 3/27/13

GRAIN SIZE DISTRIBUTION

ASTM D422



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

	Boring ID	Depth (ft)	USCS Classification	LL	PL	PI	Cc	Cu
●	10	0.0 -						

	Boring ID	Depth (ft)	D_{100}	D_{60}	D_{30}	D_{10}	% Gravel	% Sand	% Silt	% Clay
●	10	0.0 -	9.5	1.022	0.374		5.3	78.2	4.2	12.3

SB48 SG 16-18

PROJECT: 3030011

SITE: , NORTH CAROLINA

Terracon
521 Clemson Road
Columbia, South Carolina

PROJECT NUMBER: 73075016

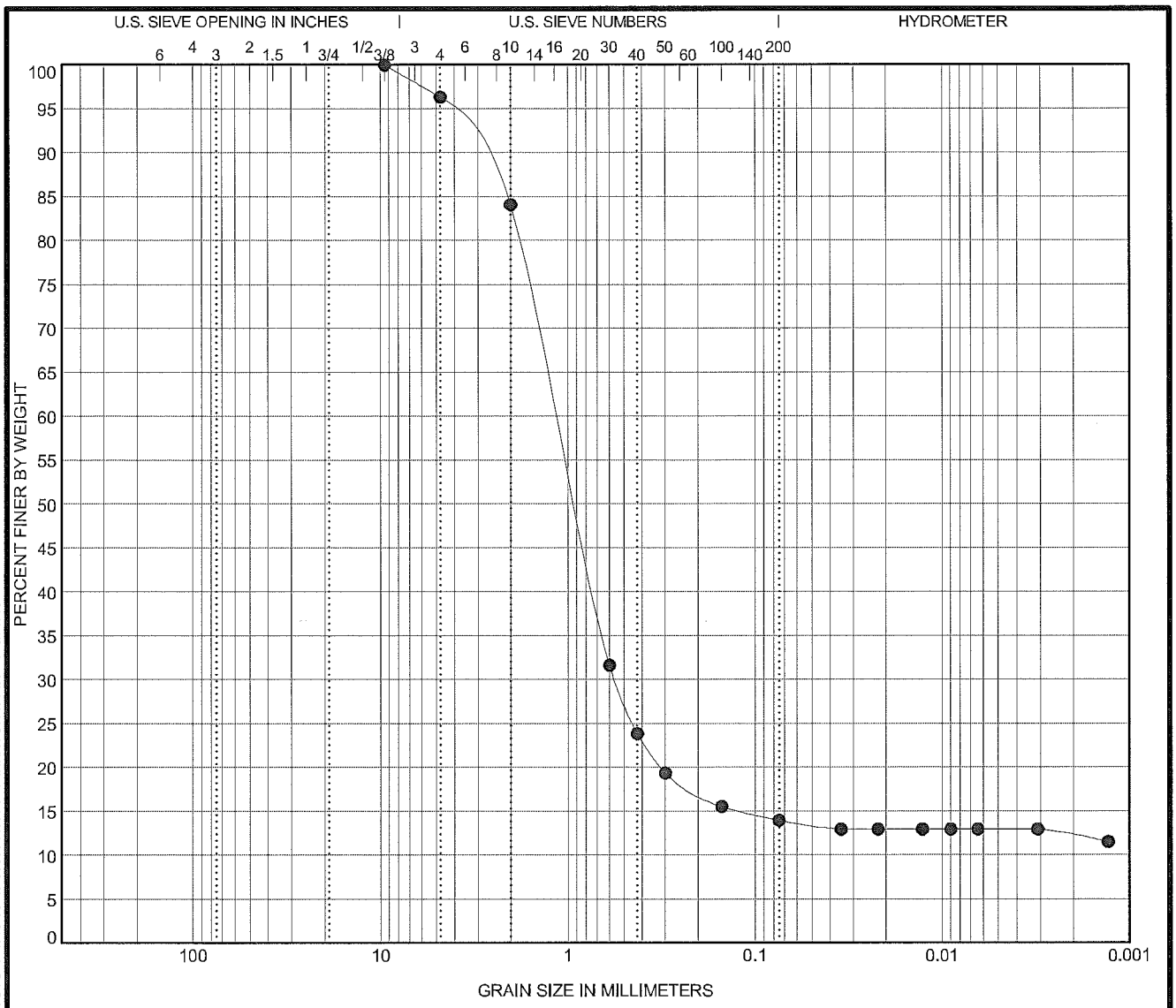
CLIENT: ACCESS ANALYTICAL

EXHIBIT: B-10

LABORATORY TESTS ARE NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GRAIN SIZE: USCS-2 2013-03-20-3030011.GPJ TERRACON2012.GDT 3/27/13

GRAIN SIZE DISTRIBUTION

ASTM D422



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

	Boring ID	Depth (ft)	USCS Classification	LL	PL	PI	Cc	Cu
●	11	0.0 -						

	Boring ID	Depth (ft)	D_{100}	D_{60}	D_{30}	D_{10}	% Gravel	% Sand	% Silt	% Clay
●	11	0.0 -	9.5	1.15	0.558		3.7	82.4	1.0	13.0

SB48 SG 18-20

PROJECT: 3030011

SITE: , NORTH CAROLINA

Terracon
521 Clemson Road
Columbia, South Carolina

PROJECT NUMBER: 73075016

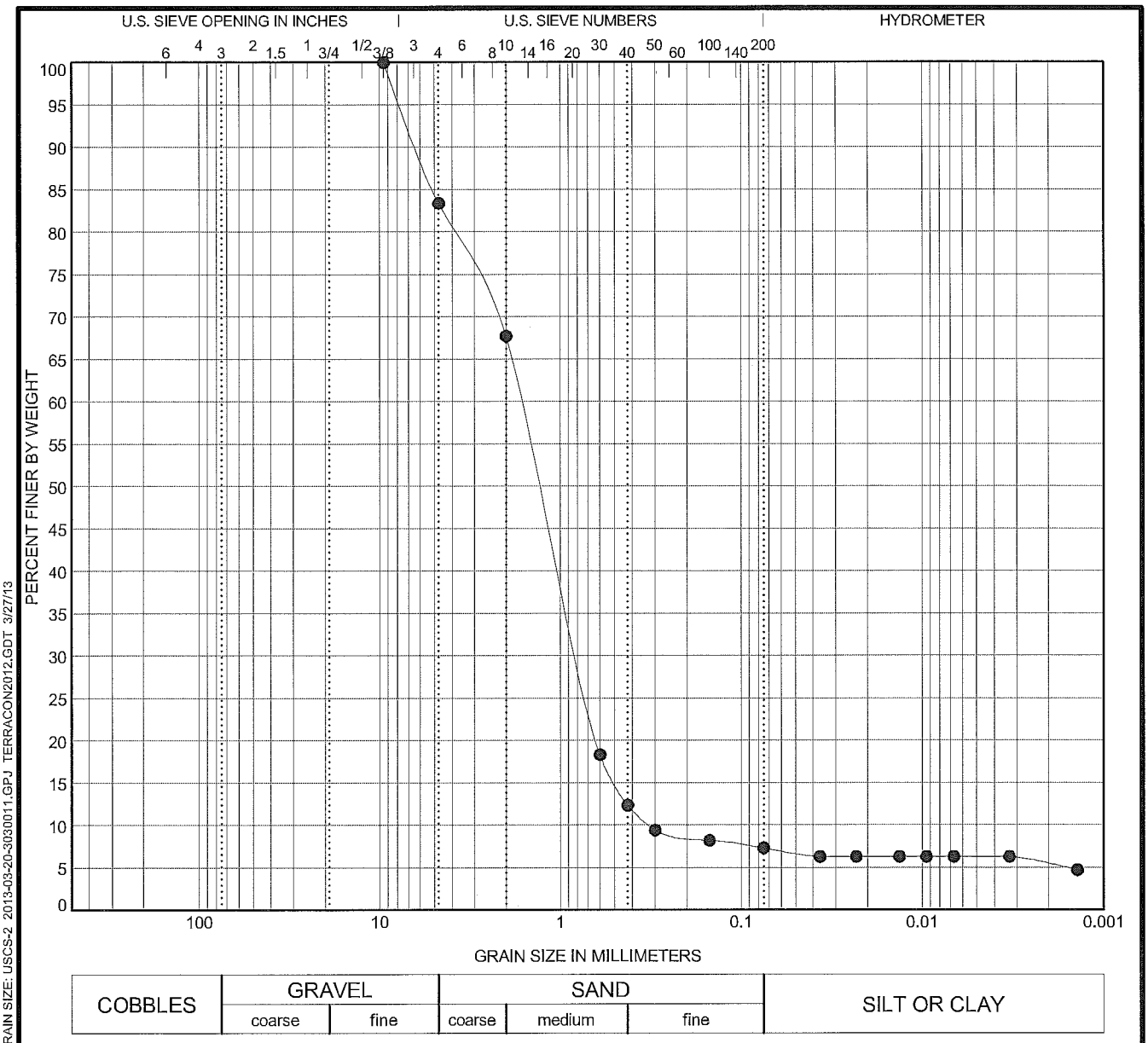
CLIENT: ACCESS ANALYTICAL

EXHIBIT: B-11

LABORATORY TESTS ARE NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GRAIN SIZE: USCS-2 2013-03-20-3030011.GPJ TERRACON2012.GDT 3/27/13

GRAIN SIZE DISTRIBUTION

ASTM D422



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

	Boring ID	Depth (ft)	USCS Classification	LL	PL	PI	Cc	Cu
●	12	0.0 -					1.20	5.16

	Boring ID	Depth (ft)	D_{100}	D_{60}	D_{30}	D_{10}	% Gravel	% Sand	% Silt	% Clay
●	12	0.0 -	9.5	1.656	0.797	0.321	16.6	76.1	1.0	6.3

SB48 SG 20-22

PROJECT: 3030011

SITE: , NORTH CAROLINA

Terracon
521 Clemson Road
Columbia, South Carolina

PROJECT NUMBER: 73075016

CLIENT: ACCESS ANALYTICAL

EXHIBIT: B-12

LABORATORY TESTS ARE NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GRAIN SIZE: USCS-2 2013-03-20-3030011.GPJ TERRACON2012.GDT 3/27/13

Case Narrative

03/13/2013

Solutions-IES, Inc.
Jody Overmyer
1101 Nowell Road
Raleigh, NC 27607

Project: Eaton Selma

Lab Submittal Date: 03/01/2013
Prism Work Order: 3030030

This data package contains the analytical results for the project identified above and includes a Case Narrative, Sample Results and Chain of Custody. Unless otherwise noted, all samples were received in acceptable condition and processed according to the referenced methods.

Data qualifiers are flagged individually on each sample. A key reference for the data qualifiers appears at the end of this case narrative.

Please call if you have any questions relating to this analytical report.

Respectfully,

PRISM LABORATORIES, INC.

VP Laboratory Services

Peggy J Kendall

Reviewed By

Data Qualifiers Key Reference:

HT	Sample received and analyzed outside of the hold time.
J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
BRL	Below Reporting Limit
MDL	Method Detection Limit
RPD	Relative Percent Difference
*	Results reported to the reporting limit. All other results are reported to the MDL with values between MDL and reporting limit indicated with a J.

This report should not be reproduced, except in its entirety, without the written consent of Prism Laboratories, Inc.

449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

Sample Receipt Summary

03/13/2013

Prism Work Order: 3030030

Client Sample ID	Lab Sample ID	Matrix	Date Sampled	Date Received
TMW-30-15	3030030-01	Water	02/27/13	03/01/13
TMW-30-20	3030030-02	Water	02/27/13	03/01/13
TMW-30-25	3030030-03	Water	02/27/13	03/01/13
TMW-30-28	3030030-04	Water	02/27/13	03/01/13

Samples received in good condition at 5.8 degrees C unless otherwise noted.

This report should not be reproduced, except in its entirety, without the written consent of Prism Laboratories, Inc.

449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

Summary of Detections

03/13/2013

Prism Work Order: 3030030

Prism ID	Client ID	Parameter	Method	Result		Units
3030030-01	TMW-30-15	1,1,1,2-Tetrachloroethane	8260B	0.41	J	ug/L
3030030-01	TMW-30-15	1,1,1-Trichloroethane	8260B	72		ug/L
3030030-01	TMW-30-15	1,1,2-Trichloroethane	8260B	0.84		ug/L
3030030-01	TMW-30-15	1,1-Dichloroethane	8260B	7.6		ug/L
3030030-01	TMW-30-15	1,1-Dichloroethylene	8260B	670		ug/L
3030030-01	TMW-30-15	1,2-Dichlorobenzene	8260B	2.1		ug/L
3030030-01	TMW-30-15	1,2-Dichloroethane	8260B	0.44	J	ug/L
3030030-01	TMW-30-15	Chloroform	8260B	4.5		ug/L
3030030-01	TMW-30-15	cis-1,2-Dichloroethylene	8260B	16		ug/L
3030030-01	TMW-30-15	m,p-Xylenes	8260B	0.45	J	ug/L
3030030-01	TMW-30-15	Tetrachloroethylene	8260B	4900		ug/L
3030030-01	TMW-30-15	Trichloroethylene	8260B	480		ug/L
3030030-01	TMW-30-15	Trichlorofluoromethane	8260B	17		ug/L
3030030-01	TMW-30-15	Vinyl chloride	8260B	2.4		ug/L
3030030-02	TMW-30-20	Acidity	*SM2310 B	33		mg/L
3030030-02	TMW-30-20	pH	*SM4500-H B	6.4	HT	pH Units
3030030-02	TMW-30-20	Total Alkalinity	*SM2320 B	30		mg/L
3030030-02	TMW-30-20	1,1,1,2-Tetrachloroethane	8260B	0.62		ug/L
3030030-02	TMW-30-20	1,1,1-Trichloroethane	8260B	1.8		ug/L
3030030-02	TMW-30-20	1,1,2-Trichloroethane	8260B	0.96		ug/L
3030030-02	TMW-30-20	1,1-Dichloroethane	8260B	4.0		ug/L
3030030-02	TMW-30-20	1,1-Dichloroethylene	8260B	1000		ug/L
3030030-02	TMW-30-20	1,2-Dichlorobenzene	8260B	0.86		ug/L
3030030-02	TMW-30-20	1,2-Dichloroethane	8260B	0.49	J	ug/L
3030030-02	TMW-30-20	Carbon Tetrachloride	8260B	18		ug/L
3030030-02	TMW-30-20	Chloroform	8260B	5.1		ug/L
3030030-02	TMW-30-20	cis-1,2-Dichloroethylene	8260B	0.97		ug/L
3030030-02	TMW-30-20	m,p-Xylenes	8260B	0.27	J	ug/L
3030030-02	TMW-30-20	Tetrachloroethylene	8260B	10000		ug/L
3030030-02	TMW-30-20	Trichloroethylene	8260B	700		ug/L
3030030-02	TMW-30-20	Trichlorofluoromethane	8260B	28		ug/L
3030030-03	TMW-30-25	1,1,1,2-Tetrachloroethane	8260B	1.1		ug/L
3030030-03	TMW-30-25	1,1,1-Trichloroethane	8260B	2.7		ug/L
3030030-03	TMW-30-25	1,1,2-Trichloroethane	8260B	1.7		ug/L
3030030-03	TMW-30-25	1,1-Dichloroethane	8260B	3.5		ug/L
3030030-03	TMW-30-25	1,1-Dichloroethylene	8260B	1800		ug/L
3030030-03	TMW-30-25	1,2-Dichlorobenzene	8260B	2.3		ug/L
3030030-03	TMW-30-25	1,2-Dichloroethane	8260B	0.80		ug/L
3030030-03	TMW-30-25	Acetone	8260B	1.9	J	ug/L
3030030-03	TMW-30-25	Carbon Tetrachloride	8260B	18		ug/L
3030030-03	TMW-30-25	Chloroform	8260B	6.9		ug/L
3030030-03	TMW-30-25	cis-1,2-Dichloroethylene	8260B	0.55		ug/L
3030030-03	TMW-30-25	m,p-Xylenes	8260B	1.2		ug/L
3030030-03	TMW-30-25	Methylene Chloride	8260B	0.74	J	ug/L

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Summary of Detections

03/13/2013

Prism Work Order: 3030030

Prism ID	Client ID	Parameter	Method	Result		Units
3030030-03	TMW-30-25	o-Xylene	8260B	1.1		ug/L
3030030-03	TMW-30-25	Tetrachloroethylene	8260B	11000		ug/L
3030030-03	TMW-30-25	Trichloroethylene	8260B	1000		ug/L
3030030-03	TMW-30-25	Trichlorofluoromethane	8260B	43		ug/L
3030030-04	TMW-30-28	1,1,1,2-Tetrachloroethane	8260B	1.2		ug/L
3030030-04	TMW-30-28	1,1,1-Trichloroethane	8260B	2.6		ug/L
3030030-04	TMW-30-28	1,1,2-Trichloroethane	8260B	1.6		ug/L
3030030-04	TMW-30-28	1,1-Dichloroethane	8260B	3.4		ug/L
3030030-04	TMW-30-28	1,1-Dichloroethylene	8260B	2000		ug/L
3030030-04	TMW-30-28	1,2-Dichlorobenzene	8260B	2.0		ug/L
3030030-04	TMW-30-28	1,2-Dichloroethane	8260B	0.80		ug/L
3030030-04	TMW-30-28	Carbon Tetrachloride	8260B	21		ug/L
3030030-04	TMW-30-28	Chloroform	8260B	4.7		ug/L
3030030-04	TMW-30-28	cis-1,2-Dichloroethylene	8260B	0.45	J	ug/L
3030030-04	TMW-30-28	m,p-Xylenes	8260B	1.3		ug/L
3030030-04	TMW-30-28	Methylene Chloride	8260B	0.69	J	ug/L
3030030-04	TMW-30-28	o-Xylene	8260B	1.2		ug/L
3030030-04	TMW-30-28	Tetrachloroethylene	8260B	10000		ug/L
3030030-04	TMW-30-28	Trichloroethylene	8260B	1100		ug/L
3030030-04	TMW-30-28	Trichlorofluoromethane	8260B	41		ug/L

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Solutions-IES, Inc.
Attn: Jody Overmyer
1101 Nowell Road
Raleigh, NC 27607

Project: Eaton Selma

Sample Matrix: Water

Client Sample ID: TMW-30-15
Prism Sample ID: 3030030-01
Prism Work Order: 3030030
Time Collected: 02/27/13 15:50
Time Submitted: 03/01/13 10:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	**0.41 J**	**ug/L**	**0.50**	**0.15**	**1**	**8260B**	**3/2/13 20:22**	**VHL**	**P3C0035**
1,1,1-Trichloroethane	**72**	**ug/L**	**0.50**	**0.063**	**1**	**8260B**	**3/2/13 20:22**	**VHL**	**P3C0035**
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.071	1	8260B	3/2/13 20:22	VHL	P3C0035
1,1,2-Trichloroethane	**0.84**	**ug/L**	**0.50**	**0.17**	**1**	**8260B**	**3/2/13 20:22**	**VHL**	**P3C0035**
1,1-Dichloroethane	**7.6**	**ug/L**	**0.50**	**0.096**	**1**	**8260B**	**3/2/13 20:22**	**VHL**	**P3C0035**
1,1-Dichloroethylene	**670**	**ug/L**	**50**	**7.8**	**100**	**8260B**	**3/4/13 16:13**	**VHL**	**P3C0035**
1,1-Dichloropropylene	BRL	ug/L	0.50	0.061	1	8260B	3/2/13 20:22	VHL	P3C0035
1,2,3-Trichlorobenzene	BRL	ug/L	2.0	0.20	1	8260B	3/2/13 20:22	VHL	P3C0035
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.081	1	8260B	3/2/13 20:22	VHL	P3C0035
1,2,4-Trichlorobenzene	BRL	ug/L	1.0	0.10	1	8260B	3/2/13 20:22	VHL	P3C0035
1,2,4-Trimethylbenzene	BRL	ug/L	0.50	0.048	1	8260B	3/2/13 20:22	VHL	P3C0035
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.59	1	8260B	3/2/13 20:22	VHL	P3C0035
1,2-Dibromoethane	BRL	ug/L	0.50	0.14	1	8260B	3/2/13 20:22	VHL	P3C0035
1,2-Dichlorobenzene	**2.1**	**ug/L**	**0.50**	**0.076**	**1**	**8260B**	**3/2/13 20:22**	**VHL**	**P3C0035**
1,2-Dichloroethane	**0.44 J**	**ug/L**	**0.50**	**0.14**	**1**	**8260B**	**3/2/13 20:22**	**VHL**	**P3C0035**
1,2-Dichloropropane	BRL	ug/L	0.50	0.13	1	8260B	3/2/13 20:22	VHL	P3C0035
1,3,5-Trimethylbenzene	BRL	ug/L	0.50	0.057	1	8260B	3/2/13 20:22	VHL	P3C0035
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.074	1	8260B	3/2/13 20:22	VHL	P3C0035
1,3-Dichloropropane	BRL	ug/L	0.50	0.11	1	8260B	3/2/13 20:22	VHL	P3C0035
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.068	1	8260B	3/2/13 20:22	VHL	P3C0035
2,2-Dichloropropane	BRL	ug/L	2.0	0.11	1	8260B	3/2/13 20:22	VHL	P3C0035
2-Chloroethyl Vinyl Ether	BRL	ug/L	2.0	0.22	1	8260B	3/2/13 20:22	VHL	P3C0035
2-Chlorotoluene	BRL	ug/L	0.50	0.038	1	8260B	3/2/13 20:22	VHL	P3C0035
4-Chlorotoluene	BRL	ug/L	0.50	0.053	1	8260B	3/2/13 20:22	VHL	P3C0035
4-Isopropyltoluene	BRL	ug/L	0.50	0.065	1	8260B	3/2/13 20:22	VHL	P3C0035
Acetone	BRL	ug/L	5.0	0.62	1	8260B	3/2/13 20:22	VHL	P3C0035
Acrolein	BRL	ug/L	20	1.1	1	8260B	3/2/13 20:22	VHL	P3C0035
Acrylonitrile	BRL	ug/L	20	0.86	1	8260B	3/2/13 20:22	VHL	P3C0035
Benzene	BRL	ug/L	0.50	0.072	1	8260B	3/2/13 20:22	VHL	P3C0035
Bromobenzene	BRL	ug/L	0.50	0.064	1	8260B	3/2/13 20:22	VHL	P3C0035
Bromochloromethane	BRL	ug/L	0.50	0.13	1	8260B	3/2/13 20:22	VHL	P3C0035
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	8260B	3/2/13 20:22	VHL	P3C0035
Bromoform	BRL	ug/L	1.0	0.27	1	8260B	3/2/13 20:22	VHL	P3C0035
Bromomethane	BRL	ug/L	1.0	0.47	1	8260B	3/2/13 20:22	VHL	P3C0035
Carbon disulfide	BRL	ug/L	5.0	1.4	1	8260B	3/2/13 20:22	VHL	P3C0035
Carbon Tetrachloride	BRL	ug/L	0.50	0.12	1	8260B	3/2/13 20:22	VHL	P3C0035
Chlorobenzene	BRL	ug/L	0.50	0.061	1	8260B	3/2/13 20:22	VHL	P3C0035
Chloroethane	BRL	ug/L	0.50	0.13	1	8260B	3/2/13 20:22	VHL	P3C0035
Chloroform	**4.5**	**ug/L**	**0.50**	**0.089**	**1**	**8260B**	**3/2/13 20:22**	**VHL**	**P3C0035**
Chloromethane	BRL	ug/L	0.50	0.11	1	8260B	3/2/13 20:22	VHL	P3C0035
cis-1,2-Dichloroethylene	**16**	**ug/L**	**0.50**	**0.076**	**1**	**8260B**	**3/2/13 20:22**	**VHL**	**P3C0035**
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.10	1	8260B	3/2/13 20:22	VHL	P3C0035

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Solutions-IES, Inc.
Attn: Jody Overmyer
1101 Nowell Road
Raleigh, NC 27607

Project: Eaton Selma

Sample Matrix: Water

Client Sample ID: TMW-30-15
Prism Sample ID: 3030030-01
Prism Work Order: 3030030
Time Collected: 02/27/13 15:50
Time Submitted: 03/01/13 10:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Dibromochloromethane	BRL	ug/L	0.50	0.30	1	8260B	3/2/13 20:22	VHL	P3C0035
Dibromomethane	BRL	ug/L	0.50	0.13	1	8260B	3/2/13 20:22	VHL	P3C0035
Dichlorodifluoromethane	BRL	ug/L	1.0	0.11	1	8260B	3/2/13 20:22	VHL	P3C0035
Ethylbenzene	BRL	ug/L	0.50	0.067	1	8260B	3/2/13 20:22	VHL	P3C0035
Hexachlorobutadiene	BRL	ug/L	2.0	0.36	1	8260B	3/2/13 20:22	VHL	P3C0035
Isopropyl Ether	BRL	ug/L	0.50	0.043	1	8260B	3/2/13 20:22	VHL	P3C0035
Isopropylbenzene (Cumene)	BRL	ug/L	0.50	0.072	1	8260B	3/2/13 20:22	VHL	P3C0035
m,p-Xylenes	**0.45 J**	**ug/L**	**1.0**	**0.081**	**1**	**8260B**	**3/2/13 20:22**	**VHL**	**P3C0035**
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.19	1	8260B	3/2/13 20:22	VHL	P3C0035
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.90	1	8260B	3/2/13 20:22	VHL	P3C0035
Methyl Isobutyl Ketone	BRL	ug/L	5.0	0.12	1	8260B	3/2/13 20:22	VHL	P3C0035
Methylene Chloride	BRL	ug/L	1.0	0.44	1	8260B	3/2/13 20:22	VHL	P3C0035
Methyl-tert-Butyl Ether	BRL	ug/L	0.50	0.070	1	8260B	3/2/13 20:22	VHL	P3C0035
Naphthalene	BRL	ug/L	1.0	0.098	1	8260B	3/2/13 20:22	VHL	P3C0035
n-Butylbenzene	BRL	ug/L	1.0	0.11	1	8260B	3/2/13 20:22	VHL	P3C0035
n-Propylbenzene	BRL	ug/L	0.50	0.060	1	8260B	3/2/13 20:22	VHL	P3C0035
o-Xylene	BRL	ug/L	0.50	0.046	1	8260B	3/2/13 20:22	VHL	P3C0035
sec-Butylbenzene	BRL	ug/L	0.50	0.087	1	8260B	3/2/13 20:22	VHL	P3C0035
Styrene	BRL	ug/L	0.50	0.047	1	8260B	3/2/13 20:22	VHL	P3C0035
tert-Butylbenzene	BRL	ug/L	0.50	0.080	1	8260B	3/2/13 20:22	VHL	P3C0035
Tetrachloroethylene	**4900**	**ug/L**	**50**	**6.9**	**100**	**8260B**	**3/4/13 16:13**	**VHL**	**P3C0035**
Toluene	BRL	ug/L	0.50	0.042	1	8260B	3/2/13 20:22	VHL	P3C0035
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.12	1	8260B	3/2/13 20:22	VHL	P3C0035
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.043	1	8260B	3/2/13 20:22	VHL	P3C0035
Trichloroethylene	**480**	**ug/L**	**50**	**5.4**	**100**	**8260B**	**3/4/13 16:13**	**VHL**	**P3C0035**
Trichlorofluoromethane	**17**	**ug/L**	**0.50**	**0.088**	**1**	**8260B**	**3/2/13 20:22**	**VHL**	**P3C0035**
Vinyl acetate	BRL	ug/L	2.0	0.10	1	8260B	3/2/13 20:22	VHL	P3C0035
Vinyl chloride	**2.4**	**ug/L**	**0.50**	**0.16**	**1**	**8260B**	**3/2/13 20:22**	**VHL**	**P3C0035**

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*117 %*	*80-124*
Dibromofluoromethane	*101 %*	*75-129*
Toluene-d8	*103 %*	*77-123*

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Solutions-IES, Inc.
Attn: Jody Overmyer
1101 Nowell Road
Raleigh, NC 27607

Project: Eaton Selma

Sample Matrix: Water

Client Sample ID: TMW-30-20
Prism Sample ID: 3030030-02
Prism Work Order: 3030030
Time Collected: 02/27/13 14:50
Time Submitted: 03/01/13 10:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
General Chemistry Parameters									
Acidity	**33**	**mg/L**	**5.0**	**0.13**	**1**	***SM2310 B**	**3/8/13 15:30**	**JAB**	**P3C0181**
pH	**6.4 HT**	**pH Units**			**1**	***SM4500-H B**	**3/5/13 16:50**	**MES**	**P3C0084**
Total Alkalinity	**30**	**mg/L**	**5.0**	**0.59**	**1**	***SM2320 B**	**3/1/13 17:00**	**MSV**	**P3C0027**
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	**0.62**	**ug/L**	**0.50**	**0.15**	**1**	**8260B**	**3/2/13 21:12**	**VHL**	**P3C0035**
1,1,1-Trichloroethane	**1.8**	**ug/L**	**0.50**	**0.063**	**1**	**8260B**	**3/2/13 21:12**	**VHL**	**P3C0035**
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.071	1	8260B	3/2/13 21:12	VHL	P3C0035
1,1,2-Trichloroethane	**0.96**	**ug/L**	**0.50**	**0.17**	**1**	**8260B**	**3/2/13 21:12**	**VHL**	**P3C0035**
1,1-Dichloroethane	**4.0**	**ug/L**	**0.50**	**0.096**	**1**	**8260B**	**3/2/13 21:12**	**VHL**	**P3C0035**
1,1-Dichloroethylene	**1000**	**ug/L**	**50**	**7.8**	**100**	**8260B**	**3/4/13 15:48**	**VHL**	**P3C0035**
1,1-Dichloropropylene	BRL	ug/L	0.50	0.061	1	8260B	3/2/13 21:12	VHL	P3C0035
1,2,3-Trichlorobenzene	BRL	ug/L	2.0	0.20	1	8260B	3/2/13 21:12	VHL	P3C0035
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.081	1	8260B	3/2/13 21:12	VHL	P3C0035
1,2,4-Trichlorobenzene	BRL	ug/L	1.0	0.10	1	8260B	3/2/13 21:12	VHL	P3C0035
1,2,4-Trimethylbenzene	BRL	ug/L	0.50	0.048	1	8260B	3/2/13 21:12	VHL	P3C0035
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.59	1	8260B	3/2/13 21:12	VHL	P3C0035
1,2-Dibromoethane	BRL	ug/L	0.50	0.14	1	8260B	3/2/13 21:12	VHL	P3C0035
1,2-Dichlorobenzene	**0.86**	**ug/L**	**0.50**	**0.076**	**1**	**8260B**	**3/2/13 21:12**	**VHL**	**P3C0035**
1,2-Dichloroethane	**0.49 J**	**ug/L**	**0.50**	**0.14**	**1**	**8260B**	**3/2/13 21:12**	**VHL**	**P3C0035**
1,2-Dichloropropane	BRL	ug/L	0.50	0.13	1	8260B	3/2/13 21:12	VHL	P3C0035
1,3,5-Trimethylbenzene	BRL	ug/L	0.50	0.057	1	8260B	3/2/13 21:12	VHL	P3C0035
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.074	1	8260B	3/2/13 21:12	VHL	P3C0035
1,3-Dichloropropane	BRL	ug/L	0.50	0.11	1	8260B	3/2/13 21:12	VHL	P3C0035
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.068	1	8260B	3/2/13 21:12	VHL	P3C0035
2,2-Dichloropropane	BRL	ug/L	2.0	0.11	1	8260B	3/2/13 21:12	VHL	P3C0035
2-Chloroethyl Vinyl Ether	BRL	ug/L	2.0	0.22	1	8260B	3/2/13 21:12	VHL	P3C0035
2-Chlorotoluene	BRL	ug/L	0.50	0.038	1	8260B	3/2/13 21:12	VHL	P3C0035
4-Chlorotoluene	BRL	ug/L	0.50	0.053	1	8260B	3/2/13 21:12	VHL	P3C0035
4-Isopropyltoluene	BRL	ug/L	0.50	0.065	1	8260B	3/2/13 21:12	VHL	P3C0035
Acetone	BRL	ug/L	5.0	0.62	1	8260B	3/2/13 21:12	VHL	P3C0035
Acrolein	BRL	ug/L	20	1.1	1	8260B	3/2/13 21:12	VHL	P3C0035
Acrylonitrile	BRL	ug/L	20	0.86	1	8260B	3/2/13 21:12	VHL	P3C0035
Benzene	BRL	ug/L	0.50	0.072	1	8260B	3/2/13 21:12	VHL	P3C0035
Bromobenzene	BRL	ug/L	0.50	0.064	1	8260B	3/2/13 21:12	VHL	P3C0035
Bromochloromethane	BRL	ug/L	0.50	0.13	1	8260B	3/2/13 21:12	VHL	P3C0035
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	8260B	3/2/13 21:12	VHL	P3C0035
Bromoform	BRL	ug/L	1.0	0.27	1	8260B	3/2/13 21:12	VHL	P3C0035
Bromomethane	BRL	ug/L	1.0	0.47	1	8260B	3/2/13 21:12	VHL	P3C0035
Carbon disulfide	BRL	ug/L	5.0	1.4	1	8260B	3/2/13 21:12	VHL	P3C0035
Carbon Tetrachloride	**18**	**ug/L**	**0.50**	**0.12**	**1**	**8260B**	**3/2/13 21:12**	**VHL**	**P3C0035**
Chlorobenzene	BRL	ug/L	0.50	0.061	1	8260B	3/2/13 21:12	VHL	P3C0035

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449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
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Solutions-IES, Inc.
Attn: Jody Overmyer
1101 Nowell Road
Raleigh, NC 27607

Project: Eaton Selma

Sample Matrix: Water

Client Sample ID: TMW-30-20
Prism Sample ID: 3030030-02
Prism Work Order: 3030030
Time Collected: 02/27/13 14:50
Time Submitted: 03/01/13 10:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Chloroethane	BRL	ug/L	0.50	0.13	1	8260B	3/2/13 21:12	VHL	P3C0035
Chloroform	**5.1**	**ug/L**	**0.50**	**0.089**	**1**	**8260B**	**3/2/13 21:12**	**VHL**	**P3C0035**
Chloromethane	BRL	ug/L	0.50	0.11	1	8260B	3/2/13 21:12	VHL	P3C0035
cis-1,2-Dichloroethylene	**0.97**	**ug/L**	**0.50**	**0.076**	**1**	**8260B**	**3/2/13 21:12**	**VHL**	**P3C0035**
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.10	1	8260B	3/2/13 21:12	VHL	P3C0035
Dibromochloromethane	BRL	ug/L	0.50	0.30	1	8260B	3/2/13 21:12	VHL	P3C0035
Dibromomethane	BRL	ug/L	0.50	0.13	1	8260B	3/2/13 21:12	VHL	P3C0035
Dichlorodifluoromethane	BRL	ug/L	1.0	0.11	1	8260B	3/2/13 21:12	VHL	P3C0035
Ethylbenzene	BRL	ug/L	0.50	0.067	1	8260B	3/2/13 21:12	VHL	P3C0035
Hexachlorobutadiene	BRL	ug/L	2.0	0.36	1	8260B	3/2/13 21:12	VHL	P3C0035
Isopropyl Ether	BRL	ug/L	0.50	0.043	1	8260B	3/2/13 21:12	VHL	P3C0035
Isopropylbenzene (Cumene)	BRL	ug/L	0.50	0.072	1	8260B	3/2/13 21:12	VHL	P3C0035
m,p-Xylenes	**0.27 J**	**ug/L**	**1.0**	**0.081**	**1**	**8260B**	**3/2/13 21:12**	**VHL**	**P3C0035**
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.19	1	8260B	3/2/13 21:12	VHL	P3C0035
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.90	1	8260B	3/2/13 21:12	VHL	P3C0035
Methyl Isobutyl Ketone	BRL	ug/L	5.0	0.12	1	8260B	3/2/13 21:12	VHL	P3C0035
Methylene Chloride	BRL	ug/L	1.0	0.44	1	8260B	3/2/13 21:12	VHL	P3C0035
Methyl-tert-Butyl Ether	BRL	ug/L	0.50	0.070	1	8260B	3/2/13 21:12	VHL	P3C0035
Naphthalene	BRL	ug/L	1.0	0.098	1	8260B	3/2/13 21:12	VHL	P3C0035
n-Butylbenzene	BRL	ug/L	1.0	0.11	1	8260B	3/2/13 21:12	VHL	P3C0035
n-Propylbenzene	BRL	ug/L	0.50	0.060	1	8260B	3/2/13 21:12	VHL	P3C0035
o-Xylene	BRL	ug/L	0.50	0.046	1	8260B	3/2/13 21:12	VHL	P3C0035
sec-Butylbenzene	BRL	ug/L	0.50	0.087	1	8260B	3/2/13 21:12	VHL	P3C0035
Styrene	BRL	ug/L	0.50	0.047	1	8260B	3/2/13 21:12	VHL	P3C0035
tert-Butylbenzene	BRL	ug/L	0.50	0.080	1	8260B	3/2/13 21:12	VHL	P3C0035
Tetrachloroethylene	**10000**	**ug/L**	**50**	**6.9**	**100**	**8260B**	**3/4/13 15:48**	**VHL**	**P3C0035**
Toluene	BRL	ug/L	0.50	0.042	1	8260B	3/2/13 21:12	VHL	P3C0035
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.12	1	8260B	3/2/13 21:12	VHL	P3C0035
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.043	1	8260B	3/2/13 21:12	VHL	P3C0035
Trichloroethylene	**700**	**ug/L**	**50**	**5.4**	**100**	**8260B**	**3/4/13 15:48**	**VHL**	**P3C0035**
Trichlorofluoromethane	**28**	**ug/L**	**0.50**	**0.088**	**1**	**8260B**	**3/2/13 21:12**	**VHL**	**P3C0035**
Vinyl acetate	BRL	ug/L	2.0	0.10	1	8260B	3/2/13 21:12	VHL	P3C0035
Vinyl chloride	BRL	ug/L	0.50	0.16	1	8260B	3/2/13 21:12	VHL	P3C0035

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*119 %*	*80-124*
Dibromofluoromethane	*101 %*	*75-129*
Toluene-d8	*103 %*	*77-123*

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Solutions-IES, Inc.
Attn: Jody Overmyer
1101 Nowell Road
Raleigh, NC 27607

Project: Eaton Selma

Sample Matrix: Water

Client Sample ID: TMW-30-25
Prism Sample ID: 3030030-03
Prism Work Order: 3030030
Time Collected: 02/27/13 14:30
Time Submitted: 03/01/13 10:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	**1.1**	**ug/L**	**0.50**	**0.15**	**1**	**8260B**	**3/2/13 22:03**	**VHL**	**P3C0035**
1,1,1-Trichloroethane	**2.7**	**ug/L**	**0.50**	**0.063**	**1**	**8260B**	**3/2/13 22:03**	**VHL**	**P3C0035**
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.071	1	8260B	3/2/13 22:03	VHL	P3C0035
1,1,2-Trichloroethane	**1.7**	**ug/L**	**0.50**	**0.17**	**1**	**8260B**	**3/2/13 22:03**	**VHL**	**P3C0035**
1,1-Dichloroethane	**3.5**	**ug/L**	**0.50**	**0.096**	**1**	**8260B**	**3/2/13 22:03**	**VHL**	**P3C0035**
1,1-Dichloroethylene	**1800**	**ug/L**	**50**	**7.8**	**100**	**8260B**	**3/4/13 15:23**	**VHL**	**P3C0035**
1,1-Dichloropropylene	BRL	ug/L	0.50	0.061	1	8260B	3/2/13 22:03	VHL	P3C0035
1,2,3-Trichlorobenzene	BRL	ug/L	2.0	0.20	1	8260B	3/2/13 22:03	VHL	P3C0035
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.081	1	8260B	3/2/13 22:03	VHL	P3C0035
1,2,4-Trichlorobenzene	BRL	ug/L	1.0	0.10	1	8260B	3/2/13 22:03	VHL	P3C0035
1,2,4-Trimethylbenzene	BRL	ug/L	0.50	0.048	1	8260B	3/2/13 22:03	VHL	P3C0035
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.59	1	8260B	3/2/13 22:03	VHL	P3C0035
1,2-Dibromoethane	BRL	ug/L	0.50	0.14	1	8260B	3/2/13 22:03	VHL	P3C0035
1,2-Dichlorobenzene	**2.3**	**ug/L**	**0.50**	**0.076**	**1**	**8260B**	**3/2/13 22:03**	**VHL**	**P3C0035**
1,2-Dichloroethane	**0.80**	**ug/L**	**0.50**	**0.14**	**1**	**8260B**	**3/2/13 22:03**	**VHL**	**P3C0035**
1,2-Dichloropropane	BRL	ug/L	0.50	0.13	1	8260B	3/2/13 22:03	VHL	P3C0035
1,3,5-Trimethylbenzene	BRL	ug/L	0.50	0.057	1	8260B	3/2/13 22:03	VHL	P3C0035
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.074	1	8260B	3/2/13 22:03	VHL	P3C0035
1,3-Dichloropropane	BRL	ug/L	0.50	0.11	1	8260B	3/2/13 22:03	VHL	P3C0035
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.068	1	8260B	3/2/13 22:03	VHL	P3C0035
2,2-Dichloropropane	BRL	ug/L	2.0	0.11	1	8260B	3/2/13 22:03	VHL	P3C0035
2-Chloroethyl Vinyl Ether	BRL	ug/L	2.0	0.22	1	8260B	3/2/13 22:03	VHL	P3C0035
2-Chlorotoluene	BRL	ug/L	0.50	0.038	1	8260B	3/2/13 22:03	VHL	P3C0035
4-Chlorotoluene	BRL	ug/L	0.50	0.053	1	8260B	3/2/13 22:03	VHL	P3C0035
4-Isopropyltoluene	BRL	ug/L	0.50	0.065	1	8260B	3/2/13 22:03	VHL	P3C0035
Acetone	**1.9 J**	**ug/L**	**5.0**	**0.62**	**1**	**8260B**	**3/2/13 22:03**	**VHL**	**P3C0035**
Acrolein	BRL	ug/L	20	1.1	1	8260B	3/2/13 22:03	VHL	P3C0035
Acrylonitrile	BRL	ug/L	20	0.86	1	8260B	3/2/13 22:03	VHL	P3C0035
Benzene	BRL	ug/L	0.50	0.072	1	8260B	3/2/13 22:03	VHL	P3C0035
Bromobenzene	BRL	ug/L	0.50	0.064	1	8260B	3/2/13 22:03	VHL	P3C0035
Bromochloromethane	BRL	ug/L	0.50	0.13	1	8260B	3/2/13 22:03	VHL	P3C0035
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	8260B	3/2/13 22:03	VHL	P3C0035
Bromoform	BRL	ug/L	1.0	0.27	1	8260B	3/2/13 22:03	VHL	P3C0035
Bromomethane	BRL	ug/L	1.0	0.47	1	8260B	3/2/13 22:03	VHL	P3C0035
Carbon disulfide	BRL	ug/L	5.0	1.4	1	8260B	3/2/13 22:03	VHL	P3C0035
Carbon Tetrachloride	**18**	**ug/L**	**0.50**	**0.12**	**1**	**8260B**	**3/2/13 22:03**	**VHL**	**P3C0035**
Chlorobenzene	BRL	ug/L	0.50	0.061	1	8260B	3/2/13 22:03	VHL	P3C0035
Chloroethane	BRL	ug/L	0.50	0.13	1	8260B	3/2/13 22:03	VHL	P3C0035
Chloroform	**6.9**	**ug/L**	**0.50**	**0.089**	**1**	**8260B**	**3/2/13 22:03**	**VHL**	**P3C0035**
Chloromethane	BRL	ug/L	0.50	0.11	1	8260B	3/2/13 22:03	VHL	P3C0035
cis-1,2-Dichloroethylene	**0.55**	**ug/L**	**0.50**	**0.076**	**1**	**8260B**	**3/2/13 22:03**	**VHL**	**P3C0035**

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Solutions-IES, Inc.
Attn: Jody Overmyer
1101 Nowell Road
Raleigh, NC 27607

Project: Eaton Selma

Sample Matrix: Water

Client Sample ID: TMW-30-25
Prism Sample ID: 3030030-03
Prism Work Order: 3030030
Time Collected: 02/27/13 14:30
Time Submitted: 03/01/13 10:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.10	1	8260B	3/2/13 22:03	VHL	P3C0035
Dibromochloromethane	BRL	ug/L	0.50	0.30	1	8260B	3/2/13 22:03	VHL	P3C0035
Dibromomethane	BRL	ug/L	0.50	0.13	1	8260B	3/2/13 22:03	VHL	P3C0035
Dichlorodifluoromethane	BRL	ug/L	1.0	0.11	1	8260B	3/2/13 22:03	VHL	P3C0035
Ethylbenzene	BRL	ug/L	0.50	0.067	1	8260B	3/2/13 22:03	VHL	P3C0035
Hexachlorobutadiene	BRL	ug/L	2.0	0.36	1	8260B	3/2/13 22:03	VHL	P3C0035
Isopropyl Ether	BRL	ug/L	0.50	0.043	1	8260B	3/2/13 22:03	VHL	P3C0035
Isopropylbenzene (Cumene)	BRL	ug/L	0.50	0.072	1	8260B	3/2/13 22:03	VHL	P3C0035
m,p-Xylenes	**1.2**	**ug/L**	**1.0**	**0.081**	**1**	**8260B**	**3/2/13 22:03**	**VHL**	**P3C0035**
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.19	1	8260B	3/2/13 22:03	VHL	P3C0035
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.90	1	8260B	3/2/13 22:03	VHL	P3C0035
Methyl Isobutyl Ketone	BRL	ug/L	5.0	0.12	1	8260B	3/2/13 22:03	VHL	P3C0035
Methylene Chloride	**0.74 J**	**ug/L**	**1.0**	**0.44**	**1**	**8260B**	**3/2/13 22:03**	**VHL**	**P3C0035**
Methyl-tert-Butyl Ether	BRL	ug/L	0.50	0.070	1	8260B	3/2/13 22:03	VHL	P3C0035
Naphthalene	BRL	ug/L	1.0	0.098	1	8260B	3/2/13 22:03	VHL	P3C0035
n-Butylbenzene	BRL	ug/L	1.0	0.11	1	8260B	3/2/13 22:03	VHL	P3C0035
n-Propylbenzene	BRL	ug/L	0.50	0.060	1	8260B	3/2/13 22:03	VHL	P3C0035
o-Xylene	**1.1**	**ug/L**	**0.50**	**0.046**	**1**	**8260B**	**3/2/13 22:03**	**VHL**	**P3C0035**
sec-Butylbenzene	BRL	ug/L	0.50	0.087	1	8260B	3/2/13 22:03	VHL	P3C0035
Styrene	BRL	ug/L	0.50	0.047	1	8260B	3/2/13 22:03	VHL	P3C0035
tert-Butylbenzene	BRL	ug/L	0.50	0.080	1	8260B	3/2/13 22:03	VHL	P3C0035
Tetrachloroethylene	**11000**	**ug/L**	**500**	**69**	**1000**	**8260B**	**3/4/13 15:23**	**VHL**	**P3C0035**
Toluene	BRL	ug/L	0.50	0.042	1	8260B	3/2/13 22:03	VHL	P3C0035
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.12	1	8260B	3/2/13 22:03	VHL	P3C0035
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.043	1	8260B	3/2/13 22:03	VHL	P3C0035
Trichloroethylene	**1000**	**ug/L**	**50**	**5.4**	**100**	**8260B**	**3/4/13 15:23**	**VHL**	**P3C0035**
Trichlorofluoromethane	**43**	**ug/L**	**0.50**	**0.088**	**1**	**8260B**	**3/2/13 22:03**	**VHL**	**P3C0035**
Vinyl acetate	BRL	ug/L	2.0	0.10	1	8260B	3/2/13 22:03	VHL	P3C0035
Vinyl chloride	BRL	ug/L	0.50	0.16	1	8260B	3/2/13 22:03	VHL	P3C0035

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*122 %*	*80-124*
Dibromofluoromethane	*98 %*	*75-129*
Toluene-d8	*104 %*	*77-123*

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Solutions-IES, Inc.
Attn: Jody Overmyer
1101 Nowell Road
Raleigh, NC 27607

Project: Eaton Selma

Sample Matrix: Water

Client Sample ID: TMW-30-28
Prism Sample ID: 3030030-04
Prism Work Order: 3030030
Time Collected: 02/27/13 14:10
Time Submitted: 03/01/13 10:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	**1.2**	**ug/L**	**0.50**	**0.15**	**1**	**8260B**	**3/2/13 22:53**	**VHL**	**P3C0035**
1,1,1-Trichloroethane	**2.6**	**ug/L**	**0.50**	**0.063**	**1**	**8260B**	**3/2/13 22:53**	**VHL**	**P3C0035**
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.071	1	8260B	3/2/13 22:53	VHL	P3C0035
1,1,2-Trichloroethane	**1.6**	**ug/L**	**0.50**	**0.17**	**1**	**8260B**	**3/2/13 22:53**	**VHL**	**P3C0035**
1,1-Dichloroethane	**3.4**	**ug/L**	**0.50**	**0.096**	**1**	**8260B**	**3/2/13 22:53**	**VHL**	**P3C0035**
1,1-Dichloroethylene	**2000**	**ug/L**	**50**	**7.8**	**100**	**8260B**	**3/4/13 14:57**	**VHL**	**P3C0035**
1,1-Dichloropropylene	BRL	ug/L	0.50	0.061	1	8260B	3/2/13 22:53	VHL	P3C0035
1,2,3-Trichlorobenzene	BRL	ug/L	2.0	0.20	1	8260B	3/2/13 22:53	VHL	P3C0035
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.081	1	8260B	3/2/13 22:53	VHL	P3C0035
1,2,4-Trichlorobenzene	BRL	ug/L	1.0	0.10	1	8260B	3/2/13 22:53	VHL	P3C0035
1,2,4-Trimethylbenzene	BRL	ug/L	0.50	0.048	1	8260B	3/2/13 22:53	VHL	P3C0035
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.59	1	8260B	3/2/13 22:53	VHL	P3C0035
1,2-Dibromoethane	BRL	ug/L	0.50	0.14	1	8260B	3/2/13 22:53	VHL	P3C0035
1,2-Dichlorobenzene	**2.0**	**ug/L**	**0.50**	**0.076**	**1**	**8260B**	**3/2/13 22:53**	**VHL**	**P3C0035**
1,2-Dichloroethane	**0.80**	**ug/L**	**0.50**	**0.14**	**1**	**8260B**	**3/2/13 22:53**	**VHL**	**P3C0035**
1,2-Dichloropropane	BRL	ug/L	0.50	0.13	1	8260B	3/2/13 22:53	VHL	P3C0035
1,3,5-Trimethylbenzene	BRL	ug/L	0.50	0.057	1	8260B	3/2/13 22:53	VHL	P3C0035
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.074	1	8260B	3/2/13 22:53	VHL	P3C0035
1,3-Dichloropropane	BRL	ug/L	0.50	0.11	1	8260B	3/2/13 22:53	VHL	P3C0035
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.068	1	8260B	3/2/13 22:53	VHL	P3C0035
2,2-Dichloropropane	BRL	ug/L	2.0	0.11	1	8260B	3/2/13 22:53	VHL	P3C0035
2-Chloroethyl Vinyl Ether	BRL	ug/L	2.0	0.22	1	8260B	3/2/13 22:53	VHL	P3C0035
2-Chlorotoluene	BRL	ug/L	0.50	0.038	1	8260B	3/2/13 22:53	VHL	P3C0035
4-Chlorotoluene	BRL	ug/L	0.50	0.053	1	8260B	3/2/13 22:53	VHL	P3C0035
4-Isopropyltoluene	BRL	ug/L	0.50	0.065	1	8260B	3/2/13 22:53	VHL	P3C0035
Acetone	BRL	ug/L	5.0	0.62	1	8260B	3/2/13 22:53	VHL	P3C0035
Acrolein	BRL	ug/L	20	1.1	1	8260B	3/2/13 22:53	VHL	P3C0035
Acrylonitrile	BRL	ug/L	20	0.86	1	8260B	3/2/13 22:53	VHL	P3C0035
Benzene	BRL	ug/L	0.50	0.072	1	8260B	3/2/13 22:53	VHL	P3C0035
Bromobenzene	BRL	ug/L	0.50	0.064	1	8260B	3/2/13 22:53	VHL	P3C0035
Bromochloromethane	BRL	ug/L	0.50	0.13	1	8260B	3/2/13 22:53	VHL	P3C0035
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	8260B	3/2/13 22:53	VHL	P3C0035
Bromoform	BRL	ug/L	1.0	0.27	1	8260B	3/2/13 22:53	VHL	P3C0035
Bromomethane	BRL	ug/L	1.0	0.47	1	8260B	3/2/13 22:53	VHL	P3C0035
Carbon disulfide	BRL	ug/L	5.0	1.4	1	8260B	3/2/13 22:53	VHL	P3C0035
Carbon Tetrachloride	**21**	**ug/L**	**0.50**	**0.12**	**1**	**8260B**	**3/2/13 22:53**	**VHL**	**P3C0035**
Chlorobenzene	BRL	ug/L	0.50	0.061	1	8260B	3/2/13 22:53	VHL	P3C0035
Chloroethane	BRL	ug/L	0.50	0.13	1	8260B	3/2/13 22:53	VHL	P3C0035
Chloroform	**4.7**	**ug/L**	**0.50**	**0.089**	**1**	**8260B**	**3/2/13 22:53**	**VHL**	**P3C0035**
Chloromethane	BRL	ug/L	0.50	0.11	1	8260B	3/2/13 22:53	VHL	P3C0035
cis-1,2-Dichloroethylene	**0.45 J**	**ug/L**	**0.50**	**0.076**	**1**	**8260B**	**3/2/13 22:53**	**VHL**	**P3C0035**
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.10	1	8260B	3/2/13 22:53	VHL	P3C0035

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Solutions-IES, Inc.
Attn: Jody Overmyer
1101 Nowell Road
Raleigh, NC 27607

Project: Eaton Selma

Sample Matrix: Water

Client Sample ID: TMW-30-28
Prism Sample ID: 3030030-04
Prism Work Order: 3030030
Time Collected: 02/27/13 14:10
Time Submitted: 03/01/13 10:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Dibromochloromethane	BRL	ug/L	0.50	0.30	1	8260B	3/2/13 22:53	VHL	P3C0035
Dibromomethane	BRL	ug/L	0.50	0.13	1	8260B	3/2/13 22:53	VHL	P3C0035
Dichlorodifluoromethane	BRL	ug/L	1.0	0.11	1	8260B	3/2/13 22:53	VHL	P3C0035
Ethylbenzene	BRL	ug/L	0.50	0.067	1	8260B	3/2/13 22:53	VHL	P3C0035
Hexachlorobutadiene	BRL	ug/L	2.0	0.36	1	8260B	3/2/13 22:53	VHL	P3C0035
Isopropyl Ether	BRL	ug/L	0.50	0.043	1	8260B	3/2/13 22:53	VHL	P3C0035
Isopropylbenzene (Cumene)	BRL	ug/L	0.50	0.072	1	8260B	3/2/13 22:53	VHL	P3C0035
m,p-Xylenes	**1.3**	**ug/L**	**1.0**	**0.081**	**1**	**8260B**	**3/2/13 22:53**	**VHL**	**P3C0035**
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.19	1	8260B	3/2/13 22:53	VHL	P3C0035
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.90	1	8260B	3/2/13 22:53	VHL	P3C0035
Methyl Isobutyl Ketone	BRL	ug/L	5.0	0.12	1	8260B	3/2/13 22:53	VHL	P3C0035
Methylene Chloride	**0.69 J**	**ug/L**	**1.0**	**0.44**	**1**	**8260B**	**3/2/13 22:53**	**VHL**	**P3C0035**
Methyl-tert-Butyl Ether	BRL	ug/L	0.50	0.070	1	8260B	3/2/13 22:53	VHL	P3C0035
Naphthalene	BRL	ug/L	1.0	0.098	1	8260B	3/2/13 22:53	VHL	P3C0035
n-Butylbenzene	BRL	ug/L	1.0	0.11	1	8260B	3/2/13 22:53	VHL	P3C0035
n-Propylbenzene	BRL	ug/L	0.50	0.060	1	8260B	3/2/13 22:53	VHL	P3C0035
o-Xylene	**1.2**	**ug/L**	**0.50**	**0.046**	**1**	**8260B**	**3/2/13 22:53**	**VHL**	**P3C0035**
sec-Butylbenzene	BRL	ug/L	0.50	0.087	1	8260B	3/2/13 22:53	VHL	P3C0035
Styrene	BRL	ug/L	0.50	0.047	1	8260B	3/2/13 22:53	VHL	P3C0035
tert-Butylbenzene	BRL	ug/L	0.50	0.080	1	8260B	3/2/13 22:53	VHL	P3C0035
Tetrachloroethylene	**10000**	**ug/L**	**500**	**69**	**1000**	**8260B**	**3/4/13 16:39**	**VHL**	**P3C0035**
Toluene	BRL	ug/L	0.50	0.042	1	8260B	3/2/13 22:53	VHL	P3C0035
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.12	1	8260B	3/2/13 22:53	VHL	P3C0035
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.043	1	8260B	3/2/13 22:53	VHL	P3C0035
Trichloroethylene	**1100**	**ug/L**	**50**	**5.4**	**100**	**8260B**	**3/4/13 14:57**	**VHL**	**P3C0035**
Trichlorofluoromethane	**41**	**ug/L**	**0.50**	**0.088**	**1**	**8260B**	**3/2/13 22:53**	**VHL**	**P3C0035**
Vinyl acetate	BRL	ug/L	2.0	0.10	1	8260B	3/2/13 22:53	VHL	P3C0035
Vinyl chloride	BRL	ug/L	0.50	0.16	1	8260B	3/2/13 22:53	VHL	P3C0035

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*123 %*	*80-124*
Dibromofluoromethane	*97 %*	*75-129*
Toluene-d8	*103 %*	*77-123*

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Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

Solutions-IES, Inc.
Attn: Jody Overmyer
1101 Nowell Road
Raleigh, NC 27607

Project: Eaton Selma

Prism Work Order: 3030030
Time Submitted: 3/1/2013 10:00:00AM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3C0035 - 5030B										
Blank (P3C0035-BLK1)				Prepared & Analyzed: 03/02/13						
1,1,1,2-Tetrachloroethane	BRL	0.50	ug/L							
1,1,1-Trichloroethane	BRL	0.50	ug/L							
1,1,2,2-Tetrachloroethane	BRL	0.50	ug/L							
1,1,2-Trichloroethane	BRL	0.50	ug/L							
1,1-Dichloroethane	BRL	0.50	ug/L							
1,1-Dichloroethylene	BRL	0.50	ug/L							
1,1-Dichloropropylene	BRL	0.50	ug/L							
1,2,3-Trichlorobenzene	BRL	2.0	ug/L							
1,2,3-Trichloropropane	BRL	1.0	ug/L							
1,2,4-Trichlorobenzene	BRL	1.0	ug/L							
1,2,4-Trimethylbenzene	BRL	0.50	ug/L							
1,2-Dibromo-3-chloropropane	BRL	2.0	ug/L							
1,2-Dibromoethane	BRL	0.50	ug/L							
1,2-Dichlorobenzene	BRL	0.50	ug/L							
1,2-Dichloroethane	BRL	0.50	ug/L							
1,2-Dichloropropane	BRL	0.50	ug/L							
1,3,5-Trimethylbenzene	BRL	0.50	ug/L							
1,3-Dichlorobenzene	BRL	0.50	ug/L							
1,3-Dichloropropane	BRL	0.50	ug/L							
1,4-Dichlorobenzene	BRL	0.50	ug/L							
2,2-Dichloropropane	BRL	2.0	ug/L							
2-Chloroethyl Vinyl Ether	BRL	2.0	ug/L							
2-Chlorotoluene	BRL	0.50	ug/L							
4-Chlorotoluene	BRL	0.50	ug/L							
4-Isopropyltoluene	BRL	0.50	ug/L							
Acetone	BRL	5.0	ug/L							
Acrolein	BRL	20	ug/L							
Acrylonitrile	BRL	20	ug/L							
Benzene	BRL	0.50	ug/L							
Bromobenzene	BRL	0.50	ug/L							
Bromochloromethane	BRL	0.50	ug/L							
Bromodichloromethane	BRL	0.50	ug/L							
Bromoform	BRL	1.0	ug/L							
Bromomethane	BRL	1.0	ug/L							
Carbon disulfide	BRL	5.0	ug/L							
Carbon Tetrachloride	BRL	0.50	ug/L							
Chlorobenzene	BRL	0.50	ug/L							
Chloroethane	BRL	0.50	ug/L							
Chloroform	BRL	0.50	ug/L							
Chloromethane	BRL	0.50	ug/L							
cis-1,2-Dichloroethylene	BRL	0.50	ug/L							
cis-1,3-Dichloropropylene	BRL	0.50	ug/L							
Dibromochloromethane	BRL	0.50	ug/L							
Dibromomethane	BRL	0.50	ug/L							
Dichlorodifluoromethane	BRL	1.0	ug/L							
Ethylbenzene	BRL	0.50	ug/L							

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Solutions-IES, Inc.
Attn: Jody Overmyer
1101 Nowell Road
Raleigh, NC 27607

Project: Eaton Selma

Prism Work Order: 3030030
Time Submitted: 3/1/2013 10:00:00AM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3C0035 - 5030B										
Blank (P3C0035-BLK1)				Prepared & Analyzed: 03/02/13						
Hexachlorobutadiene	BRL	2.0	ug/L							
Isopropyl Ether	BRL	0.50	ug/L							
Isopropylbenzene (Cumene)	BRL	0.50	ug/L							
m,p-Xylenes	BRL	1.0	ug/L							
Methyl Butyl Ketone (2-Hexanone)	BRL	5.0	ug/L							
Methyl Ethyl Ketone (2-Butanone)	BRL	5.0	ug/L							
Methyl Isobutyl Ketone	BRL	5.0	ug/L							
Methylene Chloride	BRL	1.0	ug/L							
Methyl-tert-Butyl Ether	BRL	0.50	ug/L							
Naphthalene	BRL	1.0	ug/L							
n-Butylbenzene	BRL	1.0	ug/L							
n-Propylbenzene	BRL	0.50	ug/L							
o-Xylene	BRL	0.50	ug/L							
sec-Butylbenzene	BRL	0.50	ug/L							
Styrene	BRL	0.50	ug/L							
tert-Butylbenzene	BRL	0.50	ug/L							
Tetrachloroethylene	BRL	0.50	ug/L							
Toluene	BRL	0.50	ug/L							
trans-1,2-Dichloroethylene	BRL	0.50	ug/L							
trans-1,3-Dichloropropylene	BRL	0.50	ug/L							
Trichloroethylene	BRL	0.50	ug/L							
Trichlorofluoromethane	BRL	0.50	ug/L							
Vinyl acetate	BRL	2.0	ug/L							
Vinyl chloride	BRL	0.50	ug/L							
Surrogate: 4-Bromofluorobenzene	*58.6*		*ug/L*	*50.00*		*117*	*80-124*			
Surrogate: Dibromofluoromethane	*54.8*		*ug/L*	*50.00*		*110*	*75-129*			
Surrogate: Toluene-d8	*55.6*		*ug/L*	*50.00*		*111*	*77-123*			

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Solutions-IES, Inc.
Attn: Jody Overmyer
1101 Nowell Road
Raleigh, NC 27607

Project: Eaton Selma

Prism Work Order: 3030030
Time Submitted: 3/1/2013 10:00:00AM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3C0035 - 5030B										
LCS (P3C0035-BS1)				Prepared & Analyzed: 03/02/13						
1,1-Dichloroethylene	21.0	0.50	ug/L	20.00		105	70-154			
Benzene	22.8	0.50	ug/L	20.00		114	77-128			
Chlorobenzene	21.9	0.50	ug/L	20.00		110	78-119			
Toluene	23.0	0.50	ug/L	20.00		115	76-131			
Trichloroethylene	21.5	0.50	ug/L	20.00		108	77-133			
Surrogate: 4-Bromofluorobenzene	*56.7*		*ug/L*	*50.00*		*113*	*80-124*			
Surrogate: Dibromofluoromethane	*55.5*		*ug/L*	*50.00*		*111*	*75-129*			
Surrogate: Toluene-d8	*55.1*		*ug/L*	*50.00*		*110*	*77-123*			
LCS Dup (P3C0035-BSD1)				Prepared & Analyzed: 03/02/13						
1,1-Dichloroethylene	18.8	0.50	ug/L	20.00		94	70-154	11	20	
Benzene	20.2	0.50	ug/L	20.00		101	77-128	12	20	
Chlorobenzene	19.6	0.50	ug/L	20.00		98	78-119	11	20	
Toluene	20.7	0.50	ug/L	20.00		103	76-131	11	20	
Trichloroethylene	19.0	0.50	ug/L	20.00		95	77-133	12	20	
Surrogate: 4-Bromofluorobenzene	*56.0*		*ug/L*	*50.00*		*112*	*80-124*			
Surrogate: Dibromofluoromethane	*54.2*		*ug/L*	*50.00*		*108*	*75-129*			
Surrogate: Toluene-d8	*53.8*		*ug/L*	*50.00*		*108*	*77-123*			

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Solutions-IES, Inc.
Attn: Jody Overmyer
1101 Nowell Road
Raleigh, NC 27607

Project: Eaton Selma

Prism Work Order: 3030030
Time Submitted: 3/1/2013 10:00:00AM

General Chemistry Parameters - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3C0027 - NO PREP										
Blank (P3C0027-BLK1)				Prepared & Analyzed: 03/01/13						
Total Alkalinity	BRL	5.0	mg/L							
LCS (P3C0027-BS1)				Prepared & Analyzed: 03/01/13						
Total Alkalinity	252	5.0	mg/L	250.0		101	90-110			
LCS Dup (P3C0027-BSD1)				Prepared & Analyzed: 03/01/13						
Total Alkalinity	256	5.0	mg/L	250.0		102	90-110	2	200	
Duplicate (P3C0027-DUP1)		**Source: 3030030-02**		Prepared & Analyzed: 03/01/13						
Total Alkalinity	30.0	5.0	mg/L		30.4			1	20	
Batch P3C0084 - NO PREP										
LCS (P3C0084-BS1)				Prepared & Analyzed: 03/05/13						
pH	6.88		pH Units	6.880		100	99-101			
Batch P3C0181 - NO PREP										
Blank (P3C0181-BLK1)				Prepared & Analyzed: 03/11/13						
Acidity	BRL	5.0	mg/L							
LCS (P3C0181-BS1)				Prepared & Analyzed: 03/11/13						
Acidity	24.7	5.0	mg/L	25.00		99	90-110			
LCS Dup (P3C0181-BSD1)				Prepared & Analyzed: 03/11/13						
Acidity	26.1	5.0	mg/L	25.00		104	90-110	6	200	

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Solutions-IES, Inc.
Attn: Jody Overmyer
1101 Nowell Road
Raleigh, NC 27607

Project: Eaton Selma

Prism Work Order: 3030030
Time Submitted: 3/1/2013 10:00:00AM

General Chemistry Parameters - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3C0181 - NO PREP										
Duplicate (P3C0181-DUP1)		**Source: 3030030-02**		Prepared & Analyzed: 03/11/13						
Acidity	32.7	5.0	mg/L		32.9			0.7	20	

Sample Extraction Data

Prep Method: 5030B

Lab Number	Batch	Initial	Final	Date/Time
3030030-01	P3C0035	10 mL	10 mL	03/02/13 13:11
3030030-01	P3C0035	10 mL	10 mL	03/02/13 13:11
3030030-02	P3C0035	10 mL	10 mL	03/02/13 13:11
3030030-02	P3C0035	10 mL	10 mL	03/02/13 13:11
3030030-03	P3C0035	10 mL	10 mL	03/02/13 13:11
3030030-03	P3C0035	10 mL	10 mL	03/02/13 13:11
3030030-04	P3C0035	10 mL	10 mL	03/02/13 13:11
3030030-04	P3C0035	10 mL	10 mL	03/02/13 13:11
3030030-04	P3C0035	10 mL	10 mL	03/02/13 13:11

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PRISM LABORATORIES, INC.
Full Service Analytical & Environmental Solutions
449 Springbrook Road • P.O. Box 240543 • Charlotte, NC 28224-0543
Phone: 704/529-6364 • Fax: 704/525-0409

CHAIN OF CUSTODY RECORD

PAGE 1 OF 2 QUOTE # TO ENSURE PROPER BILLING:

Client Company Name: Solutions-IES
Report To/Contact Name: Jody Overmyer / james Joyner
Reporting Address: 1101 Nowell Rd
raleigh, nc, 27607
Phone: (919) 873-1060 Fax (Yes) (No):
Email (Yes) (No) Email Address jjoyner@solutions-ies.com
EDD Type: PDF Excel ✓ Other
Site Location Name: Eaton Selma
Site Location Physical Address: Selma, NC

Project Name: Eaton Selma PDI
Short Hold Analysis: (Yes) (No) UST Project: (Yes) (No)
*Please ATTACH any project specific reporting (QC LEVEL I II III IV) provisions and/or QC Requirements
Invoice To: Emily Davis
Address:

Purchase Order No./Billing Reference 2013.0014/2
Requested Due Date 1 Day 2 Days 3 Days 4 Days 5 Days
"Working Days" 6-9 Days ✓ Standard 10 days
Samples received after 15:00 will be processed next business day.
Turnaround time is based on business days, excluding weekends and holidays.
(SEE REVERSE FOR TERMS & CONDITIONS REGARDING SERVICES RENDERED BY PRISM LABORATORIES, INC. TO CLIENT)

LAB USE ONLY

	YES	NO	N/A
Samples INTACT upon arrival?	✓		
Received ON WET ICE? Temp 5.8	✓		
PROPER PRESERVATIVES indicated?	✓		
Received WITHIN HOLDING TIMES?	✓		
CUSTODY SEALS INTACT?			✓
VOLATILES rec'd W/OUT HEADSPACE?	✓		
PROPER CONTAINERS used?	✓		

TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL
Certification: NELAC ___ USACE ___ FL ___ NC ✓ SC ___ OTHER ___ N/A ___
Water Chlorinated: YES ___ NO ___
Sample Iced Upon Collection: YES ✓ NO ___

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER OR SLUDGE)	SAMPLE CONTAINER *TYPE SEE BELOW	NO.	SIZE	PRESERVATIVES	VOC	PH	Acidity	ALK			REMARKS	PRISM LAB ID NO.
TMW-30-15	2-27-13	1550	Water					✓						Low Run Analysis on groundwater Samples	01
TMW-30-20	2-27-13	1450	Water					✓	✓	✓	✓				02
TMW-30-25	2-27-13	1430	Water					✓							03
TMW-30-28	2-27-13	1410	Water					✓							04

Sampler's Signature [signature] Sampled By (Print Name) SEAN JAKPI Affiliation Solutions-IES

PRESS DOWN FIRMLY - 3 COPIES

Upon relinquishing, this Chain of Custody is your authorization for Prism to proceed with the analyses as requested above. Any changes must be submitted in writing to the Prism Project Manager. There will be charges for any changes after analyses have been initialized.

Relinquished By: (Signature)	Received By: (Signature)	Date	Military/Hours
[signature]	Macim Daraed	2-28	14:50
Relinquished By: (Signature)	Received By: (Signature)	Date	
Relinquished By: (Signature)	Received For Prism Laboratories By: [signature]	Date 3/1/13	10:00

Log-In Group No. 303 0030

Method of Shipment: NOTE: ALL SAMPLE COOLERS SHOULD BE TAPED SHUT WITH CUSTODY SEALS FOR TRANSPORTATION TO THE LABORATORY. SAMPLES ARE NOT ACCEPTED AND VERIFIED AGAINST COC UNTIL RECEIVED AT THE LABORATORY.
Fed Ex UPS Hand-delivered Prism Field Service Other

Additional Comments:
VOC-8260,
PH-SM4500-HB
Acidity-SM2310 B,
ALK-SM2320B

PRISM USE ONLY
Site Arrival Time:
Site Departure Time:
Field Tech Fee:
Mileage:

NPDES:	UST:	GROUNDWATER:	DRINKING WATER:	SOLID WASTE:	RCRA:	CERCLA	LANDFILL	OTHER:
_ NC _ SC	NC _ SC	_ NC _ SC	_ NC _ SC	✓ NC _ SC	_ NC _ SC	_ NC _ SC	_ NC _ SC	_ NC _ SC

SEE REVERSE FOR TERMS & CONDITIONS

ORIGINAL

REDOX TECH, LLC

"Providing Innovative In Situ Soil and Groundwater Treatment"

TOTAL OXIDANT DEMAND (TOD) SAMPLE ANALYSES

Company: **Solutions-IES**
Project: **Selma, NC site**

Samples received: February 28, 2013
Samples prepared: March 1, 2013
Samples titrated: March 6, 2013
Oxidant: Potassium Permanganate
Oxidant Dose: 5g/kg PPM

Sample ID	Oxidant demand (g/kg)
SB-47-CS-4-6	4.7
SB-47-CS-6-8	0.3
SB-47-CS-8-10	0.3
SB-48-CS-6-8	4.6
SB-48-CS-8-10	3.2
SB-48-CS-10-12	0.7

100 grams of soil from the site and 120 ml of groundwater were used for the TOD treatment.

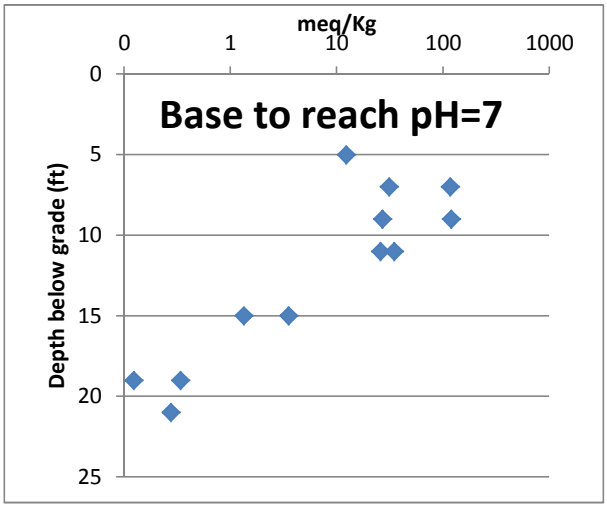
TOD is reported in grams of oxidant per kilogram of soil. TOD testing for permanganate completed per Haselow *et al., 2003*. Estimating the Total Oxidant Demand for In Situ Chemical Oxidation Design, Remediation, Autumn, 2003.

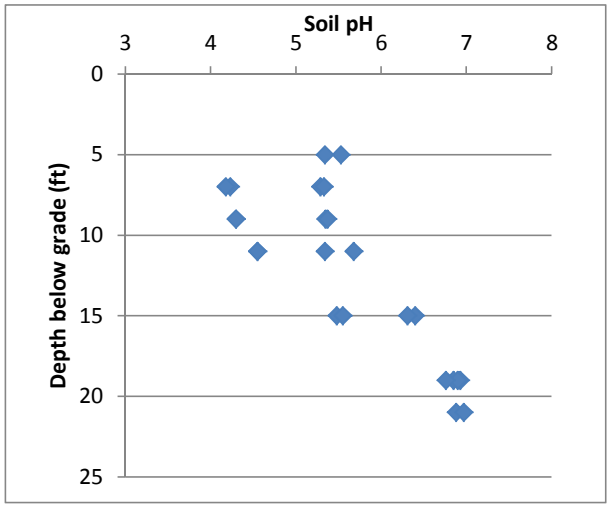
Soil samples had no odor when received. Samples were prepared on March 1, 2013 and dosed with 5 grams of potassium permanganate per kilogram of soil.

Magaly A. Ramirez

200 QUADE DRIVE, CARY NC 27513 TEL (919) 678-0140 FAX (919) 678-0150
WWW.REDOX-TECH.COM E-MAIL: RAMIREZ@REDOX-TECH.COM

AMOUNT OF BASE SUMMARY				
Lab ID	Ave. Depth (ft)	Sample Collection ID	Interpolation equation	meq NaOH/gr soil to reach pH=7
A	5	SB-47-CS-4-6	y = 56.667x + 6.3013	0.012
B	7	SB-47-CS-6-8	y = 70.172x + 4.8128	0.031
C	9	SB-47-CS-8-10	y = 81.015x + 4.8172	0.027
D	11	SB-47-SG-10-12	y = 32.286x + 6.1682	0.026
E	15	SB-47-SG-16-18	y = 452.06x + 6.3927	0.001
F	19	SB-47-SG-18-20	y = 1012.3x + 6.8749	0.0001
G	7	SB-48-CS-6-8	y = 31.155x + 3.3562	0.117
H	9	SB-48-CS-8-10	y = 36.586x + 2.633	0.119
I	11	SB-48-CS-10-12	y = 69.984x + 4.561	0.035
J	15	SB-48-SG-16-18	y = 397.98x + 5.5925	0.004
K	19	SB-48-SG-18-20	y = 456.47x + 6.8449	0.0003
L	21	SB-48-SG-20-22	y = 450.75x + 6.8751	0.0003





2340 Stock Creek Blvd.
Rockford TN 37853-3044
Phone: (865) 573-8188
Fax: (865) 573-8133
Email: info@microbe.com

Client: Jody Overmyer
Solutions IES
1101 Nowell Road
Raleigh, NC 27607

Phone: 919.873.1060

Fax: 919.873.1074

Identifier: 078KB **Date Rec:** 02/28/2013 **Report Date:** 03/06/2013

Client Project #: **Client Project Name:** Eaton Selma

Purchase Order #: 2013.0014/2

Analysis Requested: CENSUS

Reviewed By:

NOTICE: This report is intended only for the addressee shown above and may contain confidential or privileged information. If the recipient of this material is not the intended recipient or if you have received this in error, please notify Microbial Insights, Inc. immediately. The data and other information in this report represent only the sample(s) analyzed and are rendered upon condition that it is not to be reproduced without approval from Microbial Insights, Inc. Thank you for your cooperation.

MICROBIAL INSIGHTS, INC.

2340 Stock Creek Blvd. Rockford, TN 37853-3044
Tel. (865) 573-8188 Fax. (865) 573-8133

CENSUS

Client: **Solutions IES**
Project: Eaton Selma

MI Project Number: **078KB**
Date Received: 02/28/2013

Sample Information

Client Sample ID:	**TMW-30-20**	**SB49-10-12**	**SB50-10-12**
Sample Date:	02/27/2013	02/27/2013	02/27/2013
Units:	cells/mL	cells/g	cells/g
Analyst:	RW	RW	RW

Dechlorinating Bacteria

Dehalococcoides	*DHC*	<1.00E+01	<1.00E+03	<1.00E+03
tceA Reductase	TCE	<1.00E+01	<1.00E+03	<1.00E+03
BAV1 Vinyl Chloride Reductase	BVC	<1.00E+01	<1.00E+03	<1.00E+03
Vinyl Chloride Reductase	VCR	<1.00E+01	<1.00E+03	<1.00E+03

Legend:
NA = Not Analyzed NS = Not Sampled J = Estimated gene copies below PQL but above LQL I = Inhibited
< = Result not detected

APPENDIX G

FEBRUARY 2012 PDI FIELD NOTES

2013.0014/2

2/27/13 Eaton Selma S. Jarvi Simmons SU [illegible]

6:45 Depart office, stop for Ice

7:35 Arrive on-site. Hold H+S meeting + measure out boring location

750 Contacted John McLamb + calibrated meters

800 KCI on-site, begin marking utilities.

815 Spoke w J.O. Will perform 1 specific cap test at WL at SB-47/TMW-30 + twin cap before attempting SB-51

850 KCI off-site. Begin w/ SB47

10:15 Solutions-ies crew arrives to view event

1045 Solutions-ies crew off-site

12:40 Begin setting SP Samples.

1255 Set S.P to 28' WL 1st equilibrate

1305 WL 4.61 bgs
5.63 TOC

2/27/13 0014

SB-47

Depth	P.D	Soil Type	Sample	Time Sampled
0-2	0.8	CS		
2-4	2.1	CS		
4-6	9.6	CS	x	1020
6-8	55.7	CS	x	1030
8-10	142.6	CS	x	1040
10-12	32.9	SG	*	1200
12-14	8.5	SG		
14-16	2.2	SG		
16-18	25.1	SG	*	1215
18-20	27.3	SG	*	1230
20-22	5.8	SG		
22-24	13.5	SG		
24-26	4.8	SG - Large gravel		
26-28	2.5	SG " "		
28-30	Refusal at 28' bgs			

10:20 Collect SB-47-CS-4-6
10:30 Collect SB-47-CS-6-8
10:40 Collect SB-47-CS-8-10
12:00 Collect SB-47-SG-10-12
12:15 Collect SB 47-SG-16-18
12:30 Collect SB 47-SG-18-20

2/27/13 2013.0014

1315 TMW-30 WL 4.92 TOC
5.94 bgs

1321 WL - stable. Set tubing

Specific Capacity test TMW-30
WL = 4.92
Screen = 1" x 43" (4 slot)

Set tubing 6" below WL
(0.52 - tenths)
= 5.44' btoc

Time	amt H_2O
30sec	- no flow

new dpt 1.0' below WL

Time	AmT
30sec	125 ml
30sec	125 ml
30sec	125 ml
30 sec	125 ml
30 sec	125 ml

2/27/13 2013.0014 ~~2012.0003/4~~

1345 Develop TMW-30 (3 gallons)

1410 collect TMW-30-28

1430 collect TMW-30-25

1450 collect TMW-30-20

* collect water for redox from this interval

1545 Collect TMW-30-15

1550 Start in SB 49+50

1600 collect SB49-10-12 (notably below fill material CS-layer)

1620 collect SB50-10-12 (notably below fill material CS-layer)

1635 off-site to ship MINTAC samples

1650 Shipped samples via Fed-Ex to microbac

2/27/13 2013.0014/2

1715 Filled All borings with Bentonite + decon rods
All samples Iced. will continue with SB-48 in A.m

1720 off site for day

1810 Arrive At office

IDW
* 1 Drum Soil
1 Drum H2O
2 1/4 Full each

Dated 10/2012
+
Ours from
today on-site
stayed by MW-2

S. JAMES
J. McIntyre
47° Clear

2/28/13 2013.0014/2

8:10 Depart office after re-stocking vehicle

9:00 Arrive on site. Hold H&S review & calibrate PID, + fill up gasoline

935 Begin setting up on SB-48

SB-48	PID	Soil Type	Sample collected	collect Time
0-2	1.2	CS		
2-4	2.2	CS		
4-6	2.3	CS		
6-8	2.5	CS	x	10:40
8-10	5.7	CS	x	10:55
10-12	11.6	CS/SG	x	(mostly CS) 11:15
12-14	0.2	SG		
14-16	0.9	SG		
16-18	4.9	SG	x	1235
18-20	3.5	SG	x	1245
20-22	2.0	SG	x	1255
22-24	0.6	SG		
24-26	0.3	SG		
26-28	0.2	SG		
28-30	0.1	SG		
30-32	—	Silt		

2/28/13 0014/2

1040 Collect SB48 - CS - 6-8
1055 Collect SB48 - CS - 8-10
1115 Collect SB48 - CS - 10-12

13:00 SB-48 complete. Start to
clean rods + Abandon hole w/ bentonite.
Seeded + layed straw down SB-47
due to Amount of mud + tire tracks.

1330 S.J off-site to Redox-Lab
SAM off-site to office

1420 Delivered Sample to Redox

1445 Arrive At office

SJ

APPENDIX H

TMW-30 GROUNDWATER SAMPLING LOGS

Solutions-IES
Industrial & Environmental Services

SOLUTIONS-IES
GROUNDWATER SAMPLING LOG

Site Name: Eaton Selma		**Site Location:** Eaton	
Well Number: TMW-30	**Sample ID:** TMW-30-15		**Date:** 2/27/13

PURGING DATA

Well Diameter (inches):	Tubing Diameter (inches):	Tubing:	Static Depth to water (feet):	Purge pump type or bailer:	Well Screen Interval Depth:
(1) 2 3 4	(1/4) 3/8 1/2	(LDPE) Teflon	4.92	P. pump	—

Initial Pump or Tubing Depth in well:	Purging Initiated:	Purging Ended:	Total Volume Purged (Gallons):	Sample Pump Flow Rate (mL/min):
1.5' off bottom	1530	1545	.60	200

Time	Volume Purged (gallons)	Cumulative Volume Purged (gallons)	Purge Rate: (mL/min)	Depth to Water (feet)	pH (SU)	Temp (°C)	Cond (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU's)	ORP (m/v)	Color (describe)	Odor (describe)
1535	.20	.20	200	—	5.31	14.69	1157	0.30	497	-489.3	reddish	none
1540	.20	.40	200	—	5.33	14.67	1140	0.28	480	-491.7	↓	↓
1545	.20	.60	200	—	5.35	14.66	1128	0.27	476	-493.6	↓	↓

Well Capacity (Gallons/Foot): **0.75"** = 0.02 **1"** = 0.04 **1.25"** = 0.06 **2"** = 0.16 **3"** = 0.37 **4"** = 0.65 **5"** = 1.02 **6"** = 1.47 **12"** = 5.88

Tubing Inside Diameter Capacity (Gallons/Foot): **1/8"** = 0.0006 **3/16"** = 0.0014 **1/4"** = 0.0026 **5/16"** = 0.004 **3/8"** = 0.006 **1/2"** = 0.010 **5/8"** = 0.016

SAMPLING DATA

Sampled By/Affiliation:	Sampler(s) Signature:	Sampling Initiated:	Sampling Ended:
[illegible]	[illegible]	1545	1550

Field Decontamination:	Field-Filtered:	Filter Size:	Filtration Equipment Type:	Duplicate:
Y (N)	Y (N)	— µm	—	Y (N)

SAMPLE CONTAINER INFORMATION

Sample ID Code	# Containers	Material Code	Volume	Preservative Used	Intended Analysis	Sampling Equipment Code
	4			HCL/None	8260	PP

Remarks:

Field Kits:

Material Codes: **AG** = Amber Glass **CG** = Clear Glass **PE** = Polyethylene **PP** = Polypropylene **S** = Silicone **T** = Teflon **O** = Other (Specify)

Sampling/Purging: **APP** = After Peristaltic Pump **B** = Bailer **BP** = Bladder Pump **ESP** = Electric Submersible Pump **PP** = Peristaltic Pump

Equipment Codes: **RFPP** = Reverse Flow Peristaltic Pump **SM** = Straw Method (Tubing Gravity Drain) **VT** = Vacuum Trap **O** = Other (Specify)

FDEP Stabilization criteria for range of variation of last three consecutive readings: **pH:** + 0.2 units **Temperature:** + 0.2°C **Specific Conductance:** + 5%
Dissolved Oxygen: all readings < 20% saturation; optionally, + 0.2 mg/L or + 10% (whichever is greater)
Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)

Solutions-IES
Industrial & Environmental Services

SOLUTIONS-IES
GROUNDWATER SAMPLING LOG

Site Name: Eaton Selma		**Site Location:** Selma NC	
Well Number: TMW-30	**Sample ID:** TMW-30-20	**Date:** 2/27/13	

PURGING DATA

Well Diameter (inches):	Tubing Diameter (inches):	Tubing:	Static Depth to water (feet):	Purge pump type or bailer:	Well Screen Interval Depth:
(1) 2 3 4	(1/4) 3/8 1/2	(HDPE) Teflon	4.92	P. Pump	—

Initial Pump or Tubing Depth in well:	Purging Initiated:	Purging Ended:	Total Volume Purged (Gallons):	Sample Pump Flow Rate (mL/min):
1.5' off bottom	1435	1450		200

Time	Volume Purged (gallons)	Cumulative Volume Purged (gallons)	Purge Rate: (mL/min)	Depth to Water (feet)	pH (SU)	Temp (°C)	Cond (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU's)	ORP (m/v)	Color (describe)	Odor (describe)
1440	.20	.20	200	—	5.91	16.90	87	0.96	461	-475.8	Tea	none
1445	.20	.40	200	—	5.92	16.87	87	0.88	396	-491.7	↓	↓
1450	.20	.60	200	—	5.92	16.85	87	0.85	384	-501.3	↓	↓

Well Capacity (Gallons/Foot): **0.75"** = 0.02 **1"** = 0.04 **1.25"** = 0.06 **2"** = 0.16 **3"** = 0.37 **4"** = 0.65 **5"** = 1.02 **6"** = 1.47 **12"** = 5.88

Tubing Inside Diameter Capacity (Gallons/Foot): **1/8"** = 0.0006 **3/16"** = 0.0014 **1/4"** = 0.0026 **5/16"** = 0.004 **3/8"** = 0.006 **1/2"** = 0.010 **5/8"** = 0.016

SAMPLING DATA

Sampled By/Affiliation:	Sampler(s) Signature:	Sampling Initiated:	Sampling Ended:
Sea Jarvis	[signature]	1450	1459

Field Decontamination:	Field-Filtered:	Filter Size:	Filtration Equipment Type:	Duplicate:
Y (N)	Y (N)	— µm	—	Y (N)

SAMPLE CONTAINER INFORMATION

Sample ID Code	# Containers	Material Code	Volume	Preservative Used	Intended Analysis	Sampling Equipment Code
				HCl/NaOH	8260	PP
				NaOH	PH	↓
					ANC	
				↓	DHC	↓

Remarks:

Field Kits:

Material Codes: **AG** = Amber Glass **CG** = Clear Glass **PE** = Polyethylene **PP** = Polypropylene **S** = Silicone **T** = Teflon **O** = Other (Specify)

Sampling/Purging: **APP** = After Peristaltic Pump **B** = Bailer **BP** = Bladder Pump **ESP** = Electric Submersible Pump **PP** = Peristaltic Pump

Equipment Codes: **RFPP** = Reverse Flow Peristaltic Pump **SM** = Straw Method (Tubing Gravity Drain) **VT** = Vacuum Trap **O** = Other (Specify)

FDEP Stabilization criteria for range of variation of last three consecutive readings: **pH:** + 0.2 units **Temperature:** + 0.2°C **Specific Conductance:** + 5%
Dissolved Oxygen: all readings < 20% saturation; optionally, + 0.2 mg/L or + 10% (whichever is greater)
Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)

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Industrial & Environmental Services

SOLUTIONS-IES
GROUNDWATER SAMPLING LOG

Site Name:		**Site Location:** Eaton Elmx
Well Number: TMW-30	**Sample ID:** TMW-30-25	**Date:** 2/27/17

PURGING DATA

Well Diameter (inches):	Tubing Diameter (inches):	Tubing:	Static Depth to water (feet):	Purge pump type or bailer:	Well Screen Interval Depth:
1 2 3 4	1/4 3/8 1/2	LDPE Teflon	4.92	P. pump	175

Initial Pump or Tubing Depth in well:	Purging Initiated:	Purging Ended:	Total Volume Purged (Gallons):	Sample Pump Flow Rate (mL/min):
1.5' off bottom	1415	1430	.60	200

Time	Volume Purged (gallons)	Cumulative Volume Purged (gallons)	Purge Rate: (mL/min)	Depth to Water (feet)	pH (SU)	Temp (°C)	Cond (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU's)	ORP (m/v)	Color (describe)	Odor (describe)
1420	.20	.20	175	–	6.03	17.05	101	0.38	397	-518.1	tan	none
1425	.20	.40	175	–	6.04	17.06	102	0.36	381	-519.2	↓	↓
1430	.20	.60	175	–	6.04	17.06	102	0.34	375	-521.3	↓	↓

Well Capacity (Gallons/Foot): **0.75"** = 0.02 **1"** = 0.04 **1.25"** = 0.06 **2"** = 0.16 **3"** = 0.37 **4"** = 0.65 **5"** = 1.02 **6"** = 1.47 **12"** = 5.88

Tubing Inside Diameter Capacity (Gallons/Foot): **1/8"** = 0.0006 **3/16"** = 0.0014 **1/4"** = 0.0026 **5/16"** = 0.004 **3/8"** = 0.006 **1/2"** = 0.010 **5/8"** = 0.016

SAMPLING DATA

Sampled By/Affiliation:	Sampler(s) Signature:	Sampling Initiated:	Sampling Ended:
[illegible]	[illegible]	1430	1433

Field Decontamination:	Field-Filtered:	Filter Size:	Filtration Equipment Type:	Duplicate:
Y (N)	Y (N)	— µm	—	Y (N)

SAMPLE CONTAINER INFORMATION

Sample ID Code	# Containers	Material Code	Volume	Preservative Used	Intended Analysis	Sampling Equipment Code
	4		40m	HCl/NON	8260	PP

Remarks:

Field Kits:

Material Codes: **AG** = Amber Glass **CG** = Clear Glass **PE** = Polyethylene **PP** = Polypropylene **S** = Silicone **T** = Teflon **O** = Other (Specify)

Sampling/Purging: **APP** = After Peristaltic Pump **B** = Bailer **BP** = Bladder Pump **ESP** = Electric Submersible Pump **PP** = Peristaltic Pump

Equipment Codes: **RFPP** = Reverse Flow Peristaltic Pump **SM** = Straw Method (Tubing Gravity Drain) **VT** = Vacuum Trap **O** = Other (Specify)

FDEP Stabilization criteria for range of variation of last three consecutive readings: **pH:** + 0.2 units **Temperature:** + 0.2°C **Specific Conductance:** + 5%
Dissolved Oxygen: all readings < 20% saturation; optionally, + 0.2 mg/L or + 10% (whichever is greater)
Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)

Solutions-IES
Industrial & Environmental Services

SOLUTIONS-IES
GROUNDWATER SAMPLING LOG

Site Name: Eaton Elm		**Site Location:** Eaton Elm	
Well Number: TMW-30-28	**Sample ID:** TMW-30-28		**Date:** 2/27/15

PURGING DATA

Well Diameter (inches):	Tubing Diameter (inches):	Tubing:	Static Depth to water (feet):	Purge pump type or bailer:	Well Screen Interval Depth:
(1) 2 3 4	(1/4) 3/8 1/2	(LDPE) Teflon	4.92 TOC	P. Pump	28 - Total Depth

Initial Pump or Tubing Depth in well:	Purging Initiated:	Purging Ended:	Total Volume Purged (Gallons):	Sample Pump Flow Rate (mL/min):
1' off bottom	1350	1410	1.0	200

Time	Volume Purged (gallons)	Cumulative Volume Purged (gallons)	Purge Rate: (mL/min)	Depth to Water (feet)	pH (SU)	Temp (°C)	Cond (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU's)	ORP (m/v)	Color (describe)	Odor (describe)
1355	.25	.25	200	–	5.86	16.75	88	1.09	361	-485.2	tan	none
1400	.25	.50	200	–	5.87	16.76	88	1.00	349	-491.3	↓	↓
1405	.25	.75	200	–	5.88	16.76	88	0.91	341	-492.1	↓	↓
1410	.25	1.0	200	–	5.88	16.77	88	0.80	338	-493.6	↓	↓

Well Capacity (Gallons/Foot): **0.75"** = 0.02 **1"** = 0.04 **1.25"** = 0.06 **2"** = 0.16 **3"** = 0.37 **4"** = 0.65 **5"** = 1.02 **6"** = 1.47 **12"** = 5.88

Tubing Inside Diameter Capacity (Gallons/Foot): **1/8"** = 0.0006 **3/16"** = 0.0014 **1/4"** = 0.0026 **5/16"** = 0.004 **3/8"** = 0.006 **1/2"** = 0.010 **5/8"** = 0.016

SAMPLING DATA

Sampled By/Affiliation:	Sampler(s) Signature:	Sampling Initiated:	Sampling Ended:
Sean Jarvait	[signature]	1410	1415

Field Decontamination:	Field-Filtered:	Filter Size:	Filtration Equipment Type:	Duplicate:
Y (N)	Y (N)	— µm	—	Y (N)

SAMPLE CONTAINER INFORMATION

Sample ID Code	# Containers	Material Code	Volume	Preservative Used	Intended Analysis	Sampling Equipment Code
	4		40ml	HCl/Nat	8260	PP

Remarks:

Field Kits:

Material Codes: **AG** = Amber Glass **CG** = Clear Glass **PE** = Polyethylene **PP** = Polypropylene **S** = Silicone **T** = Teflon **O** = Other (Specify)

Sampling/Purging: **APP** = After Peristaltic Pump **B** = Bailer **BP** = Bladder Pump **ESP** = Electric Submersible Pump **PP** = Peristaltic Pump

Equipment Codes: **RFPP** = Reverse Flow Peristaltic Pump **SM** = Straw Method (Tubing Gravity Drain) **VT** = Vacuum Trap **O** = Other (Specify)

FDEP Stabilization criteria for range of variation of last three consecutive readings: **pH:** + 0.2 units **Temperature:** + 0.2°C **Specific Conductance:** + 5%
Dissolved Oxygen: all readings < 20% saturation; optionally, + 0.2 mg/L or + 10% (whichever is greater)
Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)

APPENDIX I

MONITORING WELL PERMIT WM0500964

NCDENR

North Carolina Department of Environment and Natural Resources
Division of Water Resources
Water Quality Programs

Pat McCrory
Governor

Thomas A. Reeder
Director

John E. Skvarla, III
Secretary

August 16, 2013

Jeffery Allen, Manager, Growth, Acquisitions and Remediation
Eaton Corporation
Mail Code 4S, 1000 Eaton Boulevard
Cleveland, OH 44122

Subject: Monitoring Well Construction
Permit # WM0500964
Eaton Facility (former)
1100 East Preston Street
Selma, NC-Johnston County

Dear Mr. Allen;

In accordance with the application received on August 7, 2013, and the additional requested information received on August 15, 2013, we are forwarding herewith Monitoring Well Construction Permit No. WM0500964 dated August 16, 2013, issued for the construction of a monitor well system (installation of five wells) at the subject properties (1100 East Preston Street and 404 East Preston Street). **Please be aware that some counties have well construction programs, and you may be required to obtain a well construction permit before installation.**

This Permit will be effective from the date of its issuance and shall be subject to the conditions and limitations as specified therein. Please note the addition of stipulation #3 to the permit enclosed.

Sincerely,

Rick Bolich, L.G.
Environmental Regional Supervisor

Enclosure

cc: RRO Files
Johnston County Health Department
Jody Overmyer, Solutions-IES, 110 Nowell Road,
Raleigh, NC 27607

Aquifer Protection Section
1628 Mail Service Center, Raleigh, North Carolina 27699-1628
Location: 3800 Barrett Dr., Raleigh, North Carolina 27609
Phone: 919-791-4200 \ FAX: 919-571-4718
internet: www.ncwaterquaiity.org

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One NorthCarolina Naturally

NORTH CAROLINA
DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
DIVISION OF WATER RESOURCES – AQUIFER PROTECTION SECTION
PERMIT FOR THE CONSTRUCTION OF A MONITORING WELL

In accordance with the provisions of Article 7, Chapter 87, North Carolina General Statutes, and other applicable Laws, Rules and Regulations.

PERMISSION IS HEREBY GRANTED TO

Eaton Corporation

FOR THE CONSTRUCTION OF A MONITOR WELL SYSTEM (Eaton Facility-former) consisting of five wells owned by Eaton Corporation at mailing address 1000 Eaton Boulevard in Cleveland, OH. The wells will be located on the property owned by Johnston County Industries, Inc. at 1100 East Preston Street and NSEW Corporation located at 404 East Preston Street in Selma, NC-Johnston County. This Permit is issued in accordance with the application received on August 7, 2013, and the additional requested information received on August 15, 2013, in conformity with specifications and supporting data, all of which are filed with the Department of Environment and Natural Resources and are considered integral parts of this Permit.

This Permit is for **well construction only**, and does not waive any provision or requirement of any other applicable law or regulation. Construction of any well under this Permit shall be in strict compliance with the North Carolina Well Construction Regulations and Standards (15A NCAC 02C .0100), and other State and Local Laws and regulations pertaining to well construction.

If any requirements or limitations specified in this Permit are unacceptable, you have a right to an adjudicatory hearing upon written request within 30 days of receipt of this Permit. The request must be in the form of a written petition conforming to Chapter 150B of the North Carolina General Statutes and filed with the Office of Administrative Hearings, 6714 Mail Service Center, Raleigh, North Carolina 27699-6714. Unless such a demand is made, this Permit is final and binding.

This Permit will be effective for one year from the date of its issuance and shall be subject to other specified conditions, limitations, or exceptions as follows:

1. Issuance of this Permit does not obligate reimbursement from State trust funds, if these wells are being installed as part of an investigation for contamination from an underground storage tank or dry cleaner incident.
2. Issuance of this Permit does not supersede any other agreement, permit, or requirement issued by another agency.
3. The well(s) shall be located and constructed as shown on the attachments submitted as part of the Permit application.
4. Each well shall have a Well Contractor Identification Plate in accordance with 15A NCAC 02C .0108(o).
5. Well construction records (GW-1) for each well shall be submitted to the Division of Water Resource's Information Processing Unit within 30 days of the well completion.
6. When the well is discontinued or abandoned, it shall be abandoned in accordance with 15A NCAC 02C .0113 and a well abandonment record (GW-30) shall be submitted to the Division of Water Resource's Information Processing Unit within 30 days of the well abandonment.
7. If the well penetrates any water-bearing zone that contains contaminated waters, the upper three feet of the well shall be grouted within one day after the casing is set or the well abandoned.

Permit issued the 16th of August 2013

FOR THE NORTH CAROLINA ENVIRONMENTAL MANAGEMENT COMMISSION

Rick Bolich L.G., Regional Supervisor
Division of Water Resources
By Authority of the Environmental Management Commission
Permit No. WM0500964

NORTH CAROLINA DEPARTMENT OF ENVIRONMENT & NATURAL RESOURCES
DIVISION OF WATER QUALITY – AQUIFER PROTECTION SECTION

APPLICATION FOR PERMIT TO CONSTRUCT A MONITORING OR RECOVERY WELL SYSTEM

PLEASE TYPE OR PRINT CLEARLY

In accordance with the provisions of Article 7, Chapter 87, General Statutes of North Carolina and regulations pursuant thereto, application is hereby made for a permit to construct monitoring or recovery wells.

FOR OFFICE USE ONLY
PERMIT NO. WM0500964 ISSUED DATE August 16, 2013

1. Date: July 3, 2013
2. County: Johnston
3. What type of well are you applying for? (monitoring or recovery): Monitoring
4. Applicant: Eaton Corporation Telephone: (440) 523-4777
   Applicant's Mailing Address: Mail Code 4S, 1000 Eaton Boulevard, Cleveland, OH 44122
   Applicant's Email Address (if available): Jeffrey Allen : jeffpallen@eaton.com
5. Contact Person (if different than Applicant): Jody Overmyer Telephone: (919) 873-1060 x163
   Contact Person's Mailing Address: 1101 Nowell Road Raleigh, NC 27607
   Contact Person's Email Address (if available): jovermyer@solutions-ies.com
6. Property Owner (if different than Applicant): Johnston County Industries, Inc. Telephone: (919) 743-8712
   Property Owner's Mailing Address: 1100 East Preston Street, Selma, NC 27576
   Property Owner's Email Address (if available): Bill Sharek: bill.sharek@jcindustries.com
7. Property Physical Address (including zip code) and PIN Number 1100 East Preston Street, Selma, NC 27576 (261410-26-9923)
8. Reason for Well(s): Assessment/Remediation
   (ex: non-discharge permit requirements, suspected contamination, assessment, groundwater contamination, remediation, etc.)
9. Type of facility or site for which the well(s) is(are) needed: Former manufacturing plan
   (ex: non-discharge facility, waste disposal site, landfill, UST, etc.)
10. Are there any current water quality permits or incidents associated with this facility or site? If so, list permit and/or incident no(s).
    NA
11. Type of contaminants being monitored or recovered: VOCs
    (ex: organics, nutrients, heavy metals, etc.)
12. Are there any existing wells associated with the proposed well(s)? If yes, how many? No
    Existing Monitoring or Recovery Well Construction Permit No(s).: NA
13. Distance from proposed well(s) to nearest known waste or pollution source (in feet): 0
14. Are there any water supply wells located less than 500 feet from the proposed well(s)? No
    If yes, give distance(s): NA
15. Well Contractor: Geologic Exploration, Inc. Certification No.: TBD
    Well Contractor Address: 176 Commerce Boulevard, Statesville, NC 28625

PROPOSED WELL CONSTRUCTION INFORMATION

1. As required by 15A NCAC 02C .0105(f)(7), attach a well construction diagram of each well showing the following:

   a. Borehole and well diameter
   b. Estimated well depth
   c. Screen intervals
   d. Sand/gravel pack intervals
   e. Type of casing material and thickness
   f. Grout horizons
   g. Well head completion details

Continued on Reverse

PROPOSED WELL CONSTRUCTION INFORMATION (Continued)

2. Number of wells to be constructed in unconsolidated material: 3

3. Number of wells to be constructed in bedrock: 0

4. Total Number of wells to be constructed: 3
(*add answers from 2 and 3*)

5. How will the well(s) be secured? Flush-mount with locking cap

6. Estimated beginning construction date: 9/16/13

7. Estimated construction completion date: 9/20/13

ADDITIONAL INFORMATION

1. As required by 15A NCAC 02C .0105(f)(5), attach a scaled map of the site showing the locations of the following:

   a. All property boundaries, at least one of which is referenced to a minimum of two landmarks such as identified roads, intersections, streams, or lakes within 500 feet of the proposed well or well system.
   b. All existing wells, identified by type of use, within 500 feet of the proposed well or well system.
   c. The proposed well or well system.
   d. Any test borings within 500 feet of proposed well or well system.
   e. All sources of known or potential groundwater contamination (such as septic tank systems, pesticide, chemical or fuel storage areas, animal feedlots as defined in G.S. 143-215.10B(5), landfills, or other waste disposal areas) within 500 feet of the proposed well or well system.

SIGNATURES

The Applicant hereby agrees that the proposed well(s) will be constructed in accordance with approved specifications and conditions of this Well Construction Permit as regulated under the Well Construction Standards (Title 15A of the North Carolina Administrative Code, Subchapter 2C) and accepts full responsibility for compliance with these rules

Karen E. Souza
Signature of Applicant or *Agent

AGENT FOR EATON CORPORATION
Title of Applicant or *Agent

KAREN E. SOUZA
Printed name of Applicant or *Agent

** If signing as Agent, attach authorization agreement stating that you have the authority to act as the Agent.*

If the property is owned by someone other than the applicant, the property owner hereby consents to allow the applicant to construct wells as outlined in this Well Construction Permit application and that it shall be the responsibility of the applicant to ensure that the well(s) conform to the Well Construction Standards (Title 15A of the North Carolina Administrative Code, Subchapter 2C).

C.W. SHAREK, JR.
Signature of Property Owner (if different than Applicant)

Johnston County Industries, Inc.
Printed name of Property Owner (if different than Applicant)

DIRECTIONS

Please send the completed application to the appropriate Division of Water Quality's Aquifer Protection Section Regional Office:

Asheville Regional Office
2090 U.S. Highway 70
Swannanoa, NC 28778
Phone: (828) 296-4500
Fax: (828) 299-7043

Raleigh Regional Office
3800 Barrett Drive
Raleigh, NC 27609
Phone: (919) 791-4200
Fax: (919) 571-4718

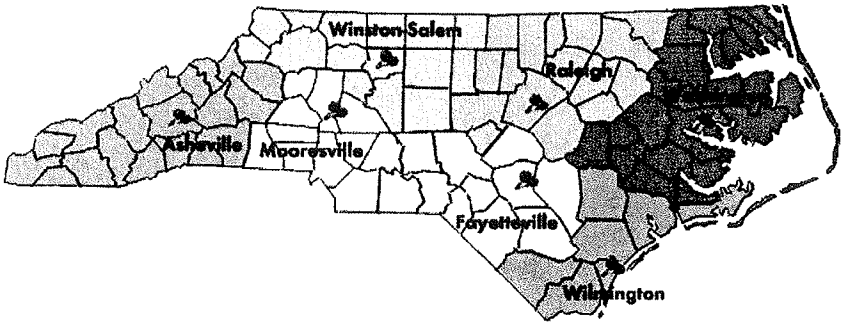
Wilmington Regional Office
127 Cardinal Drive Extension
Wilmington, NC 28405
Phone: (910) 796-7215
Fax: (910) 350-2004

Fayetteville Regional Office
225 Green Street, Suite 714
Fayetteville, NC 28301-5094
Phone: (910) 433-3300
Fax: (910) 486-0707

Washington Regional Office
943 Washington Square Mall
Washington, NC 27889
Phone: (252) 946-6481
Fax: (252) 975-3716

Winston-Salem Regional Office
585 Waughtown Street
Winston-Salem, NC 27107
Phone: (336) 771-5000
Fax: (336) 771-4630

Mooresville Regional Office
610 East Center Avenue
Mooresville, NC 28115
Phone: (704) 663-1699
Fax: (704) 663-6040



NORTH CAROLINA DEPARTMENT OF ENVIRONMENT & NATURAL RESOURCES
DIVISION OF WATER QUALITY – AQUIFER PROTECTION SECTION

APPLICATION FOR PERMIT TO CONSTRUCT A MONITORING OR RECOVERY WELL SYSTEM

PLEASE TYPE OR PRINT CLEARLY

In accordance with the provisions of Article 7, Chapter 87, General Statutes of North Carolina and regulations pursuant thereto, application is hereby made for a permit to construct monitoring or recovery wells.

FOR OFFICE USE ONLY
PERMIT NO. WM0500964 ISSUED DATE August 16, 2013

1. Date: July 17, 2013
2. County: Johnston
3. What type of well are you applying for? (monitoring or recovery): Monitoring
4. Applicant: Eaton Corporation Telephone: (440) 523-4777
   Applicant's Mailing Address: Mail Code 4S, 1000 Eaton Boulevard, Cleveland, OH 44122
   Applicant's Email Address (if available): Jeffrey Allen : jeffpallen@eaton.com
5. Contact Person (if different than Applicant): Jody Overmyer Telephone: (919) 873-1060
   Contact Person's Mailing Address: 1101 Nowell Road Raleigh, NC 27607
   Contact Person's Email Address (if available): jovermyer@solutions-ies.com
6. Property Owner (if different than Applicant): NSEW Corporation Telephone: (919) 965-2303
   Property Owner's Mailing Address: PO Box 398, Selma, NC 27576
   Property Owner's Email Address (if available): Albert Daniel Jr.: albert@baileyfeedmill.com
7. Property Physical Address (including zip code) and PIN Number 404 East Preston Street, Selma, NC 27576 (261406-27-8833)
8. Reason for Well(s): Assessment/Remediation
   (ex: non-discharge permit requirements, suspected contamination, assessment, groundwater contamination, remediation, etc.)
9. Type of facility or site for which the well(s) is(are) needed: Former manufacturing plant
   (ex: non-discharge facility, waste disposal site, landfill, UST, etc.)
10. Are there any current water quality permits or incidents associated with this facility or site? If so, list permit and/or incident no(s).
    NA
11. Type of contaminants being monitored or recovered: VOCs
    (ex: organics, nutrients, heavy metals, etc.)
12. Are there any existing wells associated with the proposed well(s)? If yes, how many? No
    Existing Monitoring or Recovery Well Construction Permit No(s).: NA
13. Distance from proposed well(s) to nearest known waste or pollution source (in feet): 0
14. Are there any water supply wells located less than 500 feet from the proposed well(s)? No
    If yes, give distance(s): NA
15. Well Contractor: Geologic Exploration, Inc. Certification No.: TBD
    Well Contractor Address: 176 Commerce Boulevard, Statesville, NC 28625

PROPOSED WELL CONSTRUCTION INFORMATION

1. As required by 15A NCAC 02C .0105(f)(7), attach a well construction diagram of each well showing the following:

   a. Borehole and well diameter
   b. Estimated well depth
   c. Screen intervals
   d. Sand/gravel pack intervals
   e. Type of casing material and thickness
   f. Grout horizons
   g. Well head completion details

Continued on Reverse

PROPOSED WELL CONSTRUCTION INFORMATION (Continued)

2. Number of wells to be constructed in unconsolidated material: 2
3. Number of wells to be constructed in bedrock: 0
4. Total Number of wells to be constructed: 2 (*add answers from 2 and 3*)
5. How will the well(s) be secured? Flush-mount with locking cap
6. Estimated beginning construction date: 9/16/13
7. Estimated construction completion date: 9/20/13

ADDITIONAL INFORMATION

1. As required by 15A NCAC 02C .0105(f)(5), attach a scaled map of the site showing the locations of the following:
   a. All property boundaries, at least one of which is referenced to a minimum of two landmarks such as identified roads, intersections, streams, or lakes within 500 feet of the proposed well or well system.
   b. All existing wells, identified by type of use, within 500 feet of the proposed well or well system.
   c. The proposed well or well system.
   d. Any test borings within 500 feet of proposed well or well system.
   e. All sources of known or potential groundwater contamination (such as septic tank systems, pesticide, chemical or fuel storage areas, animal feedlots as defined in G.S. 143-215.10B(5), landfills, or other waste disposal areas) within 500 feet of the proposed well or well system.

SIGNATURES

The Applicant hereby agrees that the proposed well(s) will be constructed in accordance with approved specifications and conditions of this Well Construction Permit as regulated under the Well Construction Standards (Title 15A of the North Carolina Administrative Code, Subchapter 2C) and accepts full responsibility for compliance with these rules

Signature of Applicant or *Agent / Karen E. Souza

Title of Applicant or *Agent: PRESIDENT / AGENT FOR EATON

Printed name of Applicant or *Agent: ALBERT DANIEL / KAREN E. SOUZA

** If signing as Agent, attach authorization agreement stating that you have the authority to act as the Agent.*

If the property is owned by someone other than the applicant, the property owner hereby consents to allow the applicant to construct wells as outlined in this Well Construction Permit application and that it shall be the responsibility of the applicant to ensure that the well(s) conform to the Well Construction Standards (Title 15A of the North Carolina Administrative Code, Subchapter 2C).

Signature of Property Owner (if different than Applicant): ALBERT DANIEL

Printed name of Property Owner (if different than Applicant): NSEW Corporation

DIRECTIONS

Please send the completed application to the appropriate Division of Water Quality's Aquifer Protection Section Regional Office:

Asheville Regional Office
2090 U.S. Highway 70
Swannanoa, NC 28778
Phone: (828) 296-4500
Fax: (828) 299-7043

Raleigh Regional Office
3800 Barrett Drive
Raleigh, NC 27609
Phone: (919) 791-4200
Fax: (919) 571-4718

Wilmington Regional Office
127 Cardinal Drive Extension
Wilmington, NC 28405
Phone: (910) 796-7215
Fax: (910) 350-2004

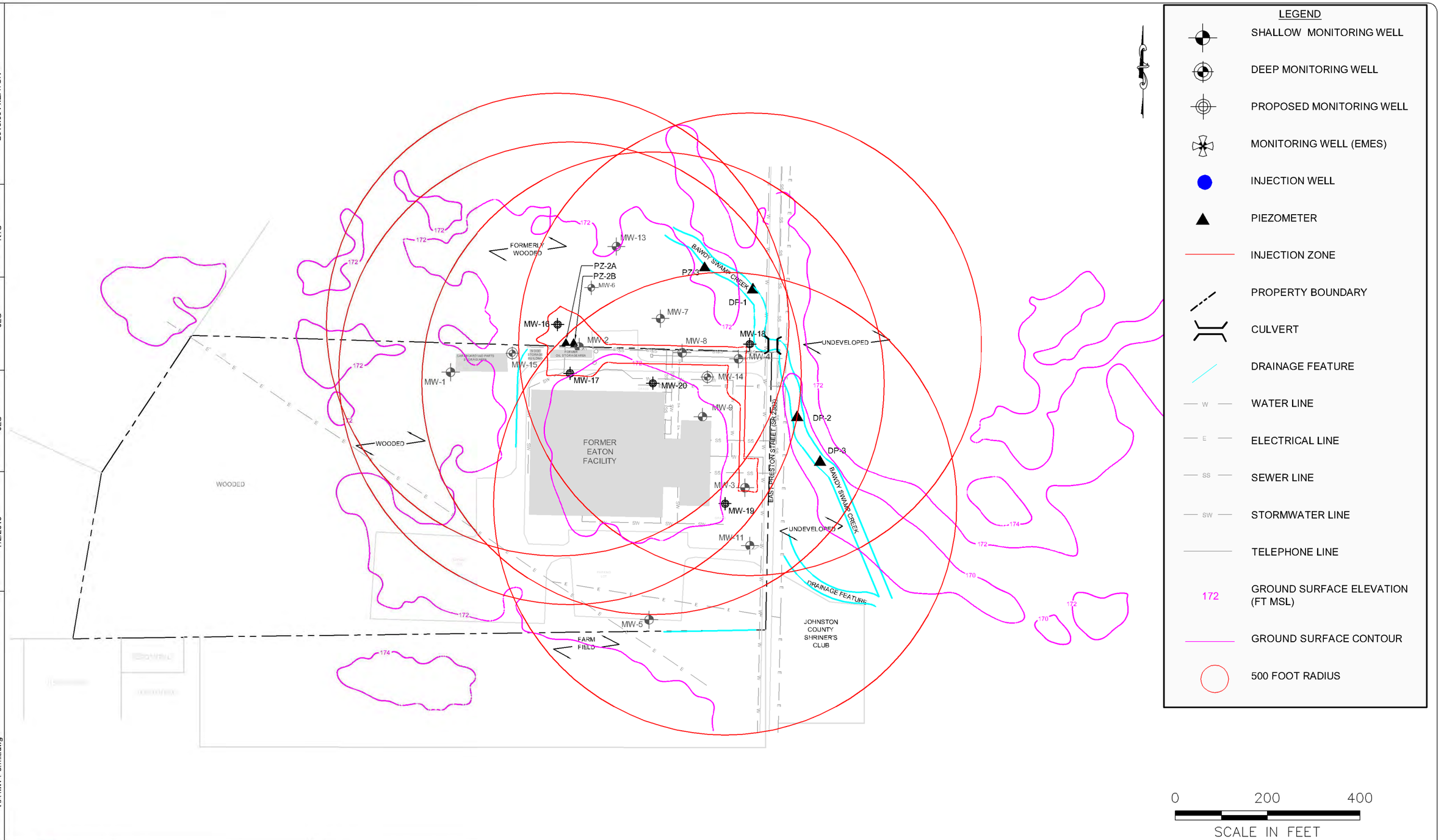
Fayetteville Regional Office
225 Green Street, Suite 714
Fayetteville, NC 28301-5094
Phone: (910) 433-3300
Fax: (910) 486-0707

Washington Regional Office
943 Washington Square Mall
Washington, NC 27889
Phone: (252) 946-6481
Fax: (252) 975-3716

Winston-Salem Regional Office
585 Waughtown Street
Winston-Salem, NC 27107
Phone: (336) 771-5000
Fax: (336) 771-4630

Mooresville Regional Office
610 East Center Avenue
Mooresville, NC 28115
Phone: (704) 663-1699
Fax: (704) 663-6040

PROJECT NUMBER 2013.0014.EATON | DRAFTER KTS | CHECKED BY JLO | PROJECT MANAGER JLO | DATE 7/2/2013 | FILE RA MW Permit.dwg



Solutions-IES
Industrial & Environmental Services
1101 NOWELL ROAD
RALEIGH, NORTH CAROLINA 27607
TEL.: (919) 873-1060 FAX.: (919) 873-1074

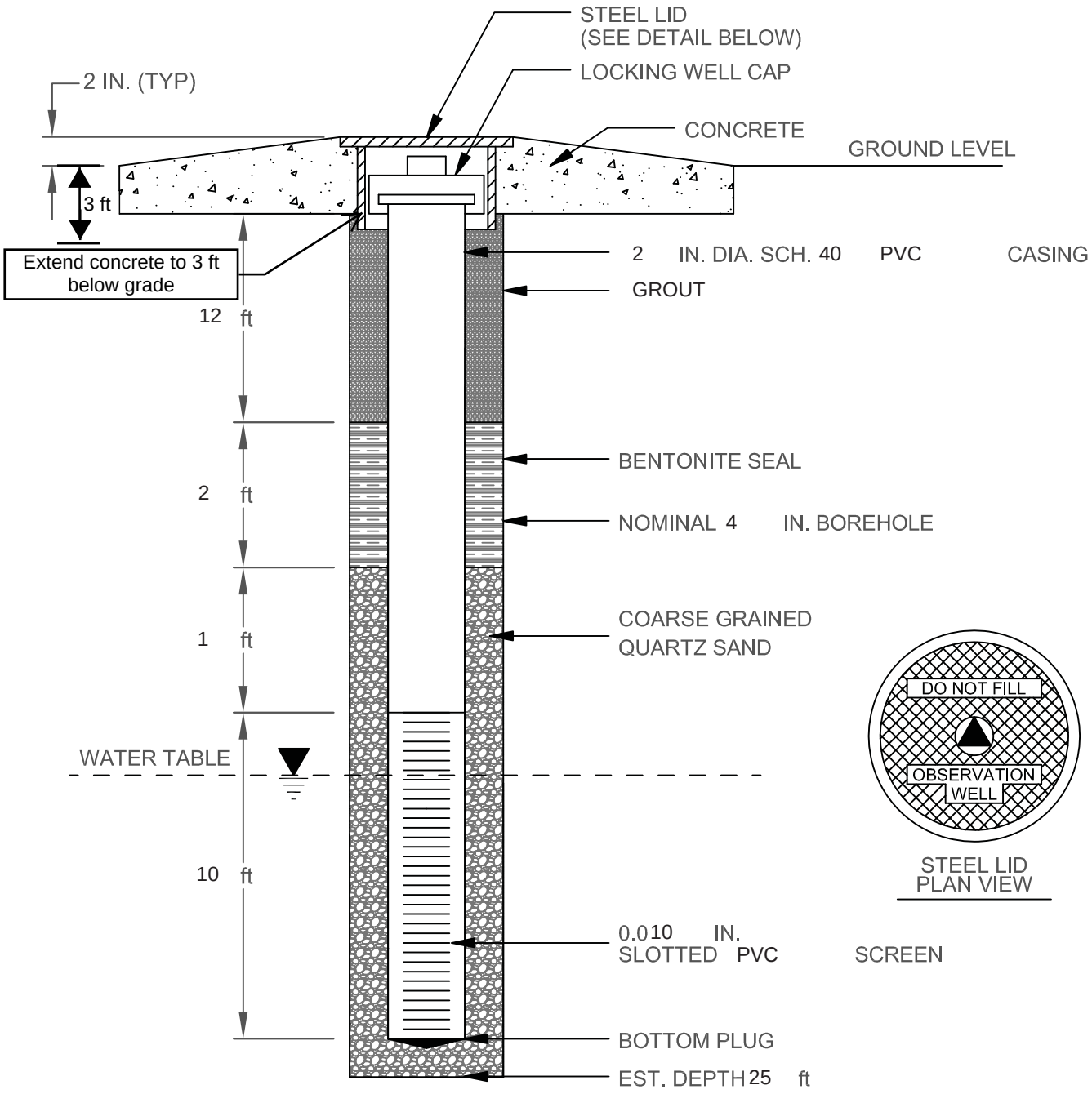
NOTES:
1) BASEMAP OBTAINED FROM JIMMY BARBOUR SURVEYING, PA, APRIL 2008 .
2) WELL LOCATIONS ARE BASED ON SURVEY DATA PROVIDED BY KCI ASSOCIATES OF N.C. JUNE 2008 & JULY 2010.
3) GROUND SURFACE CONTOUR LINES FROM JOHNSTON COUTY GIS.

FORMER EATON FACILITY
1100 EAST PRESTON STREET
SELMA, JOHNSTON COUNTY, NC

SITE MAP

FIGURE: 1

J:\Project Files\Eaton Corporation\Eaton Selma\CAD\Current Drawings\Permit File\RA MW Permit.dwg



MONITORING WELL
TYPE II
NOT TO SCALE

PROJECT NUMBER 2013.0014.EATN
DRAFTER JLO
CHECKED BY NS
PROJECT MANAGER JLO
DATE 6/27/2013
FILE Fig 2 - Well Constr.pdf

Solutions-IES
Industrial & Environmental Services
1101 NOWELL ROAD
RALEIGH, NORTH CAROLINA 27607
TEL.: (919) 873-1060 FAX.: (919) 873-1074

PROPOSED PERMANENT MONITORING WELL DIAGRAM
MW-16 THROUGH MW-20
1100 EAST PRESTON STREET
SELMA, NC

FIGURE: 2

EATON
Powering Business Worldwide

1111 Superior Ave
Cleveland, Ohio 44114
Tel: 216-523-4777
Fax: 216-479-7223

February 10, 2012

Ms. Karen Souza, P.G.
Allegheny Environmental Services, Inc.
28 Oak Knoll Drive
Pittsburgh, PA 15238

RE: Agreement to Sign North Carolina REC Certification Pages on Behalf of Eaton Corporation

Dear Ms. Souza:

Eaton Corporation is mindful of the rules governing signature of certification pages within the North Carolina Registered Environmental Consultant (REC) Program under 15A NCAC 13C .0306. As such, Eaton Corporation grants you the permission to sign North Carolina REC Certification pages on our behalf.

Yours Truly,

Jeffrey Allen, PG, CHMM
Manager, Growth, Acquisitions and Remediation
Environment, Health, Safety and Security

APPENDIX J

INJECTION PERMIT WI0500657

North Carolina Department of Environment and Natural Resources
Division of Water Resources
Water Quality Programs

Pat McCrory
Governor

Thomas A. Reeder
Director

John E. Skvarla, III
Secretary

September 13, 2013

Mr. Jeffrey Allen, Manager
Eaton Corporation
Mail Code 4S
1000 Eaton Blvd.
Cleveland, OH 44122

Ref: Issuance of Injection Permit WI0500657
Eaton Corporation
Johnston County, North Carolina

Dear Mr. Allen:

In accordance with the application received on August 5, 2013, and additional information received August 26, 2013, and September 6, 2013, we are forwarding permit number WI0500657. This permit is to inject EOS XR, CoBupH-Mg, and BAC-9 for the enhanced bioremediation of volatile organic compounds (VOCs) products. These injection wells/points will be located at the Johnston County Industries, Inc. (Former Eaton Corporation Facility) 1100 East Preston Street, Selma, Johnston County, NC 27576. This permit shall be effective from September 13, 2013, until August 31, 2018, and shall be subject to the conditions and limitations stated therein, including the requirement to submit a Final Project Evaluation (FPE) as stated in PART VII – MONITORING AND REPORTING REQUIREMENTS. Please read the entire permit to ensure that you are aware of all compliance requirements of the permit.

Please note the following:

- **Per permit condition Part VII.1, the proposed monitoring plan included in the application has been modified to include monitoring surface water/drainage areas for indications of day lighting as well as storm and sanitary sewers during injection activities;**

- **Per permit condition Part VII.6, prior to closing this permit, the Permittee must meet groundwater quality standards or pre-injection levels, whichever concentration is higher, for all of the injection constituents; otherwise, continued monitoring as approved in the monitoring plan will be required until such levels can be established;**

1636 Mail Service Center, Raleigh, North Carolina 27699-1636
Location: 512 N. Salisbury St. Raleigh, North Carolina 27604
Phone: 919-807-6464 \ FAX: 919-807-6496
Internet: www.ncwaterquality.org

An Equal Opportunity \ Affirmative Action Employer

- **Per permit conditions Part VII.4 &5, and IX.2(G), within 30 days after each injection event, please provide the well construction (if not previously submitted) and injection information on the applicable forms listed below. Note: if well construction/abandonment information is essentially the same (e.g., direct push points or geo-probes), then only one GW-1 or GW-30 form is needed. Just indicate in the comments section on the form the total number of well points. These forms are available on the Division of Water Resources's website at http://portal.ncdenr.org/web/wq/aps/gwpro/reporting-forms**

  - **Injection Event Record**
  - **Well Construction Record (GW-1)**
  - **Well Abandonment Record (GW-30)**

In order to continue uninterrupted legal use of this well for the stated purpose, you should submit an application to renew the permit 120 days prior to its expiration date. As indicated in the permit, this permit is not transferable to any person without prior notice to, and approval by, the Director of the Division of Water Resources. If you have any questions regarding your permit or the Underground Injection Control Program please call me at (919) 807-6406.

Best Regards,

Michael Rogers

Michael Rogers, P.G. (NC & FL)
Hydrogeologist

cc: Rick Bolich, Raleigh Regional Office
Central Office File, WI0500657
Karen Souza, Allegheny Environmental Services, Inc., 28 Oak Knoll Dr., Pittsburgh, PA 15238
Jody Overmyer, Solutions-IES, Inc., 1101 Nowell Road, Raleigh, NC 27607

NORTH CAROLINA

ENVIRONMENTAL MANAGEMENT COMMISSION

DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
RALEIGH, NORTH CAROLINA

PERMIT FOR THE CONSTRUCTION AND OPERATION OF A WELL FOR INJECTION

In accordance with the provisions of Article 7, Chapter 87; Article 21, Chapter 143, and other applicable Laws, Rules, and Regulations

PERMISSION IS HEREBY GRANTED TO

Eaton Corporation

FOR THE CONSTRUCTION AND/OR OPERATION OF **60 (SIXTY)** *IN SITU* REMEDIATION/TRACER INJECTION WELLS, defined in Title 15A North Carolina Administrative Code 2C .0209(5)(b)(viii), to inject EOS XR, CoBupH-Mg, and BAC-9 for the remediation of groundwater contaminated with volatile organic compounds (VOCs) products. These injection wells/points will be located at the Johnston County Industries, Inc. (Former Eaton Corporation Facility) 1100 East Preston Street, Selma, Johnston County, NC 27576, and will be operated in accordance with the application submitted August 5, 2013, and in conformity with the specifications and supporting data submitted August 26, 2013, and September 6, 2013, all of which are filed with the Department of Environment and Natural Resources and are considered a part of this permit.

This permit is for Construction and Operation only, and does not waive any provisions of the Water Use Act or any other applicable Laws, Rules, or Regulations. Operation and use of an injection well shall be in compliance with Title 15A North Carolina Administrative Code 2C .0100 and .0200, and any other Laws, Rules, and Regulations pertaining to well construction and use.

This permit shall be effective, unless revoked, from the date of its issuance until August 31, 2018, and shall be subject to the specified conditions and limitations set forth in Parts I through X hereof.

Permit issued this the 13th day of September, 2013.

Thomas A. Reeder, Director
Division of Water Resources

By Authority of the Environmental Management Commission.

PART I - WELL CONSTRUCTION GENERAL CONDITIONS

1. The Permittee must comply with all conditions of this permit and with the standards and criteria specified in Criteria and Standards Applicable to Injection Wells (15A NCAC 2C .0200). Any noncompliance with conditions of this permit constitutes a violation of the North Carolina Well Construction Act and is grounds for enforcement action as provided for in N.C.G.S. 87-94.

2. This permit shall become voidable unless the facility is constructed in accordance with the conditions of this permit, the approved plans and specifications, and other supporting data.

3. This permit is valid only for construction of the number of injection wells described in the application and other supporting data. Construction of additional injection wells must be approved in advance by the Aquifer Protection Section.

4. Each injection well shall not hydraulically connect separate aquifers.

5. Each injection well shall be constructed in such a manner that water from land surface cannot migrate into the gravel pack or well screen.

6. Each injection well shall be secured to reasonably insure against unauthorized access and use. Each well shall be permanently labeled with a warning that it is for injection purposes and the entrance to each well must be secured with a locking cap.

7. Each injection well shall be afforded reasonable protection against damage during construction and use.

8. Each injection well shall have permanently affixed an identification plate.

PART II - WELL CONSTRUCTION SPECIAL CONDITIONS

1. At least forty-eight (48) hours prior to constructing each injection well, the Permittee shall notify the Aquifer Protection Section-Underground Injection Control (UIC) Central Office staff, telephone number 919-807-6406 and the Raleigh Regional Office Aquifer Protection Section Staff, telephone number 919-791-4200.

2. Bentonite grout shall not be used to seal any water-bearing zone with a chloride concentration equal to or greater than 1,500 milligrams per liter. In areas where elevated chloride levels are known to exist or are probable, such as coastal areas, chloride levels shall be verified in the field to determine existing conditions.

PART III - OPERATION AND USE GENERAL CONDITIONS

1. This permit is effective only with respect to the nature, volume of materials, rate of injection, and number of injection wells as described in the application and other supporting data.

2. This permit is not transferable without prior notice to, and approval by, the Director of the Division of Water Resources (Director). In the event there is a desire for the facility to change ownership, or there is a name change of the Permittee, a formal permit amendment request must be submitted to the Director, including any supporting materials as may be appropriate, at least 30 days prior to the date of the change.

3. The issuance of this permit shall not relieve the Permittee of the responsibility of complying with any and all statutes, rules, regulations, or ordinances that may be imposed by other local, state, and federal agencies having jurisdiction. Furthermore, the issuance of this permit does not imply that all regulatory requirements have been met.

PART IV - PERFORMANCE STANDARDS

1. The injection facility shall be effectively maintained and operated at all times so that there is no contamination of groundwater which will render it unsatisfactory for normal use.

2. In the event that the facility fails to perform satisfactorily, including the creation of nuisance conditions or failure of the injection zone to adequately assimilate the injected fluid, the Permittee shall take immediate corrective actions including those actions that may be required by the Division of Water Resources such as the repair, modification, or abandonment of the injection facility.

3. The Permittee shall be required to comply with the terms and conditions of this permit even if compliance requires a reduction or elimination of the permitted activity.

4. The issuance of this permit shall not relieve the Permittee of the responsibility for damages to surface or groundwater resulting from the operation of this facility.

PART V - OPERATION AND MAINTENANCE REQUIREMENTS

1. The injection facility shall be properly maintained and operated at all times.

2. The Permittee must notify the Division and receive prior written approval from the Director of any planned alterations or additions in the permitted facility or activity not specifically authorized by the permit.

3. At least forty-eight (48) hours prior to the initiation of the operation of the facility for injection, the Permittee must notify by telephone the Aquifer Protection Section-UIC, Central Office staff, telephone number 919-807-6406. Notification is required so that Division staff can inspect or otherwise review the injection facility and determine if it is in compliance with permit conditions.

PART VI - INSPECTIONS

1. Any duly authorized officer, employee, or representative of the Division of Water Resources may, upon presentation of credentials, enter and inspect any property, premises, or place on or related to the injection facility at any reasonable time for the purpose of determining compliance with this permit, may inspect or copy any records that must be maintained under the terms and conditions of this permit, and may obtain samples of groundwater, surface water, or injection fluids.

2. Department representatives shall have reasonable access for purposes of inspection, observation, and sampling associated with injection and any related facilities as provided for in N.C.G.S. 87-90.

3. Provisions shall be made for collecting any necessary and appropriate samples associated with the injection facility activities.

PART VII - MONITORING AND REPORTING REQUIREMENTS

1. The proposed monitoring plan included in the application, as presented below, shall be followed except that the Permittee shall monitor surface water/drainage areas for indications of day lighting as well as storm and sanitary sewers during injection activities.

Group A Monitoring Wells (16)
Shallow: MW-1, MW-2, MW-3, MW-4, MW-5, MW-8, MW-11, MW-9, MW-13, MW-16, MW-17, MW-18, MW-19, and MW-20 Deep: MW-14 and MW-15
Group B Monitoring Wells (5)
Shallow: MW-2, MW-4, MW-16, MW-18, and MW-19
Group C Monitoring Wells (9)
Shallow: MW-2, MW-4, MW-7, MW-8, MW-9, MW-16, MW-18, MW-19, and MW-20

Analysis	Baseline	3-Month	6-Month	9-Month	First Annual
Field Parameters					
Water Levels	Group A (16 wells)	Group C (9 wells)	Group C (9 wells)	Group C (9 wells)	Group A (16 wells)
DO, ORP, pH, Spec. Cond., Temperature					
Laboratory Parameters					
VOCs	Group A (16 wells)	Group C (9 wells)	Group C (9 wells)	Group C (9 wells)	Group A (16 wells)
Nitrate-N; sulfate					
Fe^{+3}/Fe^{+2}; Mg (total)					
TOC					
Alkalinity					
MEE					
VFA	Group B (5 wells)	Group B (5 wells)	Group B (5 wells)	Group B (5 wells)	Group B (5 wells)
DHC, TCE-reductase, VC-reductase		0		0	

2. Any additional monitoring, including groundwater, surface water, or soil sampling, deemed necessary by the Division of Water Resources to ensure surface water and groundwater protection may be established and an acceptable sampling reporting schedule shall be followed.

3. All sample results shall be submitted to the Aquifer Protection Section's Raleigh Regional Office and the Raleigh Central quarterly. Monitoring reports shall include, at a minimum, analytical data and an update on the status and location of monitoring and injection wells. Well locations may be given in a table with the name and geographic coordinates or shown on an updated version of the surveyor's base map.

4. Within 30 days of completion of well construction, a complete Well Construction Record (Form GW-1) shall be submitted to the addresses specified in Part VII.7 below.

5. The Permittee shall submit an Injection Event Record within 30 days of completing each injection.

6. The Permittee shall submit a final project evaluation within 9 months after completing all injection-related activity associated with this permit, or produce an interim evaluation to be submitted with a renewal application for this permit. Both the final project evaluation and interim evaluation shall contain historical monitoring data and updated contaminant plume and potentiometric surface maps. PLEASE NOTE: Prior to closing this permit, the Permittee must meet groundwater quality standards or pre-injection levels, whichever concentration is higher, for all of the injection constituents; otherwise, continued monitoring as approved in the monitoring plan will be required until such levels can be established.

7. All monitoring results, forms, and reports required in this Part shall be submitted to:

UIC Program Staff DWR – Aquifer Protection Section 1636 Mail Service Center Raleigh, NC 27699-1636	and	DWR - Aquifer Protection Section Raleigh Regional Office 1628 Mail Service Center Raleigh, NC 27699

8. The Permittee shall report by telephone, within 48 hours of the occurrence or first knowledge of the occurrence, to the Raleigh Regional Office, telephone number 919-791-4200, any of the following:

   (A) Any occurrence at the injection facility which results in any unusual operating circumstances;

   (B) Any failure due to known or unknown reasons, that renders the facility incapable of proper injection operations, such as mechanical or electrical failures.

9. Where the Permittee becomes aware of an omission of any relevant facts in a permit application, or of any incorrect information submitted in said application or in any report to the Director, the relevant and correct facts or information shall be promptly submitted to the Director by the Permittee.

10. In the event that the permitted facility fails to perform satisfactorily, the Permittee shall take such immediate action as may be required by the Director.

PART VIII - PERMIT RENEWAL

In order to continue uninterrupted legal use of the injection facility for the stated purpose, the Permittee must submit an application to renew the permit 120 days prior to its expiration date.

PART IX - CHANGE OF WELL STATUS

1. The Permittee shall provide written notification within 15 days of any change of status of an injection well. Such a change would include the discontinued use of a well for injection. If a well is taken completely out of service temporarily, the Permittee must install a sanitary seal. If a well is not to be used for any purpose that well must be permanently abandoned according to 15A NCAC 2C .0240, Well Construction Standards.

2. When operations have ceased at the facility and a well will no longer be used for any purpose, the Permittee shall abandon that injection well in accordance with the procedures specified in 15A NCAC 2C .0240, including but not limited to the following:

   (A) All casing and screen materials may be removed prior to initiation of abandonment procedures if such removal will not cause or contribute to contamination of the groundwaters.

   (B) The entire depth of each well shall be sounded before it is sealed to insure freedom from obstructions that may interfere with sealing operations.

   (C) The well shall be thoroughly disinfected, prior to sealing, if the Director determines that failure to do so could lead to the contamination of an underground source of drinking water.

   (D) Drilled wells shall be completely filled with cement grout or bentonite grout, which shall be introduced into the well through a pipe which extends to the bottom of the well and is raised as the well is filled.

   (E) In the case of gravel-packed wells in which the casing and screens have not been removed, neat-cement, or bentonite grout shall be injected into the well completely filling it from the bottom of the casing to the top.

   (F) In those cases when, as a result of the injection operations, a subsurface cavity has been created, each well shall be abandoned in such a manner that will prevent the movement of fluids into or between underground sources of drinking water and in accordance with the terms and conditions of the permit.

   (G) The Permittee shall submit a Well Abandonment Record (Form GW-30) as specified in 15A NCAC 2C .0225(k)(1)(A) within 30 days of completion of abandonment.

3. The written documentation required in Part IX (1) and (2) (G) shall be submitted to:

Aquifer Protection Section-UIC Program
DENR-Division of Water Resources
1636 Mail Service Center
Raleigh, NC 27699-1636

PART X – WORKER PRECAUTIONS DURING APPLICATION

1. Some effects reported to be associated with the product proposed to be used are as follows: eye, skin, nose, throat, and lung irritation. If the product is released into the environment in a way that could result in a suspension of fine solid or liquid particles (e.g., grinding, blending, vigorous shaking or mixing), then proper personal protective equipment should be used. The application process should be reviewed by an industrial hygienist to ensure that the most appropriate personal protective equipment is used.

2. Persons working with these products should wear goggles or a face shield, gloves, and protective clothing. Face and body protection should be used for anticipated splashes or sprays.

3. Eating, drinking, smoking, handling contact lenses, and applying cosmetics should not be permitted in the application area during or immediately following application.

4. Safety controls should be in place to ensure that the check valve and the pressure delivery systems are working properly.

5. The Material Safety Data Sheets should be followed to prevent incompatible or adverse reactions and injuries.

APPENDIX K

PROJECT SCHEDULE

GROUNDWATER REMEDIAL ACTION SCHEDULE
EATON SELMA
1100 EAST PRESTON STREET, SELMA, NORTH CAROLINA

ID	Task Name	Duration	Start
1	**Groundwater Remedial Action**	**311 days**	**Thu 9/12/13**
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10	Post-Injection Monitoring - 9 Months	1 day	Wed 8/20/14
11	Post-Injection Monitoring - 12 Months	1 day	Thu 11/20/14
12	**MNA Monitoring**	**4127 days**	**Mon 2/24/14**
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14	Year 0 - Quarter 1 Groundwater Monitoring Report	10 days	Tue 3/18/14
15	Year 0 - Quarter 2	2 days	Tue 5/20/14
16	Year 0 - Quarter 2 Groundwater Monitoring Report	10 days	Wed 6/11/14
17	Year 0 - Quarter 3	2 days	Wed 8/20/14
18	Year 0 - Quarter 3 Groundwater Monitoring Report	10 days	Thu 9/11/14
19	Year 0 - Quarter 4	2 days	Thu 11/20/14
20	Year 0 - Quarter 4 Groundwater Monitoring Report	10 days	Fri 12/12/14
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22	Year 1 - Semiannual 1 Groundwater Monitoring Re	10 days	Fri 6/12/15
23	Year 1 - Semiannual 2	2 days	Thu 11/19/15
24	Year 1 - Semiannual 2 Groundwater Monitoring Re	10 days	Fri 12/11/15
25	Year 2 - Semiannual 1	2 days	Thu 5/19/16
26	Year 2 - Semiannual 1 Groundwater Monitoring Re	10 days	Fri 6/10/16
27	Year 2 - Semiannual 2	2 days	Thu 11/17/16
28	Year 2 - Semiannual 2 Groundwater Monitoring Re	10 days	Fri 12/9/16
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42	Year 6 - Annual Groundwater Monitoring Report	10 days	Wed 12/2/20
43	Year 7 - Annual	2 days	Thu 11/11/21
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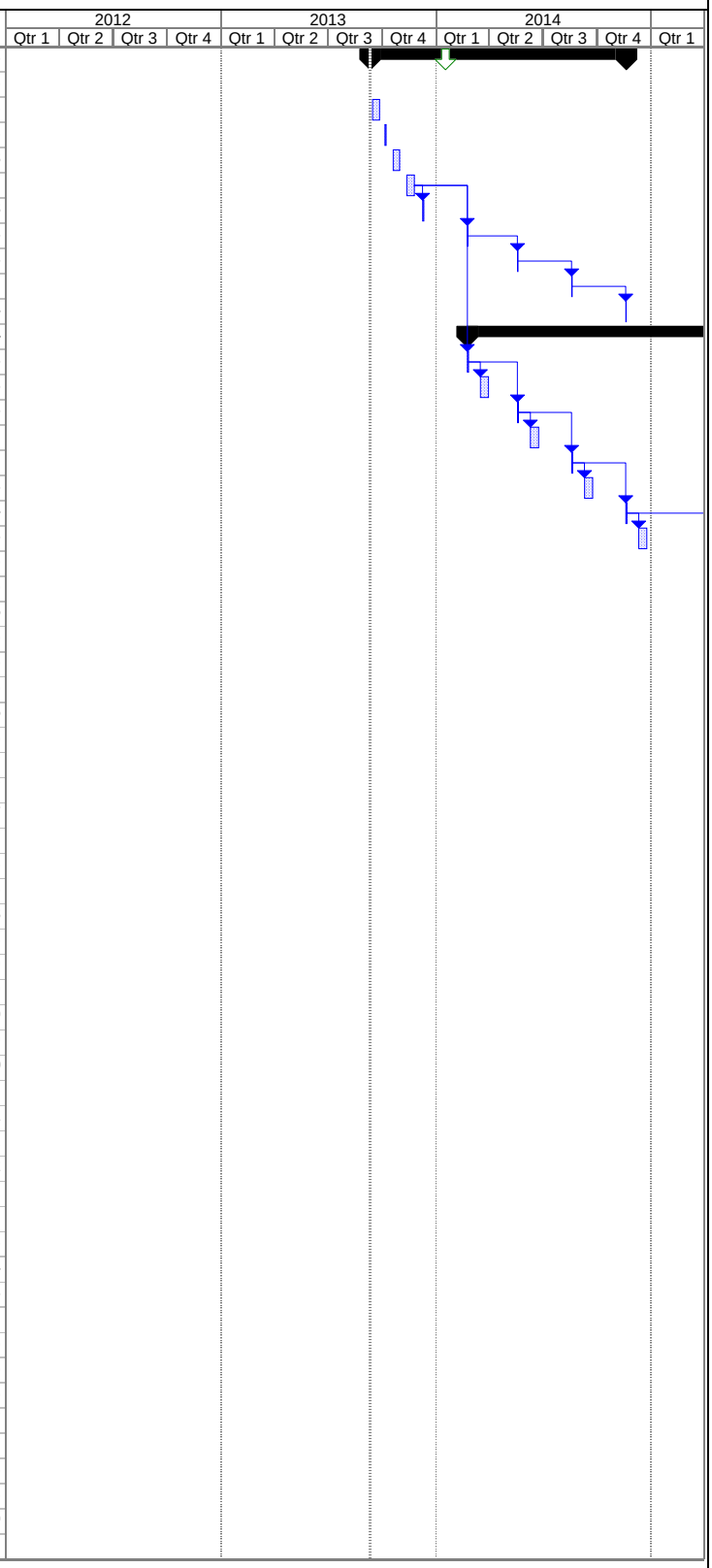

Project: Eaton Selma Groundwater Re
Date: Tue 9/10/13

Task		Milestone		External Tasks	
Split		Summary		External Milestone	
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1100 EAST PRESTON STREET, SELMA, NORTH CAROLINA

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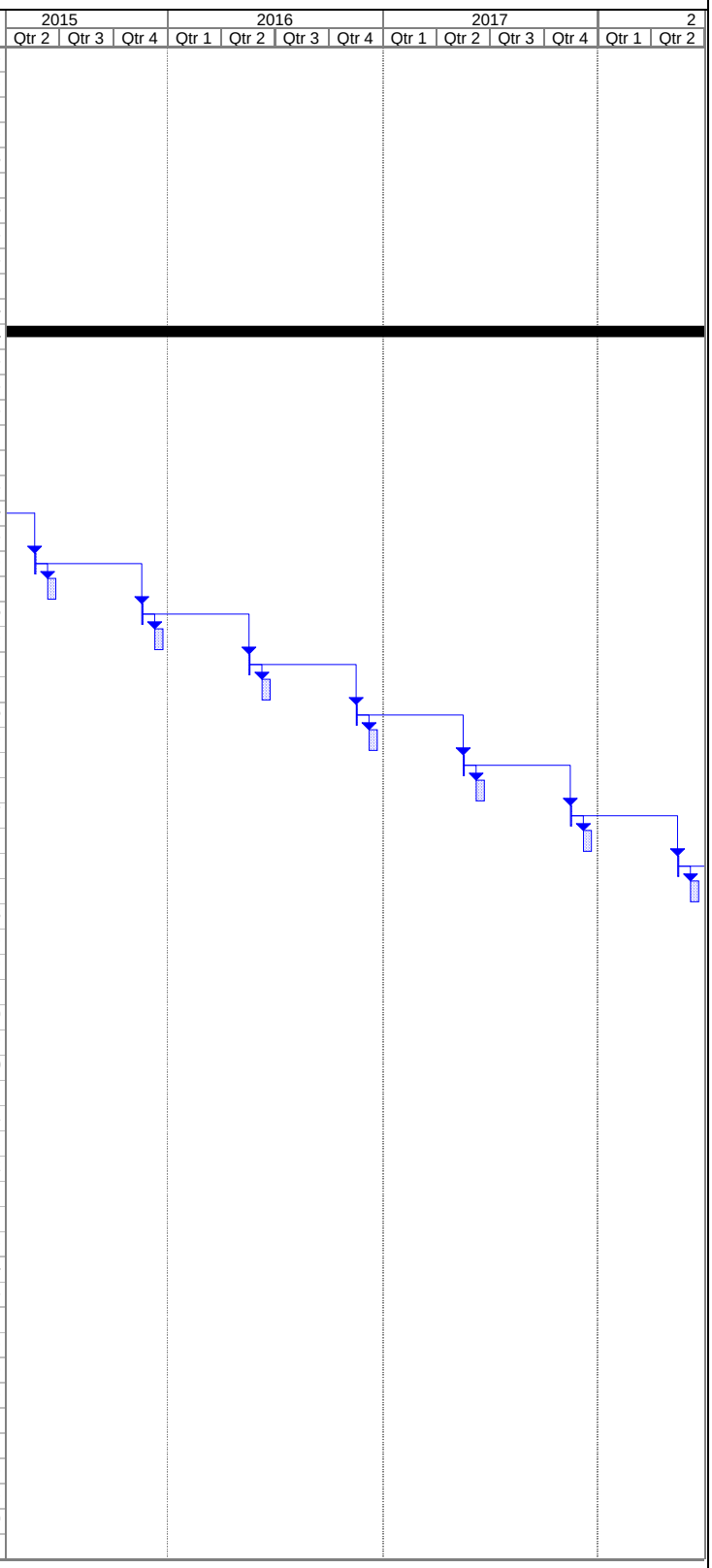

Project: Eaton Selma Groundwater Re
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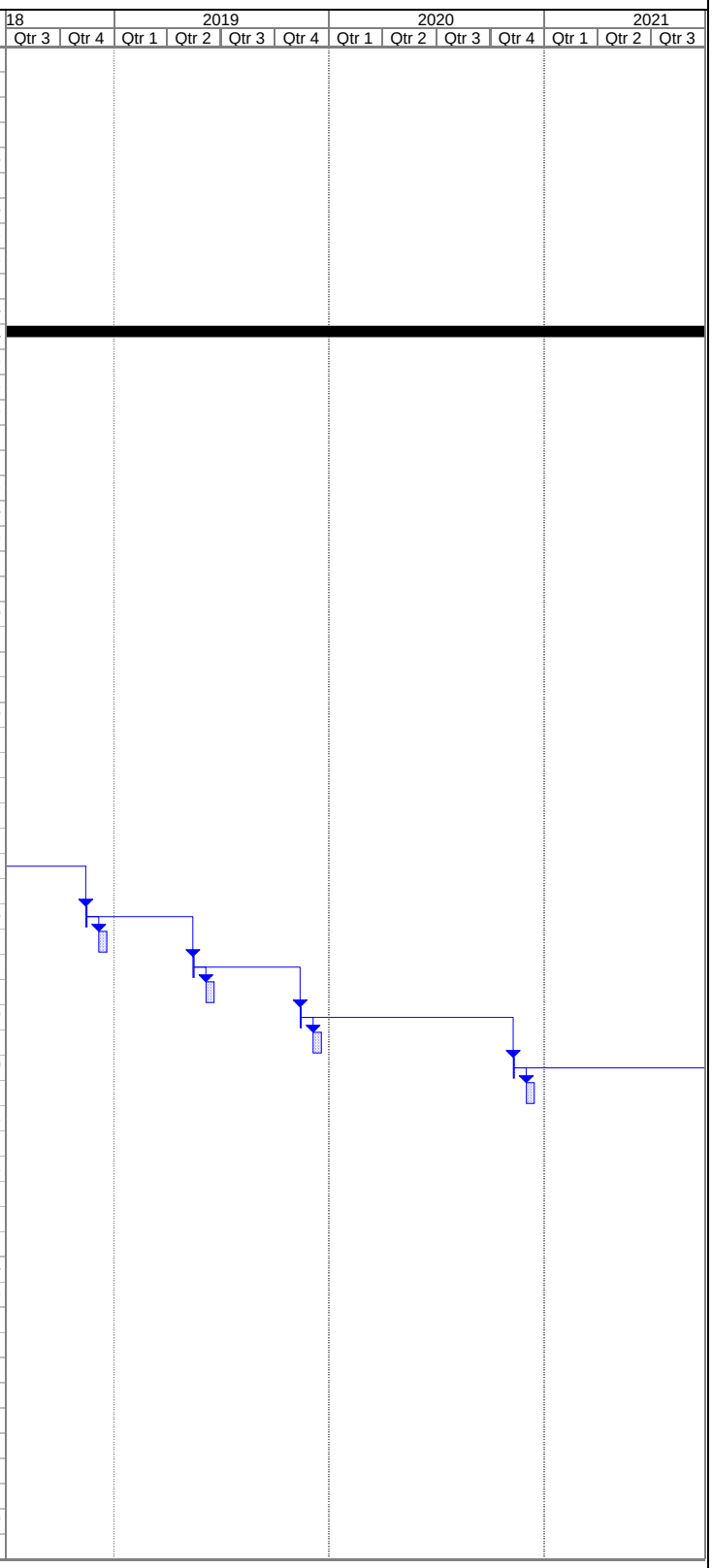

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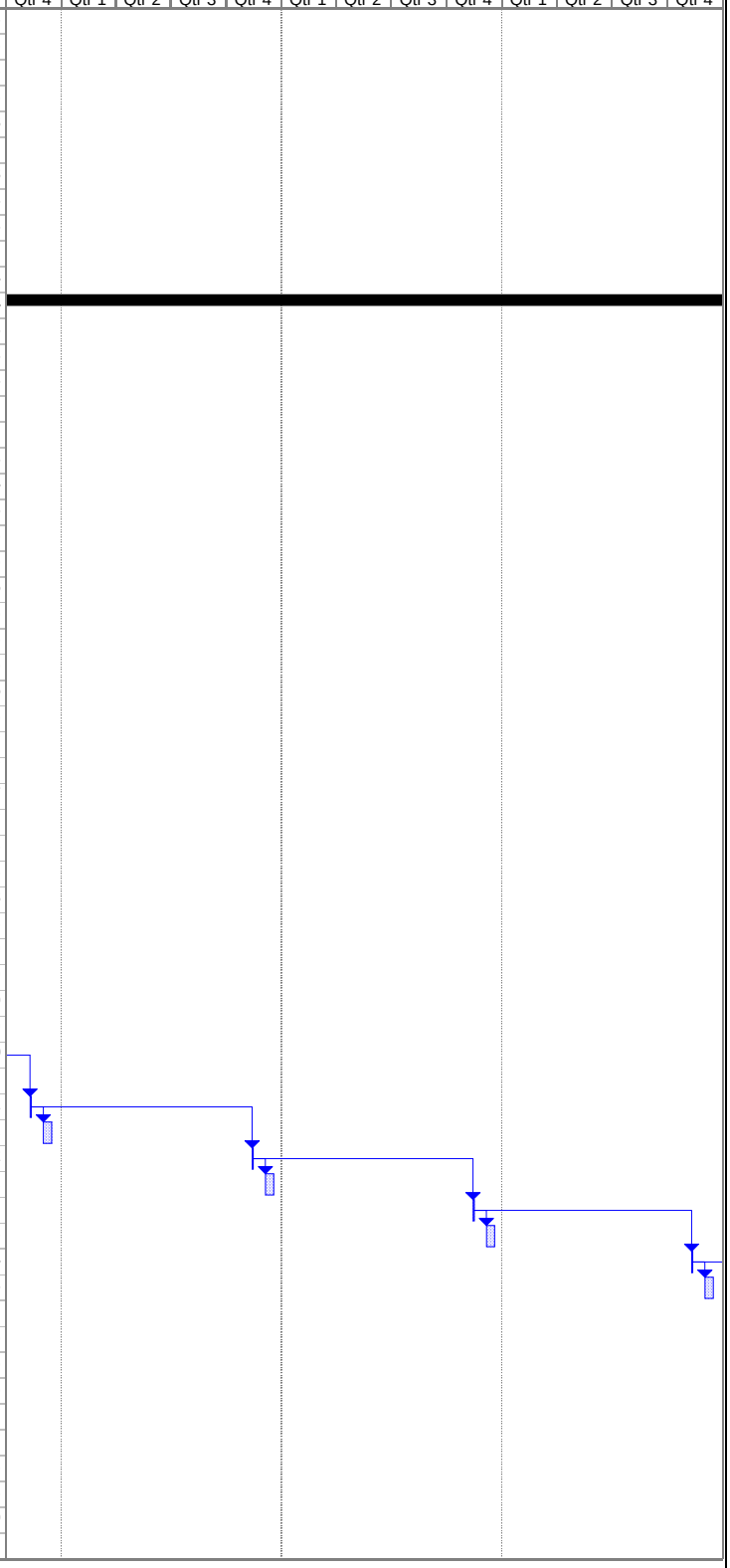

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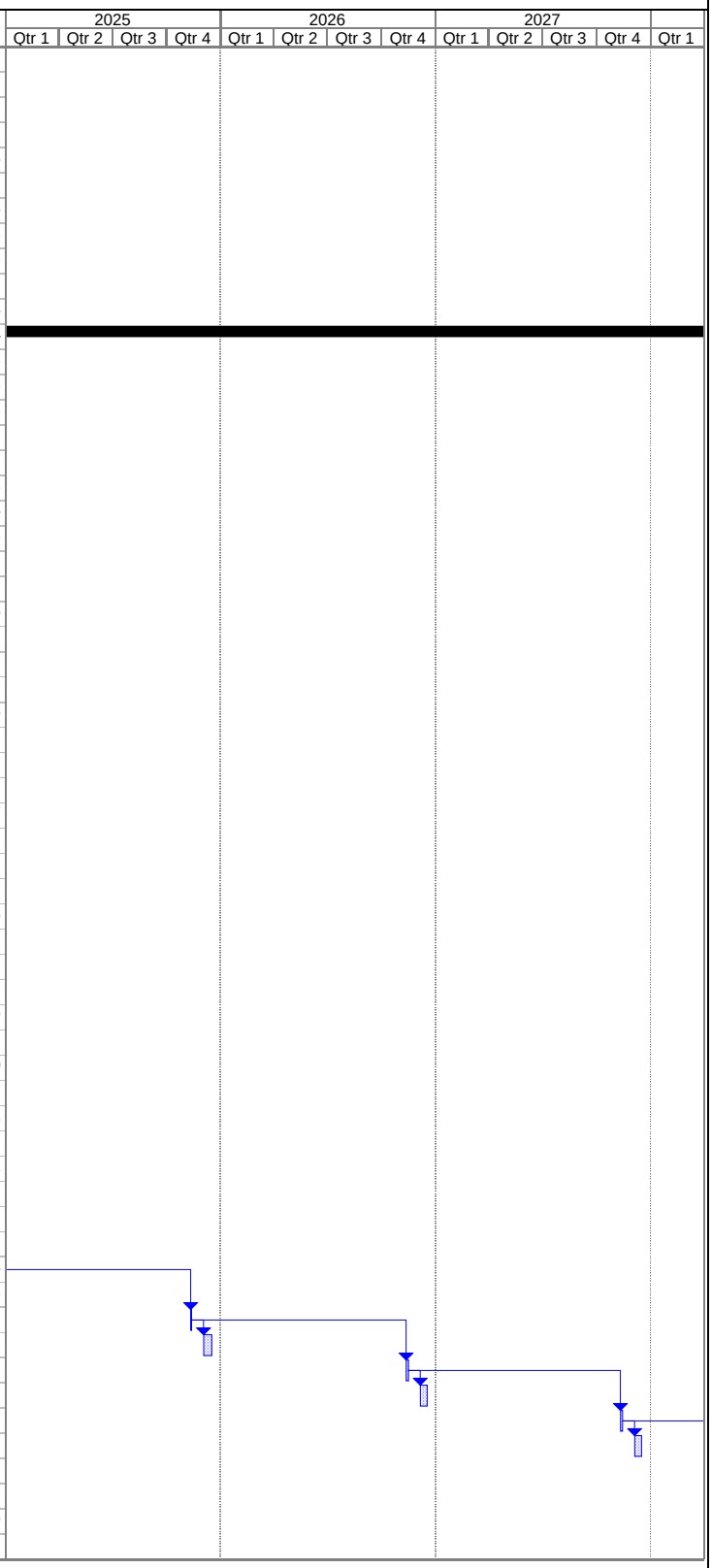
7	Bioaugmentation	2 days	Tue 12/10/13
8	Post-Injection Monitoring - 3 Month	1 day	Mon 2/24/14
9	Post-Injection Monitoring - 6 Months	1 day	Tue 5/20/14
10	Post-Injection Monitoring - 9 Months	1 day	Wed 8/20/14
11	Post-Injection Monitoring - 12 Months	1 day	Thu 11/20/14
12	**MNA Monitoring**	**4127 days**	**Mon 2/24/14**
13	Year 0 - Quarter 1	2 days	Mon 2/24/14
14	Year 0 - Quarter 1 Groundwater Monitoring Report	10 days	Tue 3/18/14
15	Year 0 - Quarter 2	2 days	Tue 5/20/14
16	Year 0 - Quarter 2 Groundwater Monitoring Report	10 days	Wed 6/11/14
17	Year 0 - Quarter 3	2 days	Wed 8/20/14
18	Year 0 - Quarter 3 Groundwater Monitoring Report	10 days	Thu 9/11/14
19	Year 0 - Quarter 4	2 days	Thu 11/20/14
20	Year 0 - Quarter 4 Groundwater Monitoring Report	10 days	Fri 12/12/14
21	Year 1 - Semiannual 1	2 days	Thu 5/21/15
22	Year 1 - Semiannual 1 Groundwater Monitoring Re	10 days	Fri 6/12/15
23	Year 1 - Semiannual 2	2 days	Thu 11/19/15
24	Year 1 - Semiannual 2 Groundwater Monitoring Re	10 days	Fri 12/11/15
25	Year 2 - Semiannual 1	2 days	Thu 5/19/16
26	Year 2 - Semiannual 1 Groundwater Monitoring Re	10 days	Fri 6/10/16
27	Year 2 - Semiannual 2	2 days	Thu 11/17/16
28	Year 2 - Semiannual 2 Groundwater Monitoring Re	10 days	Fri 12/9/16
29	Year 3 - Semiannual 1	2 days	Thu 5/18/17
30	Year 3 - Semiannual 1 Groundwater Monitoring Re	10 days	Fri 6/9/17
31	Year 3 - Semiannual 2	2 days	Thu 11/16/17
32	Year 3 - Semiannual 2 Groundwater Monitoring Re	10 days	Fri 12/8/17
33	Year 4 - Semiannual 1	2 days	Thu 5/17/18
34	Year 4 - Semiannual 1 Groundwater Monitoring Re	10 days	Fri 6/8/18
35	Year 4 - Semiannual 2	2 days	Thu 11/15/18
36	Year 4 - Semiannual 2 Groundwater Monitoring Re	10 days	Fri 12/7/18
37	Year 5 - Semiannual 1	2 days	Thu 5/16/19
38	Year 5 - Semiannual 1 Groundwater Monitoring Re	10 days	Fri 6/7/19
39	Year 5 - Semiannual 2	2 days	Thu 11/14/19
40	Year 5 - Semiannual 2 Groundwater Monitoring Re	10 days	Fri 12/6/19
41	Year 6 - Annual	2 days	Tue 11/10/20
42	Year 6 - Annual Groundwater Monitoring Report	10 days	Wed 12/2/20
43	Year 7 - Annual	2 days	Thu 11/11/21
44	Year 7 - Annual Groundwater Monitoring Report	10 days	Fri 12/3/21
45	Year 8 - Annual	2 days	Mon 11/14/22
46	Year 8 - Annual Groundwater Monitoring Report	10 days	Tue 12/6/22
47	Year 9 - Annual	2 days	Wed 11/15/23
48	Year 9 - Annual Groundwater Monitoring Report	10 days	Thu 12/7/23
49	Year 10 - Annual	2 days	Mon 11/11/24
50	Year 10 - Annual Groundwater Monitoring Report	10 days	Tue 12/3/24
51	Year 11 - Annual	2 days	Wed 11/12/25
52	Year 11 - Annual Groundwater Monitoring Report	10 days	Thu 12/4/25
53	Year 12 - Annual	2 days	Fri 11/13/26
54	Year 12 - Annual Groundwater Monitoring Report	10 days	Mon 12/7/26
55	Year 13 - Annual	2 days	Fri 11/12/27
56	Year 13 - Annual Groundwater Monitoring Report	10 days	Mon 12/6/27
57	Year 14 - Annual	2 days	Fri 11/10/28
58	Year 14 - Annual Groundwater Monitoring Report	10 days	Mon 12/4/28
59	Year 15 - Annual	2 days	Tue 11/13/29
60	Year 15 - Annual Groundwater Monitoring Report	10 days	Wed 12/5/29



Project: Eaton Selma Groundwater Re
Date: Tue 9/10/13

Task		Milestone		External Tasks	
Split		Summary		External Milestone	
Progress		Project Summary		Deadline	

GROUNDWATER REMEDIAL ACTION SCHEDULE
EATON SELMA
1100 EAST PRESTON STREET, SELMA, NORTH CAROLINA

ID	Task Name	Duration	Start
1	**Groundwater Remedial Action**	**311 days**	**Thu 9/12/13**
2	Utility Locate	1 day	Thu 9/12/13
3	Install Monitoring and Injection Wells	10 days	Mon 9/16/13
4	Baseline Sampling Event	2 days	Mon 10/7/13
5	Phase 1 CoBupH-Mg and EOS XR Injection and C	9 days	Mon 10/21/13
6	Phase 2 CoBupH-Mg and EOS XR Injection and C	9 days	Wed 11/13/13
7	Bioaugmentation	2 days	Tue 12/10/13
8	Post-Injection Monitoring - 3 Month	1 day	Mon 2/24/14
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52	Year 11 - Annual Groundwater Monitoring Report	10 days	Thu 12/4/25
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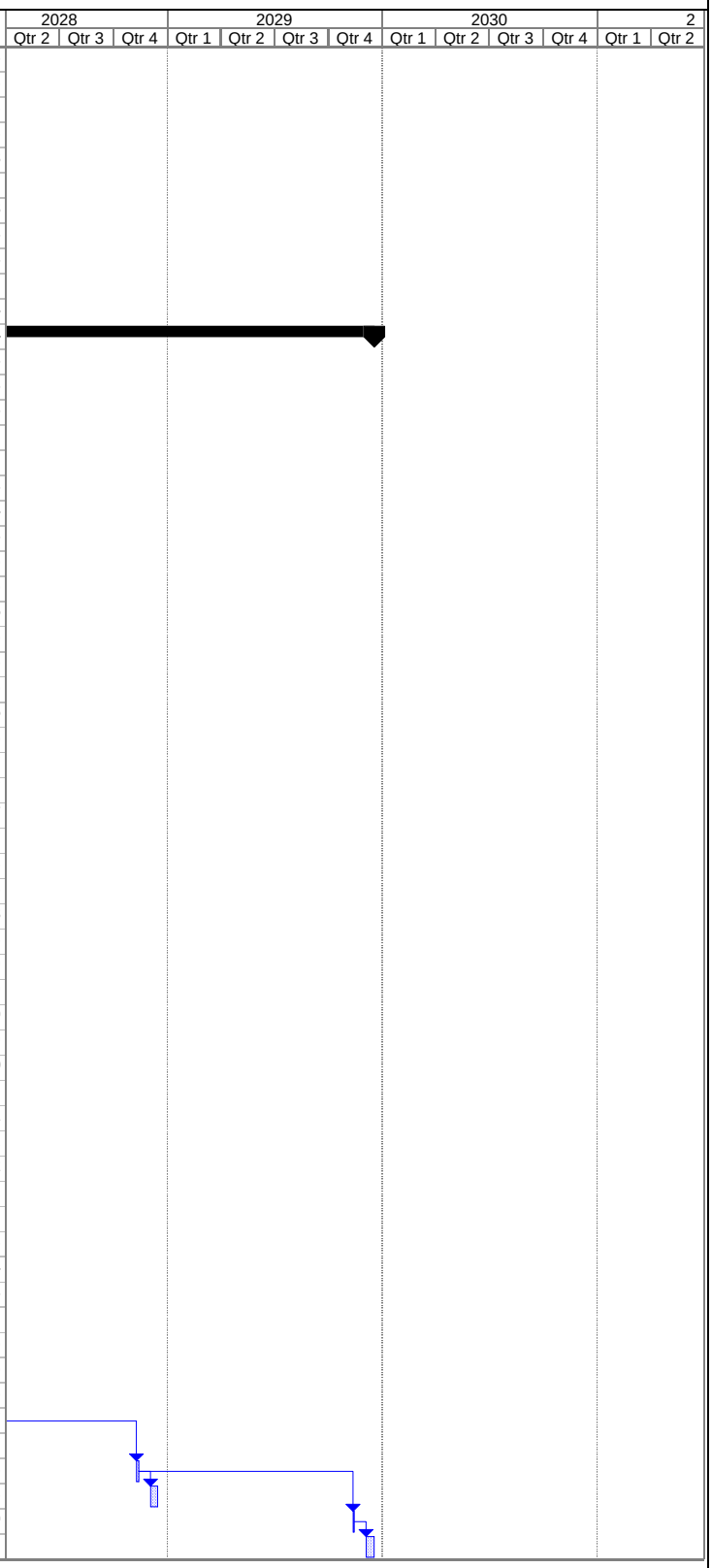

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